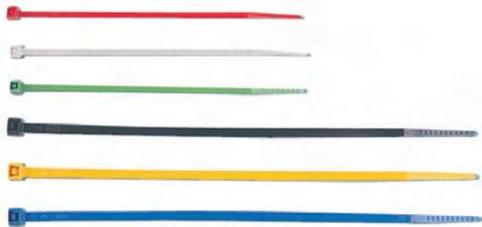


## Latest Products from...

### Cable Ties & Accessories

HellermannTyton



See page 84

### Harsh Environment Identification

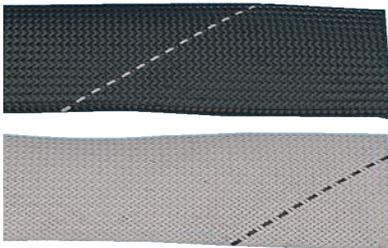
PANDUIT



See page 141

### Braided Sleeving

SPC pro-POWER



See page 108

### Heat Shrink Sleeving & Boots

Tyco Electronics



See page 113

## Contents

Page

Braided Sleeving	108
Cable Clips	104
Cable Glands	145
Cable Grommets	142
Cable Jointing Kits	155
Cable Management Systems	155
Cable Markers	134
Cable Protectors	158
Cable Reel Holders	162
Cable Routing Tools	157
Cable Sleeving	131
Cable Ties	84
Cable Tie Installation Tools	101
Cable Tie Mounts	94
Heat Shrink Guns	130
Heat Shrink Tubing	113
Insulating Tape	161
P-Clips	102
Snap Bushing & Hole Plugs	160
Stainless Steel Cable Ties	98
Strain Relief	160
Velcro Ties & Accessories	97

**Cable Ties**

**Pan-Ty® Natural and Weather Resistant Nylon 6.6 Cable Ties**



- Available in Natural Nylon 6.6 or Black Weather and UV Resistant Nylon 6.6
- One piece construction with multiple locking tooth design for consistent performance, greater strength and reliability
- High loop tensile strength exceeds industry standards
- UL Listed
- Lowest threading force of any one piece cable tie in the industry
- Bundle diameters up to 13" (330mm) or join together for larger diameters
- Miniature to standard cross sections feature a curved tip for easy threading and handling

- Finger tip grip assures positive grip & prevents tip from slipping out of head during threading

Mfrs. List No.	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)	Pack Size	Order Code	
						Natural	Black
<b>Sub-Miniature</b>							
PLT.6SM-C	71	1.8	15	36	100	129-6958	129-6997
<b>Miniature</b>							
PLT.7M-C	79	2.3	17	80	100	129-6959	—
PLT1M-C	99	2.5	22	80	100	129-6960	129-6998
PLT1.5M-C	142	2.5	32	80	100	129-6961	129-6999
PLT2M-C	203	2.5	51	80	100	129-6962	129-7000
<b>Intermediate</b>							
PLT1.5I-C	142	3.6	35	178	100	129-6963	129-7001
PLT2I-C	203	3.6	51	178	100	129-6964	129-7002
PLT2.5I-C	246	3.7	64	178	100	129-6965	129-7005
PLT3I-C	290	3.7	76	178	100	129-6967	129-7006
PLT4I-C	368	3.7	102	178	100	129-6968	129-7007
<b>Standard</b>							
PLT1S-C	122	4.8	25	222	100	129-6969	129-7008
PLT1.5S-C	157	4.8	38	222	100	129-6970	129-7009
PLT2S-C	188	4.8	48	222	100	129-6971	129-7010
PLT2.5S-C	249	4.8	64	222	100	129-6972	129-7011
PLT3S-C	292	4.8	76	222	100	129-6973	129-7012
PLT4S-C	368	4.8	102	222	100	129-6974	129-7013
PLT4.5S-C	394	4.8	114	222	100	129-6975	129-7014
PLT5S-C	445	4.8	127	222	100	129-6976	129-7015
<b>Light-Heavy</b>							
PLT6LH-CO	556	7.6	152	534	100	—	129-7017
PLT7LH-C	627	7.6	178	534	100	129-6979	129-7018
PLT8LH-C	701	7.6	203	534	100	129-6981	129-7019
<b>Heavy</b>							
PLT2H-L	206	7.6	51	534	50	129-6984	129-7021
PLT2.5H-L	251	7.6	64	534	50	129-6985	129-7022
PLT3H-L	290	7.6	76	534	50	—	129-7023
PLT4H-L	368	7.6	102	534	50	129-6987	129-7024
PLT5H-L	450	8.9	127	778	50	129-6988	129-7025
PLT6H-L0	530	8.9	152	778	50	—	129-7026
PLT8H-L	779	8.9	229	778	50	129-6990	129-7027
<b>Thousand Packs</b>							
PLT1M-M	99	2.5	22	80	1000	129-6993	129-7031
PLT1.5I-M	142	3.6	35	178	1000	129-6994	129-7032
PLT2S-M	188	4.8	48	222	1000	129-6995	129-7033

449791

Mfrs. List No.	Order Code	Price Per Pack			
		1+	5+	10+	50+
PLT.6SM-C	129-6958	1.17	1.11	1.07	1.01
PLT.7M-C	129-6959	1.42	1.36	1.31	1.24
PLT1M-C	129-6960	1.54	1.48	1.41	1.34
PLT1.5M-C	129-6961	2.32	2.23	2.14	2.03
PLT2M-C	129-6962	3.21	3.08	2.96	2.80
PLT1.5I-C	129-6963	2.87	2.76	2.64	2.51
PLT2I-C	129-6964	3.33	3.20	3.07	2.91
PLT2.5I-C	129-6965	5.77	5.54	5.31	5.05
PLT3I-C	129-6967	6.42	6.15	5.91	5.63
PLT4I-C	129-6968	7.15	6.86	6.58	6.25
PLT1S-C	129-6969	3.20	3.07	2.93	2.79
PLT1.5S-C	129-6970	3.34	3.21	3.08	2.92
PLT2S-C	129-6971	3.51	3.36	3.23	3.07
PLT2.5S-C	129-6972	6.02	5.77	5.54	5.26
PLT3S-C	129-6973	7.27	6.96	6.69	6.35
PLT4S-C	129-6974	7.59	7.28	6.98	6.64
PLT4.5S-C	129-6975	8.33	8.10	7.89	7.68
PLT5S-C	129-6976	8.89	8.52	8.18	7.78
PLT7LH-C	129-6979	29.81	28.61	27.46	26.10
PLT8LH-C	129-6981	35.66	34.24	32.86	31.22
PLT2H-L	129-6984	5.56	5.33	5.12	4.86
PLT2.5H-L	129-6985	5.87	5.64	5.40	5.13
PLT4H-L	129-6987	5.95	5.71	5.48	5.21
PLT5H-L	129-6988	10.68	10.24	9.83	9.34
PLT8H-L	129-6990	24.36	23.38	22.45	21.33
PLT1M-M	129-6993	11.84	11.36	10.90	10.36
PLT1.5I-M	129-6994	16.58	15.92	15.28	14.52
PLT2S-M	129-6995	32.03	30.73	29.51	28.03
PLT.6SM-CO	129-6997	1.28	1.23	1.17	1.11
PLT1M-CO	129-6998	1.63	1.56	1.50	1.42

Mfrs. List No.	Order Code	Price Per Pack			
		1+	5+	10+	50+
PLT1.5M-CO	129-6999	2.68	2.57	2.46	2.34
PLT2M-CO	129-7000	3.42	3.28	3.14	3.00
PLT1.5I-CO	129-7001	2.99	2.85	2.75	2.61
PLT2I-CO	129-7002	3.73	3.59	3.43	3.26
PLT2.5I-CO	129-7005	6.33	6.08	5.84	5.55
PLT3I-CO	129-7006	7.16	6.87	6.59	6.26
PLT4I-CO	129-7007	7.70	7.39	7.09	6.73
PLT1S-CO	129-7008	3.53	3.38	3.25	3.08
PLT1.5S-CO	129-7009	3.77	3.61	3.46	3.29
PLT2S-CO	129-7010	3.83	3.67	3.52	3.34
PLT2.5S-CO	129-7011	6.38	6.13	5.89	5.60
PLT3S-CO	129-7012	7.59	7.29	6.98	6.64
PLT4S-CO	129-7013	8.32	7.98	7.66	7.29
PLT4.5S-CO	129-7014	10.45	10.04	9.63	9.15
PLT5S-CO	129-7015	10.26	9.84	9.45	8.97
PLT6LH-CO	129-7017	23.87	22.92	21.99	20.90
PLT7LH-CO	129-7018	34.95	33.55	32.20	30.58
PLT8LH-CO	129-7019	41.11	39.46	37.89	36.00
PLT2H-L0	129-7021	5.94	5.70	5.47	5.20
PLT2.5H-L0	129-7022	6.09	5.84	5.61	5.33
PLT3H-L0	129-7023	6.19	5.93	5.70	5.42
PLT4H-L0	129-7024	7.26	6.95	6.68	6.34
PLT5H-L0	129-7025	11.22	10.75	10.33	9.82
PLT6H-L0	129-7026	22.10	21.20	20.35	19.34
PLT8H-L0	129-7027	28.07	26.94	25.87	24.56
PLT1M-M0	129-7031	12.32	11.83	11.35	10.78
PLT1.5I-M0	129-7032	16.73	16.06	15.41	14.64
PLT2S-M0	129-7033	34.84	33.42	32.07	30.49

**Standard Cable Ties**



- Versatile fasteners can be used in countless applications wherever you need to secure wire, cable, hoses or pipes.
- One-piece design means consistent quality and high reliability.
- All smooth edges, no risk of damage to the bundle.
- More serrations per tie - flush to the surface provides proper grip with our compromising the bundle.
- Curved tip allows easier installations, gets the job done faster

Length	Width	Maximum Bundle Dia.	Tensile Strength	
190mm	4.8mm	47mm	(lbs) 50	(kg) 22.6

385696/438873

100 Per Pack		Price Per Pack		
Colour	Order Code	1+	5+	5+
Red	117-9903	6.03	5.74	5.74
Orange	117-9904	6.03	5.74	5.74
Yellow	117-9905	6.03	5.74	5.74
Green	117-9906	6.03	5.74	5.74
Blue	117-9907	6.03	5.74	5.74
Purple	117-9908	6.03	5.74	5.74
Grey	117-9909	6.03	5.74	5.74
White	117-9910	6.03	5.74	5.74

**Looking for Tie Tools and Tie Mounts?**



See page 94

See page 101

**Standard 'T' Ties**



Standard 'T' Ties all feature internal serrations allowing for a positive hold onto cable, hose and pipe bundles. The design of the head guarantees a high tensile strength whilst allowing a very low insertion force, this combined with the bent tail design ensures a simple and quick installation.

- One-piece non-releasable **BS EN ISO 9002** cable ties moulded in Nylon 66
- Flame retardant to **UL94V-2**
- Manufactured to **US Mil. Spec. 23190 Drwg. 3367.**



Mfrs. List No.	Length	Width	Maximum Bundle Dia.	Tensile Strength	
				(lbs)	(kg)
T18R+colour	100	2.5	22	18	8.1
T18I+colour	144	2.5	33	18	8.1
T18L+colour	200	2.5	55	18	8.1
T30R+colour	150	3.5	35	30	13.6
T30L+colour	200	3.5	50	30	13.6
T30LL+colour	300	3.5	80	30	13.6
T50S+colour	150	4.8	36	50	22.7
T50R+colour	200	4.8	50	50	22.7
T50L+colour	300	4.8	81	50	22.7
T50LL+colour	390	4.8	109	50	22.7
T50M+colour	245	4.6	65	50	22.7
T50LL+colour	445	4.6	130	50	22.7
T120I+colour	300	7.6	75	120	54.4
T120R+colour	390	7.6	108	120	54.4
T120M+colour	465	7.6	130	120	54.4
T120XM+colour	600	7.6	175	120	54.4
T120L+colour	760	7.6	225	120	54.4
T150L+colour	600	7.6	175	120	54.4

449774

100 Per Pack		Price Per Pack				
Mfrs. List No.	Colour	Order Code	1+	5+	10+	50+
<b>2.5mm Width</b>						
T18R-NAT(100 PACK)	Natural	116-8935	2.07	1.89	1.85	1.81
T18R-BLACK(100 PACK)	Black	116-8943	2.97	2.67	2.24	1.95
T18R-RED(100 PACK)	Red	116-8967	3.30	2.83	2.60	2.32
T18R-BLUE(100 PACK)	Blue	116-8970	3.40	2.92	2.69	2.42
T18R-GREEN(100 PACK)	Green	116-8973	3.40	2.92	2.69	2.42
T18R-YELLOW(100 PACK)	Yellow	116-8977	3.25	2.79	2.56	2.29
T18I-NAT(100 PACK)	Natural	116-9078	3.15	2.92	2.80	2.69
T18I-BLK(100 PACK)	Black	116-9080	3.27	3.05	2.83	2.49
T18L-NAT(100 PACK)	Natural	116-9081	5.48	5.06	4.89	4.74
T18L-BLK(100 PACK)	Black	116-9082	5.53	5.16	4.79	4.26
<b>3.5mm Width</b>						
T30R-NAT(100 PACK)	Natural	116-8936	3.39	3.13	3.04	2.95
T30R-BLACK(100 PACK)	Black	116-8944	3.43	3.16	3.08	2.98
T30R-RED(100 PACK)	Red	116-8968	4.22	3.94	3.61	3.11
T30R-BLUE(100 PACK)	Blue	116-8971	4.22	3.94	3.61	3.11
T30R-GREEN(100 PACK)	Green	116-8974	4.22	3.94	3.61	3.11
T30R-YELLOW(100 PACK)	Yellow	116-8978	4.22	3.94	3.61	3.11
T30L-NAT(100 PACK)	Natural	116-9083	6.00	5.53	5.35	5.19
T30L-BLK(100 PACK)	Black	116-9084	5.87	5.46	5.11	4.51
T30LL-NAT(100 PACK)	Natural	116-8938	12.97	11.92	11.67	11.19
T30LL-BLK(100PACK)	Black	116-8946	10.72	9.62	8.61	7.55
<b>4.8mm Width</b>						
T50S-NAT(100 PACK)	Natural	116-9085	3.94	3.70	3.43	3.03
T50S-BLK(100 PACK)	Black	116-9086	3.82	3.57	3.34	2.94
T50R-NAT(100 PACK)	Natural	116-8937	4.06	3.83	3.75	3.58
T50R-BLACK(100 PACK)	Black	116-8945	4.37	4.03	3.91	3.79
T50R-RED(100 PACK)	Red	116-8969	5.22	4.99	4.41	3.97
T50R-BLUE(100 PACK)	Blue	116-8972	5.22	4.99	4.41	3.97
T50R-GREEN(100 PACK)	Green	116-8975	5.22	4.99	4.41	3.97
T50R-YELLOW(100 PACK)	Yellow	116-8979	5.22	4.99	4.41	3.97
T50I-NAT(100 PACK)	Natural	116-9088	12.14	11.18	10.34	9.04
T50I-BLK(100 PACK)	Black	116-9089	7.53	6.90	6.34	5.56
T50L-NAT(100 PACK)	Natural	116-8941	12.79	11.67	10.41	9.95
T50L-BLK(100 PACK)	Black	116-9090	10.68	9.83	9.52	8.99
T50L.NR3P	Red	129-6234	7.19	6.90	6.62	6.28
T50L.NY3P	Yellow	129-6236	7.19	6.90	6.62	6.28
T50L.NL3P	Blue	129-6238	7.19	6.90	6.62	6.28
T50L.NG3P	Green	129-6239	7.19	6.90	6.62	6.28
T50M.NN3P	Natural	129-6241	4.66	4.47	4.27	4.07
T50LL.NV3E	Natural	129-6242	7.19	6.90	6.62	6.28
T50M.NB3P	Black	129-6244	4.66	4.47	4.27	4.07
T50LL.NB3P	Black	129-6245	8.38	8.06	7.72	7.34
<b>7.6mm Width</b>						
T120I-NAT(100 PACK)	Natural	116-9091	12.69	11.81	11.43	11.07
T120I-BLK(100 PACK)	Black	116-9092	11.83	10.99	10.65	10.31
T120R-NAT(100 PACK)	Natural	116-8942	19.06	17.34	16.77	16.03
T120R-BLACK(100 PACK)	Black	116-8947	14.98	13.40	12.01	10.50
T120M-NAT(100 PACK)	Natural	116-9093	22.93	20.67	18.63	16.51
T120M-BLK(100 PACK)	Black	116-9094	22.78	20.97	20.29	18.87
T120R.NR3P	Red	129-6235	13.60	13.05	12.53	11.90
T120R.NY3P	Yellow	129-6237	13.60	13.05	12.53	11.90
<b>1000 Per Pack</b>						
T18R-NAT(1000 PACK)	Natural	116-8963	13.41	12.34	11.96	11.59
T18R-BLK(1000 PACK)	Black	116-9095	16.04	13.63	12.02	10.39
T30R-NAT(1000 PACK)	Natural	116-8965	17.77	15.89	14.21	12.44
T30R-BLK(1000)PACK)	Black	116-9096	16.69	14.92	13.36	11.69
<b>50 Per Pack</b>						
T120XM.NN2P	Natural	129-6246	10.23	9.83	9.42	8.94
T120L.NN2P	Natural	129-6247	12.61	12.10	11.61	11.03
T120XM.NB2P	Black	129-6248	10.23	9.83	9.42	8.94

HellermannTyton

Multi-Ties  
Natural and Black



These cable ties feature internal serrations allowing for a positive hold onto cable, hose and pipe bundles. The design of the head guarantees a high tensile strength whilst allowing a very low insertion force, this, combined with the bent tail design ensures a simple and quick installation.



- 500 ties in a storage jar
- Contents:
  - 100 x 2.5mm - Qty 200
  - 150 x 3.5mm - Qty 100
  - 200 x 4.6mm - Qty 200
- One-piece moulded Natural or Black Polyamide 6.6

526377

Mfrs. List No.	Colour	Order Code	Price Per Pack			
			1+	10+	25+	50+
HTJAR1BK	Black	167-4204	12.69	12.31	11.95	11.59
HTJAR1NT	Natural	167-4205	12.69	12.31	11.95	11.59

Cable Tie Bundle - Small Black  
HTC1BK

HellermannTyton



400 Black Hellermann Tyton T-series ties and applicator tool in a handy carry case.

- Ties injection moulded in high grade nylon 6.6
- Superior quality, design and manufacture
- High tensile strength
- One piece, all plastic construction
- Quick simple, fixing by hand or using included installation tool

Kit contents:	Type	Colour	Overall length	Strap width	Min tensile strength		Max cable diameter	Qty
					lbs	N		
T18R	Black	100mm	2.5mm	18	80	22mm	200	
T30R	Black	148mm	3.6mm	30	135	35mm	100	
T50R	Black	150mm	4.6mm	50	225	35mm	100	
MK20 Tool	Blue	-	-	-	-	-	1	

449736/454395

Mfrs. List No.	Order Code	Price Each		
		1+	10+	25+
HTC1BK	129-3516	19.57	18.78	18.04

Cable Tie Bundle - Small Natural  
HTC1NT

HellermannTyton



400 Natural Hellermann Tyton T-series ties and applicator tool in a handy carry case.

- Ties injection moulded in high grade nylon 6.6
- Superior quality, design and manufacture
- High tensile strength
- One piece, all plastic construction
- Quick, simple fixing by hand or using included installation tool

Kit contents:	Type	Colour	Overall length	Strap width	Min tensile strength		Max cable diameter	Qty
					lbs	N		
T18R	Natural	100mm	2.5mm	18	80	22mm	200	
T30R	Natural	148mm	3.6mm	30	135	35mm	100	
T50R	Natural	150mm	4.6mm	50	225	35mm	100	
MK20 Tool	Blue	-	-	-	-	-	1	

700 products added online every week



See our pick of the hottest products and latest technologies in 'What's New?' at [www.farnell.co.uk](http://www.farnell.co.uk)

**Cable Ties - continued**

**Cable Tie Bundle - Small Natural - continued**

HTC1NT - continued

449737

Mftrs. List No.	Order Code	1+	10+	25+	Price Each
HTC1NT	129-3517●	19.57	18.78	18.04	

**Cable Tie Bundle - Large Black**  
HTCC1



2500 Black Hellermann Tyton cable ties in a handy carry case.

- Ties injection moulded in high grade nylon 6.6
- Superior quality, design and manufacture
- High tensile strength
- One piece, all plastic construction
- Quick, simple fixing by hand or using included installation tool

**Kit contents:**

Type	Colour	Overall length	Strap width	Min tensile strength		Max cable diameter	Qty
				lbs	N		
LK2A-Black	Black	275mm	4.6mm	50	225	73mm	400
T18R	Black	100mm	2.5mm	18	80	22mm	600
T30R	Black	148mm	3.6mm	30	135	35mm	600
T50R	Black	150mm	4.6mm	50	225	35mm	600
T50L	Black	380mm	4.7mm	50	225	110mm	300

449739

Mftrs. List No.	Order Code	1+	10+	25+	Price Each
HTCC1	129-3519●	88.02	84.49	81.11	

**Cable Tie Bundle - Large Coloured**  
HTCC2



2300 Coloured Hellermann Tyton T-series ties and applicator tool in a handy carry case.

- Ties injection moulded in high grade nylon 6.6
- Superior quality, design and manufacture
- High tensile strength
- One piece, all plastic construction
- Quick, simple fixing by hand or using included installation tool

**Kit contents:**

Type	Colour	Overall length	Strap width	Min tensile strength		Max cable diameter	Qty
				lbs	N		
T18R	Natural	100mm	2.5mm	18	80	22mm	300
T18R	Red	100mm	2.5mm	18	80	22mm	300
T18R	Blue	100mm	2.5mm	18	80	22mm	300
T18R	Yellow	100mm	2.5mm	18	80	22mm	100
T30R	Black	148mm	3.6mm	30	135	35mm	300
T30R	Blue	148mm	3.6mm	30	135	35mm	200
T30R	Green	148mm	3.6mm	30	135	35mm	100

**Kit contents:**

		150mm	4.6mm	Min tensile strength			
T50R	Natural	150mm	4.6mm	50	225	35mm	100
T50R	Green	150mm	4.6mm	50	225	35mm	200
T50R	Yellow	150mm	4.6mm	50	225	35mm	200
T50R	Red	150mm	4.6mm	50	225	35mm	200
MK20 Tool	Blue	-	-	-	-	-	1

449738

Mftrs. List No.	Order Code	1+	10+	25+	Price Each
HTCC2	129-3518●	69.90	67.10	64.42	

**Cable Ties**



- One piece non-releasable cable ties manufactured in Natural or Black Nylon 66
- Flame retardant to **UL94V-2**

Operating temperature

-40°C to +85°C

Length	Width	Min. Tensile Strength (kg)	Max. Bundle Dia.	Natural Order Code	Black Order Code
102	2.5	8.1	25	—	134-4578
200	2.5	8.1	50	134-4568	134-4579
140	3.6	18.2	30	134-4569	134-4580
200	3.6	18.2	75	134-4570	134-4581
120	4.8	22.2	24	134-4571	134-4582
200	4.8	22.2	50	134-4573	—
250	4.8	22.2	75	134-4574	—
370	4.8	22.2	100	134-4575	134-4586
200	7.6	54.5	50	134-4576	134-4587
375	7.6	54.5	105	134-4577	134-4588

492471

100 Per Pack	Order Code	Price Per Pack			
		1+	5+	10+	25+
Natural	134-4568●	1.78	1.58	1.38	1.12
	134-4569●	1.76	1.62	1.38	0.88
	134-4570●	2.43	2.30	1.98	1.54
	134-4571●	1.96	1.76	1.54	1.30
	134-4573●	2.54	2.43	2.03	1.68
	134-4574●	3.17	2.81	2.49	2.01
	134-4575●	3.64	3.54	2.87	2.31
	134-4576●	6.81	6.03	5.35	4.35
	134-4577●	7.53	7.31	6.58	5.14
	134-4578●	1.06	0.95	0.57	0.48
Black	134-4579●	1.78	1.58	1.38	1.12
	134-4580●	1.76	1.62	1.38	0.88
	134-4581●	2.43	2.30	1.98	1.54
	134-4582●	1.96	1.76	1.54	1.30
	134-4586●	5.31	5.17	4.19	3.37
	134-4587●	6.81	6.03	5.35	4.35
	134-4588●	7.53	7.31	6.58	5.14

**Cable Ties**



- One piece non-releasable cable ties manufactured in Natural or Black Nylon 66
- Flame retardant to **UL94V-2**

Operating temperature -40°C to +85°C

208013

100 Per Pack	Order Code	Price Per Pack				
		1+	5+	10+	25+	
Natural	141-6039●	0.46	0.38	0.30	0.29	
	141-6040●	1.36	1.11	0.88	0.82	
	141-6041●	1.22	1.02	0.81	0.75	
	141-6043●	1.88	1.54	1.20	1.13	
	141-6044●	1.47	1.20	0.95	0.89	
	141-6045●	2.01	1.65	1.31	1.21	
	141-6046●	3.33	2.74	2.16	2.01	
	141-6047●	4.32	3.90	3.12	2.82	
	141-6048●	4.83	4.21	3.66	3.37	
	141-6049●	10.08	9.39	8.68	8.24	
	Black	141-6050●	0.46	0.38	0.30	0.29
		141-6051●	1.36	1.11	0.88	0.82
		141-6052●	1.22	1.02	0.81	0.75
		141-6053●	1.88	1.54	1.20	1.13
		141-6055●	1.47	1.20	0.95	0.89
141-6056●		2.01	1.65	1.31	1.21	
141-6057●		3.33	2.74	2.16	2.01	
141-6058●		4.32	3.90	3.12	2.82	
141-6059●		4.83	4.21	3.66	3.37	
141-6060●		10.08	9.39	8.68	8.24	

Canister Pack Cable Ties



Canister contents:

- CP-300**  
100 x 2.5: 100 each -Natural, 25 each - Red, Yellow, Blue, Green  
203 x 3.2: 50 each -Natural, 25 each - Red, Blue
- CP-400**  
100 x 2.5: 100 each -Red, Blue, Green  
203 x 3.2: 100 each -Natural
- CP-1000**  
100 x 2.5: 100 each -Natural, Black, Red, Yellow, Blue, Green, Purple, Grey, Orange, Neon Yellow

- BP-850**  
100 x 2.5: 100 each -Natural, Red, Yellow, Blue Green  
203 x 4.6: 300 each -Natural  
280 x 4.8: 50 each -Natural

Length	Width	Operating temperature -40°C to +85°C	
		Min. Tensile	Max. Bundle Dia.
100	3.2	18	55
203	3.2	18	55
203	4.6	22.7	55
280	4.8	22.7	81

208291

Mftrs. List No.	Order Code	Price Per Pack			
		1+	5+	10+	25+
CPR300 CANISTER PACK	126-8991	13.82	12.44	11.75	10.39
CPR400 CANISTER PACK	126-8992	17.05	15.32	14.49	12.83
CPHR1000 CANISTER PACK	126-8993	25.53	23.00	21.71	19.53
BPE850 CANISTER PACK	126-8994	25.52	22.98	21.70	19.51

PAN-TY® Miniature Cable Ties



- Nylon material for indoor use
- With perforated, tear-off tops
- Max bundle diameter of 21mm
- Max operating temperature of 85°C
- Overall length of 102mm
- Colour combinations match the universally accepted Even-Count Color Code
- Pocket pouch kit holds five (50-piece) packages and is made of a white vinyl



524529

Mftrs. List No.	Colour	Pack Qty	Order Code	Price Per Pack/Kit		
				1+	5+	10+
PLT1M-L6-10	Blue / White	50	165-7336	2.03	1.97	1.91
PLT1M-L3-10	Orange / White	50	165-7337	2.03	1.97	1.91
PLT1M-L5-10	Green / White	50	165-7338	2.03	1.97	1.91
PLT1M-L1-10	Brown / White	50	165-7340	2.03	1.97	1.91
PLT1M-L8-10	Slate / White	50	165-7341	2.03	1.97	1.91
<b>Pocket Pouch Kits</b>						
PPSX50F	Assorted	250	165-7335	20.15	19.55	18.96

Multiple Loop Cable Ties



- A fast and economical method to secure a harness and mount it to another harness cabinet or other convenient mounting point
- One-piece design and bent tip provides faster orientation
- Installs easily by hand
- Ideal for under hood hose and harness routing

Length	Width	Maximum Bundle Dia.	Tensile Strength	
			(lbs)	(kg)
190mm	4.8mm	46mm	50	22.6
300mm	4.8mm	76mm	50	22.6
375mm	4.8mm	104mm	50	22.6

385709/438327

Size	Colour	Order Code	Price Per Pack	
			1+	5+
190 x 4.8mm	Natural	117-9911	25.18	23.31
300 x 4.8mm	Natural	117-9912	31.08	28.75
375 x 4.8mm	Natural	117-9914	45.87	42.25

Wide Cable Ties



- No protruding head to cause injury since head is inverted
- No protruding tie tip to cause injury since the tip is trapped between the tie and the foam
- Tie will not slip on the foam since the head will indent the foam to remain captive
- Cannot over-tension tie causing bulges in the foam
- No need to heat weld the ends closed
- No cut-off scrap pieces to handle or pick up
- Locking wedge is protected from unlocking and from ultraviolet light exposure
- Wide tie body 8.9mm for improved aesthetics
- Weather Resistant Nylon 6.6
- Available in 6 ultraviolet colours (to match the foam) that will last 2-3 times longer than normal pigmented colours

Colour	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)	Order Code
UV Red	358	8.9	100	500	101-5567
UV Yellow	358	8.9	100	500	101-5568
UV Blue	358	8.9	100	500	101-5569
UV Light Blue	358	8.9	100	500	101-5570
UV Purple	358	8.9	100	500	101-5571
UV Silver	358	8.9	100	500	101-5572
UV Pink	358	8.9	100	500	101-5573
UV Red	389	8.9	115	550	101-5574
UV Yellow	389	8.9	115	550	101-5575
UV Green	389	8.9	115	550	101-5578

419691/436607

100 Per Pack Order Code	Price Per Pack	
	1+	3+
101-5567	12.72	11.45
101-5568	12.72	11.45
101-5569	12.72	11.45
101-5570	11.33	10.21
101-5571	12.72	11.45
101-5572	12.72	11.45
101-5573	12.72	11.45
101-5574	21.09	18.98
101-5575	21.09	18.98
101-5578	21.09	18.98

'Heavy Duty' Ties



- One piece non-releasable BS EN ISO 9002 approved cable ties moulded in Nylon 66
- Flame retardant to UL94V-2. 'T' series manufactured to US Mil. Spec.23190 Drwg.3367.

Mftrs. List No.	Length	Width	Maximum Bundle Dia.	Tensile Strength (lbs)	(kg)
LK2A+ Colour	270	4.8	73	50	22.7
LK5+ Colour	540	13	152	250	113.4
T150M+ Colour	540	8.9	150	150	68
T250X+ Colour	370	12.5	100	250	113.4

208069

100 Per Pack Mftrs. List No.	Colour	Order Code	Price Per Pack				
			1+	5+	10+	25+	50+
LK2A-NAT	Natural	116-8955	7.97	7.41	7.18	6.95	6.73
LK2A-BLACK	Black	116-8980	8.02	7.46	7.23	7.01	6.78
LK5-NAT	Natural	116-9097	29.83	28.22	26.60	24.06	22.99
LK5-BLK	Black	116-9098	29.09	27.52	25.95	23.46	22.44
T150M-NAT	Natural	116-9100	27.35	25.87	24.40	22.05	21.11
T150M-BLK	Black	116-9101	27.61	26.15	24.64	22.28	21.32
T250X-BLK	Black	116-9102	28.57	27.02	25.47	23.03	22.01

Over 480,000 products online



## Cable Ties - continued

### High Temperature Cable Ties



- Ties injection moulded in high grade nylon 4.6
- Improved performance in high temperature applications
- 150°C for 10,000 hours
- 135°C continuous working temperature
- Can withstand intense heat for very short periods
- Ideal for electronics applications

Mfrs. List No.	Colour	Overall length	Strap width	Min tensile strength lbs	N	Max cable diameter	Pack Qty
T50L.RN3P	Natural	300mm	4.8mm	50	222	81mm	100
T50L.RN3P	Natural	390mm	4.7mm	50	225	110mm	100
T120R.RN3P	Natural	390mm	7.6mm	120	535	105mm	100

449772

Mfrs. List No.	Order Code	1+	5+	10+	50+
T50L.RN3P	129-6229●	10.12	9.72	9.33	8.95
T50L.RN3P	129-6230●	13.36	12.83	12.31	11.82
T120R.RN3P	129-6232●	32.96	32.07	31.22	30.42

### Flame Retardant Cable Ties



- One-piece non-releasable ties
- Manufactured from low toxicity flame retardant material
- **BS EN ISO9002** approved, **U.S. Mil. Spec.23190 Drwg.3367**
- Applications, where it is essential to restrict spread of fire
- **UL94V-0** recognised

Length	Width	Max Bundle Dia.	Tensile Strength (lbs)	(kg)	Mfrs. List No.	Order Code
100	2.5	16	18	8.1	T18RV0(100 PACK)	116-9064
150	3.5	35	30	13.6	T30RV0(100 PACK)	116-9065
200	4.8	50	50	22.7	T50RV0(100 PACK)	116-9066
385	4.8	107	50	22.7	T50L.VN3P(100 PACK)	129-6233
390	7.6	108	120	54.4	T120RV0(100 PACK)	116-9067

449773

100 Per Pack L	W	Max. Dia.	Order Code	1+	5+	10+	25+	50+
100	2.5	16	116-9064●	4.33	4.11	3.91	3.50	3.33
150	3.5	35	116-9065●	9.05	8.59	8.13	7.34	7.01
200	4.8	50	116-9066●	16.51	15.67	14.75	13.37	12.79
385	4.8	107	129-6233●	21.47	20.61	19.58	18.60	17.66
390	7.6	108	116-9067●	49.42	46.77	44.08	39.86	38.11

### Weather Resistant Cable Ties



- One-piece non-releasable ties moulded in Black Nylon 66
- Flame retardant to **UL94V-2**
- UV stabilised

Operating temperature -40°C to +85°C (+105°C for short periods)

Mfrs. List No.	Length	Width	Maximum Bundle Dia.	Tensile Strength (lbs)	(kg)
T18L-W	145	2.5	36	18	8.1
T18R-W	100	2.5	22	18	8.1
T30L-W	200	3.5	49	30	13.6
T30R-W	130	3.5	35	30	13.6
T40R-W	180	4	42	40	18.1
T40L-W	260	3.3	65	40	18.1
T50S-W	150	4.6	36	50	22.7
T80R-W	205	4.7	50	80	36.2
T80L-W	390	4.6	108	80	36.2
111-15060	360	7.6	100	150	68
LK5-W	540	13.2	152	250	113.4

208349

100 Per Pack Mfrs. List No.	Order Code	1+	5+	10+	50+
T18L-W	851-759●	2.89	2.64	2.42	2.22
T18R-W	851-723●	1.79	1.60	1.48	1.38
T30L-W	842-310●	4.53	4.12	3.78	3.48
T30R-W	851-772●	3.24	2.93	2.70	2.49
T40R-W	842-321●	4.17	3.79	3.47	3.22
T40L-W	842-333●	7.41	6.72	6.17	5.69
T50S-W	851-875●	4.95	4.75	4.58	4.41
T80R-W	851-826●	4.23	3.84	3.43	3.26
T80L-W	851-851●	11.53	10.49	9.61	8.86
111-15060	142-2975●	15.28	13.89	12.73	11.75

50 Per Pack LK5-W	Order Code	32.40	29.47	27.02	24.92
LK5-W	851-930●	32.40	29.47	27.02	24.92

### Weather Resistant Cable Ties



- High quality, durable Black ties
- Specifically manufactured for use in outdoor environments
- Manufactured from nylon 6/6 with added carbonate A
- Excellent resistance to ultra violet light
- **UL** recognised (E97527)

248702

100 Per Pack L	W	Order Code	1+	Price Per Pack 10+	50+
100	2.5	126-8999●	0.50	0.43	0.41
120	4.8	126-9000●	1.11	1.03	0.90
142	2.5	126-9001●	0.64	0.59	0.52
142	3.2	126-9002●	0.88	0.85	0.78
165	2.5	126-9003●	0.84	0.80	0.72
160	4.8	126-9004●	1.37	1.19	1.11
203	2.5	126-9005●	1.00	0.85	0.79
200	3.6	126-9006●	1.37	1.21	1.14
203	4.6	126-9007●	1.49	1.36	1.29
292	3.6	126-9009●	1.97	1.86	1.78
300	4.8	126-9011●	2.38	2.18	1.99
370	3.6	126-9012●	2.47	2.28	2.10
370	4.8	126-9013●	2.86	2.72	2.52
380	7.6	126-9014●	6.22	5.81	5.59

### Belt Outdoor Cable Ties



- Threads like a belt at 180 degrees, but has the strength of a conventional tie.
- Allows for the lowest profile head, some 35% less than standard ties.
- Avoids snags and drastically reduces bundle size.
- Protects adjacent bundles and avoids injury to your teams arms and hands.
- UV black weather resistant nylon 6.6 is ideal for outdoor applications.
- Ideal for use with aerial support tie

Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)	Order Code
173	8.9	40	552	101-5560
257	8.9	65	552	101-5561
358	8.9	100	552	101-5562
389	8.9	115	552	101-5563
525	8.9	150	710	134-6974

419690/436606

100 Per Pack Mfrs. List No.	Order Code	1+	Price Per Pack 3+
IT940-CO	101-5560●	6.41	5.78
IT965-CO	101-5561●	8.97	8.08
IT9100-CO	101-5562●	12.72	11.45
IT9115-CO	101-5563●	21.09	18.98
HV9150-CO	134-6974●	25.90	23.29

### Heat Stabilised Cable Ties



- One-piece non-releasable ties moulded in Natural Nylon 66
- Flame retardant to **UL94V-2**

Operating temperature -40°C to +105°C (+145°C for short periods)

Mfrs. List No.	Length	Width	Maximum Bundle Dia.	Tensile Strength (lbs)	(kg)
T18L-HS	144	2.5	36	18	8.1
T18R-HS	102	2.5	22	18	8.1
T18L-HS	200	2.5	49	18	8.1
T30R-HS	150	3.6	35	30	13.6
T50S-HS	151	4.8	36	50	22.7
T40R-HS	179	4	42	40	18.1
T30L-HS	200	3.6	49	30	13.6
T30LR.HN3P	260	3.3	65	40	18.1
T80R-HS	204	4.7	50	80	36.2
T150R-HS	360	7.5	100	150	68
T50L-HS	302	4.8	81	50	22.7
LK5-HS	540	13	152	250	113.4

208350

100 Per Pack Mfrs. List No.	Order Code	1+	Price Per Pack 5+	10+	50+
T18R-HS	851-711●	3.68	3.17	2.75	2.20
T18L-HS	851-735●	4.18	3.59	3.19	2.53
T30R-HS	851-760●	3.79	3.25	2.83	2.29
T50S-HS	851-863●	5.89	5.02	4.43	3.53
T40R-HS	851-796●	4.77	4.40	4.25	4.10

100 Per Pack Mftrs. List No.	Order Code	Price Per Pack			
		1+	5+	10+	50+
T30L-HS	851-784●	5.30	4.46	3.93	3.15
T30LR.HN3P	851-802●	10.32	8.85	7.74	6.19
T80R-HS	851-814●	5.83	4.97	4.29	3.46
T50I-HS	851-838●	18.76	17.31	15.35	13.52
LK5-HS	851-929●	55.39	50.90	47.31	44.02

Outside Serated Cable Ties



Outside serated cable ties are ideal for use in environments where soft insulation or thin-walled wires or cable are being installed and the need for a cable tie that won't cause damage to the cable insulation is required. The design offers high tensile strengths, low insertion forces and a smooth surface to the cable insulation - minimising any indentation or damage. The curved head allows the tie to follow the contours of the cable and takes up less space than conventional designs.

- Outside serated design
- Manufactured from polyamide 6.6 heat stabilised (PA66HS)
- UL94 V2 recognised
- Applications, where thin walled or soft insulation wires and cables are being installed
- Operating temperature: -40°C to +105°C continuous, (+145°C for 500h)

Length	Width	Max Bundle Dia.	Tensile Strength (lbs)	(kg)	Mftrs. List No.	Order Code
100mm	2.5mm	1.6 - 20mm	18	8.1	T18ROS.HB3P	129-6252
145mm	3.4mm	1.6 - 35mm	30	13.6	T30ROS.HB3P	129-6253
200mm	3.4mm	1.6 - 50mm	30	13.6	T30LOS.HB3P	129-6254
150mm	4.6mm	1.6 - 35mm	50	22.7	T50SOS.HB3P	129-6256
200mm	4.6mm	1.6 - 50mm	50	22.7	T50ROS.HB3P	129-6257
245mm	4.6mm	1.6 - 85mm	50	22.7	T50MOS.HB3P	129-6258
384mm	4.6mm	1.6 - 110mm	50	22.7	T50LOS.HB3P	129-6259

449775

100 Per Pack Mftrs. List No.	Order Code	Price Per Pack			
		1+	5+	10+	50+
T18ROS.HB3P	129-6252●	2.96	2.78	2.69	2.56
T30ROS.HB3P	129-6253●	3.60	3.44	3.30	3.18
T30LOS.HB3P	129-6254●	4.68	4.40	4.26	4.03
T50SOS.HB3P	129-6256●	4.73	4.53	4.34	4.17
T50ROS.HB3P	129-6257●	5.12	4.90	4.70	4.51
T50MOS.HB3P	129-6258●	9.90	9.49	9.12	8.75
T50LOS.HB3P	129-6259●	11.37	10.90	10.47	10.06

Elastomeric Cable Ties



Elastomeric cable ties provide reliable bundling of high performance fiber and copper cables, while maintaining network data integrity by protecting against over-tensioning. The soft material has no sharp edges, promoting worker safety. These flexible ties cinch the cable bundle, preventing lateral movement along the bundle. The UL 94V-0 flammability rating and halogen-free construction ensures compliance with environmental and industry requirements. The releasable design accommodates frequent moves, adds, and changes (MACs). Elastomeric cable ties ensure reliability, scalability, and aesthetics for network applications.



Length (mm)	Width (mm)	Max Bundle Dia. (mm)	Min. Loop Tensile Strength (N)
216	12.7	59.7	80

524524

100 Per Pack Mftrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
ERT2M-C20	165-7322●	48.30	46.85	45.44

In-Line Cable Ties



- Low profile head design prevents protrusion of cut-off tie and reduces overall bundle size
- Fully rounded edges on head and strap so no sharp edges come in contact with cable insulation jacket
- Parallel-entry design that threads like a belt (180° entry)
- "Finger grip" shaped head ensures positive grip during threading of tie

	Material	Length (mm)	Width (mm)	Max. Bundle Dia.(mm)	Min. Loop Tensile Str.(N)	Order Code
Standard	Nylon 6.6	211	4.8	48	222	101-5551
Standard	Nylon 6.6	292	4.8	76	222	101-5553
Standard	Nylon 6.6	373	4.8	102	222	101-5554
Standard	Weather Resistant Nylon	292	4.8	76	222	101-5557
Standard	Weather Resistant Nylon	373	4.8	102	222	101-5558

419686/436605

100 Per Pack Mftrs. List No.	Order Code	Price Per Pack		
		1+	3+	5+
ILT2S-C	101-5551●	6.94	6.24	
ILT3S-C	101-5553●	10.26	9.25	
ILT4S-C	101-5554●	12.22	11.00	
ILT3S-C0	101-5557●	11.82	10.65	
ILT4S-C0	101-5558●	14.06	12.64	

TY-RAP™ Cable Ties



Unique Feature



- Unique locking device: Stainless steel barb provides grip of steel at any diameter.
- User friendly: Turned up tapered tail speeds up assembly.
- Non-slip ribbed and stippled inner surface prevents tie rotation on bundle.
- Material selection: Natural coloured Nylon 66 for internal use. Black UV stabilised Nylon 66 for internal or external use.

Maximum Bundle Dia.	Length	Width	100 Pack Mftrs. List No.	1000 Pack Mftrs. List No.
16	92	2.3	TY523MR/MXR	TYB23M/MXR
32	140	3.6	TY524MR/MXR	TYB24M/MXR
44	186	4.7	TY525MR/MXR	TYB25M/MXR
76	281	3.6	TY526MR/MXR	TY26M/MXR
89	340	7.7	TY527MR/MXR	TY27M/MXR
102	360	4.8	TY528MR	TY28M

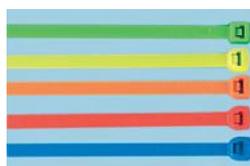
100 Per Pack Mftrs. List No.	Order Code	Price Per Pack		
		1+	3+	5+
Natural				
TY523MR	123-0919●	6.45	5.86	5.67
TY524MR	123-0921●	7.46	6.79	6.58
TY525MR	123-0922●	6.93	6.52	5.97
TY526MR	123-0923●	15.92	15.09	13.68
TY527MR	123-0924●	28.07	25.33	22.93
TY528MR	123-0925●	20.09	19.05	17.24
Black				
TY523MXR	123-0926●	5.84	5.05	4.76
TY524MXR	123-0927●	8.11	7.43	6.82
TY525MXR	123-0928●	10.11	9.23	8.51
TY526MXR	123-0929●	16.84	15.79	14.11
TY527MXR	123-0930●	36.35	33.93	31.22
TY528MXR	123-0932●	22.33	21.17	19.05

500 Per Pack Mftrs. List No.	Order Code	Price Per Pack			
		1+	5+	10+	30+
Natural					
TY27M	121-2487●	150.77	141.25	126.67	115.47
Black					
TY27MX	121-2493●	161.51	151.27	135.75	123.59

224078

1000 Per Pack Mftrs. List No.	Order Code	Price Per Pack				
		1+	10+	30+	50+	100+
Natural						
TYB23M	121-2482●	19.89	17.31	15.41	14.54	13.24
TYB24M	121-2483●	30.14	27.83	25.85	24.13	22.64
TYB25M	121-2484●	40.11	35.18	31.41	29.47	26.91
TY26M	121-2486●	88.09	78.54	70.84	64.60	59.25
		1+	5+	10+	30+	
TY28M	121-2488●	105.79	99.74	89.23	80.80	
Black						
TYB23MX	121-2489●	25.39	21.96	19.82	18.73	17.04
TYB24MX	121-2490●	37.36	32.94	29.45	27.31	25.07
TYB25MX	121-2491●	47.25	41.38	36.82	34.73	31.68
TY26MX	121-2492●	97.84	84.70	76.30	71.73	65.59
		1+	5+	10+	30+	
TY28MX	121-2494●	112.98	105.67	94.87	86.46	

Fluorescent Cable Ties



- One piece non-releasable fluorescent cable ties moulded in Nylon 66
  - Flame retardant to UL94V-2
- | Length | Width | Max. Bundle Dia. | Tensile Strength (lbs) |
|--------|-------|------------------|------------------------|
| 218    | 3.3   | 50               | 40                     |

## Cable Ties - continued

### Fluorescent Cable Ties - continued

227491

100 Per Pack	Colour	Order Code	Price Per Pack				
			1+	5+	10+	25+	50+
P-8-40FL-11-C	Pink	127-9784	4.33	4.07	3.80	3.36	2.87
P-8-40FL-16-C	Orange	127-9787	3.43	3.22	3.01	2.66	2.28
P-8-40FL-17-C	Yellow	127-9788	4.33	4.07	3.80	3.36	2.87
P-8-40FL-18-C	Green	127-9789	4.33	4.07	3.80	3.36	2.87
P-8-40FL-20-C	Blue	127-9790	4.33	4.07	3.80	3.36	2.87

### Multi-Ties

Natural and Black



- 500 ties in a plastic storage jar
- Contents:
  - 200-111 x 2.4mm
  - 200-142 x 3.6mm
  - 100-188 x 4.7mm
- One-piece moulded Natural or UV resistant Black Nylon 6.6

H=266, W=114, D=108

208264

500 Per Jar	Mftrs. List No.	Order Code	Price Per Jar				
			1+	10+	25+	50+	100+
Natural	JTN-500	121-2480	13.10	12.41	10.72	9.88	8.96
Black	JTB1-500	121-2481	13.74	13.02	11.25	10.35	9.40

### Twist Tail™ Cable Tie



- Quick and easy to install, no tools required
- Strong, made of Polyamide 6.6, with 220N minimum tensile strength
- Safe, tail breaks off neat and clean, with no sharp edges
- General purpose applications, indoor and outdoor
- UL recognised
- Available in 3 different lengths and 2 colours (white and UV-resistant black)

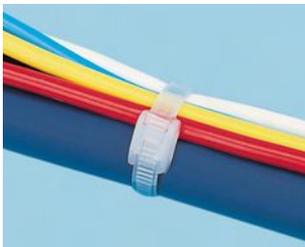
Mftrs. List No.	Colour	Length (mm)	Width (mm)	Thickness (mm)	Max. bundle dia. (mm)
TT-7-50-9-C	White	180	4.7	1.4	44
TT-7-50-0-C	Black	180	4.7	1.4	44
TT-11-50-9-C	White	282	4.7	1.4	76
TT-11-50-0-C	Black	282	4.7	1.4	76
TT-14-50-9-C	White	358	4.7	1.4	102
TT-14-50-0-C	Black	358	4.7	1.4	102

516555

100 Per Pack	Mftrs. List No.	Order Code	Price Per Pack		
			1+	25+	50+
TT-7-50-9-C		162-0816	4.11	3.86	3.61
TT-7-50-0-C		162-0817	4.11	3.86	3.61
TT-11-50-9-C		162-0818	9.26	8.80	8.34
TT-11-50-0-C		162-0819	9.26	8.80	8.34
TT-14-50-9-C		162-0820	10.56	10.02	9.48
TT-14-50-0-C		162-0821	10.56	10.02	9.48

### Safe-Ty™ Low Profile Ties

Natural and Black



- Low profile, contoured head reduces bundle clearance, enhances harness appearance
- Safe-guard wall on head eliminates exposure to sharp edges
- Curved saddle back design improves fit around bundle
- Natural or UV resistant Black Nylon 6.6 moulding

Maximum Bundle Dia.	Tensile Strength (kg)	Length	Width	Natural		Black	
				Mftrs. List No.	Order Code	Mftrs. List No.	Order Code
25.4	8.16	118.11	2.41	SF100-18-100	121-2522	SF100-18X-100	121-2525
44.4	22.68	195.58	4.74	SF175-50-100	121-2523	SF175-50X-100	121-2526
50.8	8.16	205.74	2.41	SF200-18-100	121-2524	SF200-18X-100	121-2528

208304

100 Per Pack	Mftrs. List No.	Order Code	Price Per Pack		
			1+	3+	5+
Natural	SF100-18-100	121-2522	2.020	1.920	1.840
	SF175-50-100	121-2523	2.550	2.420	2.100
	SF200-18-100	121-2524	3.200	3.120	3.050
Black	SF100-18X-100	121-2525	2.280	2.150	1.890
	SF175-50X-100	121-2526	1.750	1.660	1.533
	SF200-18X-100	121-2528	3.370	3.290	3.200

### HYPER-V™ In-Line Cable Ties and Mounts



- Fixed and flexible 2-wedge locking design
- Teeth on both sides of the cable tie body
- Releasable head position for temporary bundling
- In-Line tie design
- Rounded edges
- Bending serrations on the tip of the tie
- Manufactured in weather resistant Nylon 6.6

Mftrs. List No.	Length (mm)	Width (mm)	Max Bundle Dia. (mm)	Tensile Strength (N)
HV940-C0	173	8.9	40	552
HV965-C0	265	8.9	65	710
HV9100-C0	367	8.9	100	710

- Retaining tab within window
- Low profile design
- Rounded edges
- Barbs on masonry push mount
- Manufactured in weather resistant Nylon 6.6

Mftrs. List No.	Mounting Method	Length (mm)	Width (mm)	Hole Diameter (mm)
HVMPM-08-C0	Tree Bard	35.1	-	8.0
HVTM-06-C0	M6 Screw or Tapered Rivet	20.6	17.3	5.9

485486

100 Per Pack	Mftrs. List No.	Order Code	Price Per Pack		
			1+	5+	10+
HV940-C0		147-1655	7.79	7.40	7.03
HV965-C0		147-1656	10.91	10.36	9.85
HV9100-C0		147-1657	15.32	14.54	13.82
HVMPM-08-C0		147-1660	18.42	17.50	16.62
HVTM-06-C0		147-1662	14.76	14.03	13.32

### Cable Tray Ties



- Simply break the joining strip
- Put into tray slots and twist through 90°
- Black Polyamide 6.6
- Range of CTF and RCF ties can accommodate both UK and European design of Cable Tray

Mftrs. List No.	Overall Length (mm)	Strap Width (mm)	Min. Tensile Strength		Recommended Tensioning Tool	Pack Qty.
			Lbs	N		
CTF120	320	7.6	120	535	MK6/MK9/MK21	100
CTF250	355	13.0	250	1115	MK6/MK9	100

\*For cable tray slots at 90° angle.

490791

Mftrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
CTF120	150-3049	24.32	23.59	22.40
CTF250	150-3050	15.52	15.05	14.29

### Speedy Tie®



The SpeedyTie® can be used many times because of its removable, patented trigger. Also this is a heavy duty releasable tie that can bear loads of up to 888N (200lbs). With a length of 750mm it suits a wide variety of applications and is easy to handle even when wearing work gloves. Any excess tail can be easily 'tucked away' in a second slot on the head. These ties are available in 'high visibility' yellow and in weatherproof black.

The versatility of the SpeedyTie® means that it is suitable for a multitude of applications. Originally developed for the 'offshore' industries, other uses include: construction, electrical installations, scaffolding sheet installations, exhibitions, trade fairs, and many more...

- Operating Temperature: -40°C to 85°C Continuous (105°C for 500h)
- Length = 750mm
- Width = 13mm
- Maximum Bundle Diameter = 210mm
- Supplied in Packs of 5

449785

Mftrs. List No.	Order Code	Price Per Pack			
		1+	6+	12+	24+
SPEEDY TIE, YELLOW	129-6273	6.85	6.57	6.31	6.06
SPEEDY TIE, BLACK	107-9547	7.09	6.80	6.54	6.27

Releasable Cable Ties

HellermannTyton



New



The SRT range offers solutions to numerous bundling applications. The soft, flexible material makes these ties particularly suitable for use on data and fibre-optic cables. The elasticity of the material makes them ideal for securing young trees to support poles, and other applications within the gardening and landscaping industry.

Manufactured from a soft, tear-resistant thermoplastic polyurethane these ties have several unique features. UV and weather resistant, strong yet elastic and suitable for temperatures as low as -40°C. The SRT ties are releasable and reusable which is ideal for bundling cables in temporary applications such as musical events, Theatres, cable harnesses.

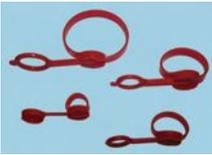
Mfrs. List No.	Length (mm)	Width (mm)	Bundle Dia. (mm)	Tensile Strength (N)
SOFTFX XS	180	7	45	57
SOFTFX S	260	7	79	57
SOFTFX M	260	11	55	123
SOFTFX L	340	11	90	123
SOFTFX XL	580	28	150	360
SOFTFX XXL	880	28	240	360

526375

Mfrs. List No.	Pack Qty	Order Code	1+	10+	25+	50+
SOFTFX XS	16	167-4196	5.23	5.08	4.92	4.77
SOFTFX S	12	167-4197	5.23	5.08	4.92	4.77
SOFTFX M	8	167-4198	5.23	5.08	4.92	4.77
SOFTFX L	6	167-4199	5.23	5.08	4.92	4.77
SOFTFX XL	3	167-4200	5.23	5.08	4.92	4.77
SOFTFX XXL	2	167-4203	5.23	5.08	4.92	4.77

Releasable Cable Tie

DELTRON Components



- Flexible red polyethylene releasable cable tie (twist and pull)
- Loop can be used to pull the tie tight around bundle
- Tied bundle can also be hung using loop
- Fitted as standard on all Deltron pre-cut cable lengths

Mfrs. List No.	Overall Length (mm)	Width (mm)	Bundle Size	
			Min (mm)	Max (mm)
075-0100	85	14.5	2	10
075-0200	105	15.5	10	14
075-0300	135	17.5	12	24
075-0600	180	23	15	36

494135

10 Per Pack	Mfrs. List No.	Order Code	1+	5+	10+	25+
	075-0100	152-0020	6.13	5.82	5.52	5.24
	075-0200	152-0021	5.18	4.92	4.67	4.43
	075-0300	152-0022	3.31	3.16	3.00	2.86
	075-0600	152-0023	3.94	3.74	3.54	3.36

Releasable Cable Tie

DELTRON Components



A flexible plastic double locking cable tie that is re-useable. These clips provide extra security for items that are subject to heavy use. After inserting the clip, the loose end is pulled around the ring and placed firmly over the locking device. If the item is small enough, you can wrap the loose end around the item twice before affixing the ring over the locking device.

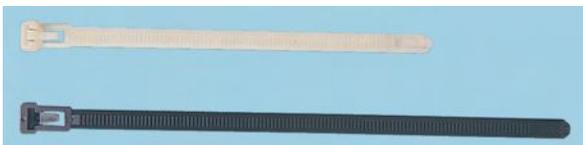
Mfrs. List No.	Overall Length (mm)	Width (mm)	Bundle Size	
			Min (mm)	Max (mm)
075-1600	180	23	15	36
075-1800	420	39	30	95

494148

10 Per Pack	Mfrs. List No.	Colour	Order Code	1+	5+	10+	25+
	075-1600	Rot	152-0024	7.04	6.69	6.33	6.02
	075-1800	Green	152-0025	16.16	15.35	14.58	13.85

Releasable Cable Ties

SPC pro-POWER



- One piece releasable cable ties manufactured in Natural or Black Nylon 66
- Flame retardant to UL94V-2
- Ideally suited for servicing/replacement or prototyping work

Operating temperature -40°C to +85°C

Length	Width	Min. Tensile Strength (kg)	Max. Bundle Dia.	Natural Order Code	Black Order Code
125	7.6	22	30	121-8017	126-9017
150	7.6	22	35	141-6065	141-6069
200	7.6	22	50	141-6067	141-6070
300	7.6	22	80	141-6068	141-6071

208054

100 Per Pack	L	W	Max. Dia.	Order Code	1+	5+	10+	50+
<b>Natural</b>	125	7.6	30	121-8017	4.06	3.61	3.07	2.62
	150	7.6	35	141-6065	4.88	4.30	3.85	3.20
	200	7.6	50	141-6067	2.81	2.48	2.21	1.81
	300	7.6	80	141-6068	9.32	8.26	7.30	5.92
<b>Black</b>	125	7.6	30	126-9017	4.50	4.00	3.41	2.91
	150	7.6	35	141-6069	4.88	4.30	3.85	3.20
	200	7.6	50	141-6070	5.73	5.06	4.51	3.68
	300	7.6	80	141-6071	9.32	8.26	7.30	5.92

Easy Release Cable Ties

HellermannTyton



- Easy release cable ties moulded in Black Nylon 66
- Pinch release mechanism designed to be quick and simple to release

Length	Width	Tensile Strength (lbs)	Mfrs. List No.
200	4.8	30	REZ200
300	4.8	30	REZ300

231290

100 Per Pack	Mfrs. List No.	Order Code	1+	5+	10+	25+	50+
	REZ200	116-9009	8.10	7.63	7.38	7.15	6.25
	REZ300	116-9010	9.15	8.60	8.32	8.06	7.66

Releasable Cable Ties

HellermannTyton



Releasable cable ties are ideal where temporary installation or the addition or removal of cables is required, e.g Theatres, outdoor events or prototype harnessing work.

- Extended trigger for simple and quick release
- Manufactured from polyamide 6.6(PA66)
- UL94 V2 recognised
- Applications, where temporary installation or the addition or removal of wires and cables are being installed
- Operating temperature: -40°C to +85°C continuous, (+145°C for 500h)

Length	Width	Max Bundle Dia.	Tensile Strength		Pack qty	Mfrs.	
			(lbs)	(kg)		List No.	Order Code
200mm	4.6mm	50mm	50	22.7	100	RELK2R.NB3P	129-6260
250mm	4.6mm	65mm	50	22.7	100	RELK2M.NB3P	129-6262
250mm	4.6mm	65mm	50	22.7	100	RELK2M.NN3P	129-6263
300mm	4.6mm	80mm	50	22.7	100	RELK2I.NB3P	129-6264
300mm	4.6mm	80mm	50	22.7	100	RELK2I.NN3P	129-6265
350mm	4.6mm	95mm	50	22.7	100	RELK2L.NB3P	129-6266
350mm	4.6mm	95mm	50	22.7	100	RELK2L.NN3E	129-6268
770mm	8.9mm	225mm	50	22.7	50	RLT150.NB2P	129-6269
770mm	8.9mm	225mm	50	22.7	50	RLT150.NN2P	129-6270

449786

Mfrs. List No.	Colour	Order Code	Price Per Pack			
			1+	5+	10+	50+
RELK2R.NB3P	Black	129-6260	5.87	5.62	5.40	5.14
RELK2M.NB3P	Black	129-6262	6.57	6.31	6.06	5.76
RELK2M.NN3P	Natural	129-6263	6.57	6.31	6.06	5.76
RELK2I.NB3P	Black	129-6264	8.07	7.76	7.43	7.05
RELK2I.NN3P	Natural	129-6265	8.07	7.76	7.43	7.05
RELK2L.NB3P	Black	129-6266	11.96	11.46	11.00	10.44
RELK2L.NN3E	Natural	129-6268	11.96	11.46	11.00	10.44
RLT150.NB2P	Black	129-6269	17.14	16.45	15.79	15.00
RLT150.NN2P	Natural	129-6270	17.14	16.45	15.79	15.00

Releasable Cable Ties

HellermannTyton



- Releasable cable ties moulded in Natural or Black Nylon 66
- Ideally suited to prototype work or installations where cable looms are constantly being added to or modified

## Cable Ties - continued

### Releasable Cable Ties - continued

Mftrs. List No. REL100-BLACK(100 PACK) = 116-8948, REL140-BLACK(100 PACK) = 116-8949, REL100-NAT(100 PACK) = 116-9074, REL140-NAT(100 PACK) = 116-9076, REL250-BLACK(100 PACK) = 116-8950, REL250-NAT(100 PACK) = 116-9077

	100 Per Pack		Max. Dia.	Order Code	Price Per Pack				
	L	W			1+	5+	10+	25+	50+
Natural	100	6.5	23	116-9074	4.09	3.64	3.30	3.04	2.91
	140	7.5	35	116-9076	5.20	4.98	4.65	4.13	3.91
	250	7.5	68	116-9077	6.65	6.38	5.95	5.29	4.93
Black	100	6.5	21	116-8948	4.09	3.64	3.30	3.04	2.91
	140	7.5	35	116-8949	4.73	4.54	4.31	4.14	3.92
	250	7.5	68	116-8950	6.05	5.83	5.52	5.30	4.95

### Mounting Cable Ties



- One piece non-releasable mounting cable ties manufactured in Natural or Black Nylon 66
- Flame retardant to **UL94V-2**

		Operating temperature		Mounting hole dia.		Min. Tensile Strength (kg)		Max. Bundle Dia.		Natural Order Code		Black Order Code	
		-40°C to +85°C		3.2mm (except 121-8016 and 433-950, 3.2mm)									
Length	Width	8	25	121-8016	126-9015								
100	2.5	18	40	141-6061	--								
155	3.7	22	60	141-6062	141-6063								
205	4.2	22	102	--	126-9016								
370	4.8												

### 100 Per Pack

	100 Per Pack		Max. Dia.	Order Code	Price Per Pack			
	L	W			1+	5+	10+	50+
Natural	100	2.5	25	121-8016	3.22	2.89	2.44	2.09
	155	3.7	40	141-6061	4.03	3.55	3.15	2.61
	205	4.2	60	141-6062	6.69	5.89	5.24	4.29
Black	100	2.5	25	126-9015	3.57	3.18	2.70	2.31
	205	4.2	60	141-6063	6.69	5.89	5.24	4.29
	370	4.8	102	126-9016	13.71	12.35	10.97	9.79

### TY-RAP™ Clamping Cable Ties



- A clamping version of the standard self-locking cable ties for applications requiring a more permanently secured cable harness

Mounting Hole			100 Pack		1000 Pack	
Length	Width	Dia.	Mftrs. List No.	Mftrs. List No.	Mftrs. List No.	Mftrs. List No.
101.6	2.3	3	TY533M	TY33M	TY33M	TY33M
198.4	4.7	5	TY535M	TY35M	TY35M	TY35M

Mftrs. List No.	Order Code	1+	5+	10+	25+
TY533M	123-0933	15.15	13.79	12.10	10.60
TY535M	123-0934	22.16	20.52	18.62	16.42
<b>1000 Per Pack</b>		<b>1+</b>	<b>10+</b>	<b>30+</b>	<b>50+</b>
TY33M	121-2495	97.99	87.72	78.29	71.14
TY35M	121-2496	94.65	84.60	75.40	68.43

### Mounting Cable Ties



- One-piece non-releasable cables ties designed for screw fixing onto a panel. Flame retardant to **UL94V-2**
- Manufactured to **MIL.SPEC.23190 DRG3367**. Available in Natural or Black

		Max. Bundle Dia.		Natural		Black	
Length	Width	Screw Dia.	Fixing	Mftrs. List No.	Order Code	Mftrs. List No.	Order Code
100	2.5	16	M3	T18MR-NAT(100 PACK)	116-9072	T18MR-BLK(100 PACK)	116-9073

	100 Per Pack		Max. Dia.	Order Code	Price Per Pack				
	L	W			1+	5+	10+	25+	50+
Natural	100	2.5	16	116-9072	6.41	6.02	5.53	4.93	4.65
	100	2.5	16	116-9073	6.78	6.37	5.84	5.21	4.92

### Mounting Head Cable Ties



This range of one piece cable ties has a mounting hole fixing method. Once fastened around the cables the bundle can be simply secured to the panel with a screw or bolt. Ideal for fixing cables, pipes and hoses onto solid surfaces with pre-drilled holes or holes in metal plates. These ties are used in many industries, for example: building construction, panel builders and white goods manufacturers.



Mftrs. List No.	Length (mm)	Width (mm)	Min. Bundle (mm)	Max. Bundle (mm)	Tensile Strength (N)	Fixing Hole Dia. (mm)
T30MR BLACK	160	3.5	1.5	32	135	4.3
T50MR BLACK	215	4.7	1.5	45	225	5.4

Mftrs. List No.	Order Code	1+	10+	25+	50+
T30MR BLACK	167-4230	4.72	4.58	4.44	4.30
T50MR BLACK	167-4231	5.23	5.08	4.92	4.77

### Blind/Through Wall Fixing Tie



- One piece blind hole/through fixing cable tie, designed for metal, wood, brick and concrete
- Applications include automotive and others, where panel thickness is greater than 0.8mm
- Unit manufactured in Black Nylon 66

Length	Cable Tie Width	Max Bundle	Hole	Mftrs. List No.	Order Code
150mm	5mm	31	6.5 - 7.1	T50SDP6-BLK(25 PACK)	116-9068

Blind/Through	Pack Quantity	Order Code	Price Per Pack			
			1+	5+	10+	25+
	25	116-9068	3.56	3.34	2.98	2.54

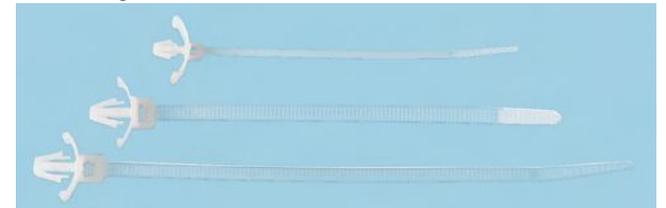
### Blank Hole Mounting Cable Tie



- One piece blind hole mount fixing cable tie
- Moulded in Natural Nylon 6.6
- 6.35mm fixing hole
- 6.35mm min. panel thickness
- Supplied in Packs of 40

Mftrs. List No.	Length (mm)	Width (mm)	Order Code	1+	5+	10+	50+
WITBH-50R	199.1	4.8	165-7541	6.25	6.06	5.88	5.59

### Panel Fixing Ties Arrow Head



- One-piece non-releasable cables ties designed to secure harnesses, conduits and pipes etc. to panels. Easy to use, each tie includes a push in locking device for mounting into panel holes
- Manufactured to **MIL SPEC 23190 DRG 3367** and flame retardant to **UL 94 V-2**

Length (mm)	Width (mm)	Mounting Hole Dia.	Max. Panel Thickness	Mftrs. List No.	Order Code
100	2.5	4.75	3	T18RSF-NAT(100 PACK)	116-9069
135	4.6	6.2	2.7	T50SSL5-NAT(100 PACK)	116-9070
165	4.6	7	2.5	T50SL7-NAT(100 PACK)	116-9071

	100 Per Pack		Max. Panel Thickness	Price Per Pack					
	L	W		1+	5+	10+	25+	50+	
Natural	100	2.5	3	116-9069	5.40	5.10	4.70	4.30	4.17
	135	4.6	2.7	116-9070	9.23	8.72	8.04	7.35	7.09
	165	4.6	2.5	116-9071	10.57	10.01	9.27	8.44	8.15

**Cable Tie with Integral Mounting Base**



Self-adhesive



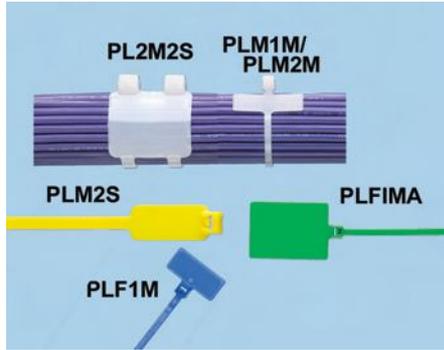
Mounting Base=19 x 10

Mfrs. List No. T18RSA-NAT(100 PACK)

224074

100 Per Pack		Max.	Price Per Pack					
L	W	Dia.	Order Code	1+	5+	10+	25+	50+
100	2.5	16	116-8954●	8.52	7.61	6.32	5.71	5.46

**Marker Cable Ties-Outdoor**



- Used to fasten and identify bundles at the same time
- Can be marked with computer printable labels

Colour, Legend	Length (mm)	Width (mm)	Max. Bundle Dia.(mm)	Min. Loop Tensile Str.(N)	Order Code
Black- PLM1M	99	2.5	19	80	101-5587
Black- PLF1M	109	2.5	22	80	101-5589
Black- PLM2S	188	4.7	45	222	101-5591
Black- PL2M2S	188	4.7	45	222	101-5592
Orange- PLF1MA	130	2.5	22	80	101-5593
Yellow- PLF1MA	130	2.5	22	80	101-5594
Yellow- PLM2S	188	4.7	45	222	101-5595

419692/436608

100 Per Pack Order Code	1+	Price Per Pack	3+
101-5587●	10.18		9.16
101-5589●	9.41		8.46
101-5591●	16.71		15.03
50 Per Pack Order Code			
101-5592●	39.09		35.19
100 Per Pack Order Code			
101-5593●	12.02		10.83
101-5594●	12.02		10.83
101-5595●	15.98		14.38

**Identification Cable Ties**



- Three versions of one piece non-releasable identification ties moulded in Natural Nylon 66 for easy identification of wire bundles, cable harnesses etc.
- Tag can be marked using self-adhesive labels, tapes or indelible marker pen.

Length (mm)	Width (mm)	Marker Tag Size	Maximum Bundle Dia.	Mfrs. List No.	Order Code
100	2.3	25 x 8mm	16	IT18R-NAT(100 PACK)	116-8983
110	2.3	20 x 9mm	16	IT18FL-NAT(100 PACK)	116-8984
200	4.6	27 x 12.5mm	50	IT50R-NAT(100 PACK)	116-9043

219615

100 Per Pack		Max.	Price Per Pack					
L	W	Dia.	Order Code	1+	5+	10+	25+	50+
100	2.3	16	116-8983●	7.98	7.46	6.70	6.00	5.67
110	2.3	16	116-8984●	9.48	8.96	8.07	7.20	6.78
200	4.6	50	116-9043●	10.73	10.14	9.35	8.45	8.12

**TY-RAP™ ID Cable Ties**



TY546M/TY46M

- Two sizes of self-locking TY-RAP cable ties allowing the engineer to identify particular cable arrangements

Length	Width	100 Pack Mfrs. List No.	500 Pack Mfrs. List No.
92	2.3	TY551M	TY51M

224080

Mfrs. List No.	Order Code	1+	5+	10+	25+
100 Per Pack TY551M	123-0935●	12.90	11.69	10.12	8.94
500 Per Pack TY551M	121-2498●	34.17	33.14	31.48	29.90

**Identification Cable Ties**



- One piece non-releasable identification ties
- Manufactured in TO UL94V-2 flame retardant Natural Nylon 66
- Tag can be marked using self-adhesive labels or indelible marker pen

Length	Width	Min. Tensile Strength (kg)	Max. Bundle Dia.	Marker Tag Size	Order Code
100	2.5	8	25	25 x 8	141-6064

FOR SUITABLE MARKER PEN SEE ORDER CODE 117-9865

224099

100 Per Pack		Max.	Price Per Pack				
L	W	Dia.	Order Code	1+	5+	10+	50+
100	2.5	25	141-6064●	3.01	2.67	2.36	1.94

**Metal Detectable Cable Tie**



- Metal impregnated material
- One-piece design with locking wedge
- Curved, tapered tip
- Smooth, round edges

Mfrs List No.	Length (mm)	Width (mm)	Thickness (mm)	Bundle Diameter Max. (mm)
Miniature cross Section				
PLT1M-C86	100	2.5	1.1	22
Intermediate Cross Section				
PLT2I-C86	203	3.4	1.2	51
Standard Cross Section				
PLT2S-C86	186	4.8	1.4	47
PLT3S-C86	291	4.8	1.4	76
PLT4S-C86	366	4.8	1.4	102
Light-Heavy Cross Section (Straight Tip)				
PLT3H-L86	282	7.6	1.9	76
PLT4H-L86	366	7.6	1.9	102

485862

100 Per Pack Mfrs. List No.	Order Code	1+	Price Per Pack	5+	10+
PLT1M-C86	147-1646●	5.71		5.54	5.37
PLT2I-C86	147-1647●	8.67		8.41	8.16
PLT2S-C86	147-1649●	8.84		8.57	8.32
PLT3S-C86	147-1651●	12.91		12.52	12.15
PLT4S-C86	147-1652●	14.19		13.76	13.35
50 Per Pack					
PLT3H-L86	147-1653●	16.54		15.72	14.93
PLT4H-L86	147-1654●	18.22		17.31	16.43

**Metal Content Tie**



The HellermannTyton Metal Content Tie is a cable tie specifically designed for use in the food and pharmaceutical processing industries. A unique manufacturing process, involving the inclusion of a metallic pigment, enables the tie to be detected more readily than standard nylon ties.

## Cable Ties - continued

### Metal Content Tie - continued

**Applications:**

The HellermannTyton Metal Content Cable Tie Range is ideally suited for electrical cabling applications both on plant and within areas adjacent to the manufacturing process.

- Specifically designed for use in the food and pharmaceutical processing industries
- Nylon tie incorporating a metallic compound throughout
- Total metal dispersion throughout the body of the tie
- Can be part of the Hazardous Analysis of Critical Control Point (HACCP), a pro-active process control system by which food quality is ensured. This system has been adopted by many countries around the world and is mandatory in some
- Blue in colour, again to assist in detection
- Greatly reduces the risk of contamination
- Use HellermannTyton MK3/MK7/MK20 Tensioning Tools

Mfrs. List No.	Overall Length (mm)	Strap Width (mm)	Min. Tensile Strength Lbs	N
MCT30R	150	3.5	30	135
MCT50R	200	4.6	50	225
MCT50L	390	4.6	50	225

490847

100 Per Pack Mfrs. List No.	Order Code	1+	5+	10+	25+	50+
MCT30R	<b>150-3047</b>	6.47	6.14	5.84	5.53	5.26
MCT50R	<b>150-3048</b>	9.58	9.09	8.63	8.20	7.80
MCT50L	<b>116-9013</b>	15.17	14.27	13.82	13.37	12.94

### Twist Tie On Base



- Designed for application where fixing holes would be impractical or unsightly
- Moulded in Natural Nylon 6/6
- The range covers cable diameters from 7.6 to 20.3mm

483027

100 Per Pack Bundle Dia.	Height	Order Code	1+	5+	10+	50+
7.6 - 10.1mm	27.2mm	<b>145-4797</b>	15.59	15.15	14.72	14.29
10.1 - 12.7mm	31.2mm	<b>145-4798</b>	17.11	16.62	16.13	15.66
17.8 - 20.3mm	40.1mm	<b>145-4799</b>	20.52	19.95	19.36	18.79

### Re-Usable Twist Tie



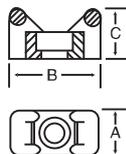
- Re-usable twist tie in Natural colour Nylon 66
- Flame retardant to **UL94V-2**
- Ideally suited for prototyping or for easy modification to wiring looms etc.

224083

100 Per Pack Bundle Dia.	Order Code	1+	5+	10+	50+
7-10	<b>121-8019</b>	2.67	2.42	2.29	2.13
10-13	<b>121-8020</b>	3.58	3.46	3.17	2.85
13-16.5	<b>121-8021</b>	4.00	3.61	3.44	3.15
16.5-20	<b>121-8022</b>	5.35	5.03	4.63	4.15
20-26	<b>121-8023</b>	3.10	2.72	2.58	2.34

## Cable Tie Mounts

### Cable Tie Mounts



- Natural and Black nylon cable tie mounts with single screw fixing.
- Suitable for use with cable ties of any width, up to the maximum, to ensure secure fixing of cable bundles.

Dimensions			Max Tie Width	Fixing	Mfrs. List No.	Order Code	
A	B	C				Natural	Black
12	18	9	4.6	M4	KR6G5	116-9047	116-9011
14.5	25	12	7.6	M6	KR8G5	116-9048	116-9012

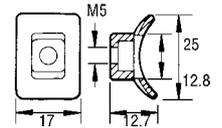
208094

100 Per Pack Order Code	1+	5+	Price Per Pack		
			10+	25+	50+
<b>Natural</b>					
<b>116-9047</b>	12.31	11.76	10.80	9.87	9.55
<b>116-9048</b>	15.43	14.61	13.47	12.34	11.92
<b>Black</b>					
<b>116-9011</b>	10.65	10.29	9.83	9.51	8.54
<b>116-9012</b>	8.94	8.66	8.27	7.98	7.14

### Cable Tie Mounting Saddles



#### Natural and Black



- Natural or Black Nylon cable tie mounting saddles accepting cable ties up to 9.4mm wide
- Suitable for fixing bunched cables or plastic/metal conduit

Mfrs. List No. LKC-NAT(100 PACK) = 116-8956 LKC-BLK(100 PACK) = 116-8966

224076

100 Per Pack	Order Code	1+	5+	10+	25+	50+
Natural	<b>116-8956</b>	6.90	5.96	5.13	4.53	4.27
Black	<b>116-8966</b>	6.90	5.96	5.13	4.53	4.27

### Cable Tie Mounts - Screw Applied



- Unique cradle design provides maximum stability for cable bundle
- Low profile design keeps bundle close to mounting surface where overhead space is limited
- Black mounts are Nylon 6.6 weather resistant material
- 1015707 is Polypropylene material

Colour	Height (mm)	Length (mm)	Width (mm)	Hole Dia. (mm)	Mounting Method	Order Code
Natural	5.8	13	9.5	3.7	M3 Screw	101-5697
Black	5.8	13	9.5	3.7	M3 Screw	101-5702
Natural	7	16.1	10.8	4.5	M4 Screw	101-5698
Black	7	16.1	10.8	4.6	M4 Screw	101-5703
Natural	9.5	21.8	15.5	4.5	M4 Screw	101-5699
Black	9.5	21.8	15.5	4.5	M4 Screw	101-5704
Natural	9.5	21.8	15.8	5	M5 Screw	101-5700
Black	9.5	21.8	15.8	5	M5 Screw	101-5705
Natural	9.5	21.8	15.8	6.6	M6 Screw	101-5701
Black	9.5	21.8	15.8	6.6	M6 Screw	101-5706

419735/436627

100 Per Pack Order Code	1+	Price Per Pack	3+
<b>101-5697</b>	6.65		5.97
<b>101-5698</b>	8.96		8.08
<b>101-5699</b>	10.19		9.17
<b>101-5700</b>	10.19		9.17
<b>101-5701</b>	10.19		9.17
<b>101-5702</b>	7.64		6.87
<b>101-5703</b>	8.96		8.08
<b>101-5704</b>	10.19		9.17
<b>101-5705</b>	10.19		9.17
<b>101-5706</b>	10.19		9.17

### Extra-Heavy Cable Tie Mounts - Screw Applied



- Unique cradle design provides maximum stability for cable bundle
- Routes and supports large diameter and heavy cable bundles
- Weather resistant Nylon 6.6

Colour	Height (mm)	Length (mm)	Width (mm)	Hole Dia. (mm)	Mounting Method	Order Code
Black	15.5	41.1	18.3	4.3	M4 Screw	101-5708
Black	15.5	41.1	18.3	5.1	M5 Screw	101-5711
Black	15.5	41.1	18.3	6.6	M6 Screw	101-5712

419737/436629

25 Per Pack Order Code	1+	Price Per Pack	3+
101-5708●	32.52	29.26	29.26
101-5711●	32.52	29.26	29.26
101-5712●	32.52	29.26	29.26

Cable Tie Mountings



- Various cable tie mounting blocks for screw or self-adhesive fixing

Tie Width	Mounting Method	Order Code
	Self-adhesive backing	121-2505
	No. 8 countersunk screw	121-2506
	No. 5 countersunk screw	121-2507
	No. 6 (4BA) pan head screw	121-2508

224081

Order Multiple=10	Mftrs. List No.	Order Code	10+	100+	500+
	TC5347AR	121-2505●	0.420	0.390	0.290
	TC102	121-2506●	0.113	0.093	0.072
	TC104	121-2507●	0.113	0.093	0.072
	TC5141	121-2508●	0.165	0.144	0.113

Cable Tie Mounting Bases  
Natural and Black



- Natural or Black Nylon 66 cable tie mounting bases with self-adhesive and screw fixing options
- Bases accept tie insertion from all four sides

Basic Size	Tie Width Accommodation	Mounting Self-Adhesive or Screw	Mftrs. List No.	Order Code	
				Natural	Black
13 x 13	2.5	—	MB2A	116-8981	116-9044
19 x 19	2.5 - 4.5	2 x 3 dia.	MB3A	116-8951	116-9045
28 x 28	2.5 - 5.5	2 x 3 dia.	MB4A	116-8953	116-9046

224075

50 Per Pack Base Size	Order Code	1+	5+	Price Per Pack		
				10+	25+	50+
<b>Natural</b>						
13 x 13	116-8981●	4.49	4.41	4.28	4.13	3.92
19 x 19	116-8951●	5.31	5.21	5.11	4.99	4.89
28 x 28	116-8953●	5.87	5.76	5.65	5.51	5.39
<b>Black</b>						
13 x 13	116-9044●	4.66	4.44	4.22	4.01	3.69
19 x 19	116-9045●	5.54	5.32	5.10	4.80	4.37
28.5 x 28.5	116-9046●	5.71	5.48	5.17	4.97	4.60

4-Way Adhesive Backed Cable Tie Mounts



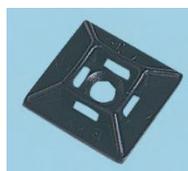
- Superior adhesive for long term reliability
- 2-up mount configuration speeds liner removal and installation
- 4-way cable tie entry makes part orientation fast and easy
- Adhesive backing allows routing of wires and cables where mounting holes cannot be drilled

Material	Colour	Height (mm)	Length (mm)	Width (mm)	Max. Static Load (g)	Adhesive	Order Code
Nylon 6.6	White	4	12.7	12.7	59	Rubber	101-5665
Nylon 6.6	White	4	12.7	12.7	59	Acrylic	101-5666
ABS	White	4.6	19.1	19.1	136	Rubber	101-5668
ABS	White	4.6	19.1	19.1	136	Rubber	101-5669
ABS	White	4.6	19.1	19.1	136	Acrylic	101-5670
Weather Resistant ABS	Black	4.6	19.1	19.1	136	Acrylic	101-5671
Weather Resistant ABS	White	4.2	25.4	25.4	227	Rubber	101-5672
Weather Resistant ABS	Black	4.2	25.4	25.4	227	Rubber	101-5673
Weather Resistant ABS	White	4.2	25.4	25.4	227	Acrylic	101-5674
Weather Resistant ABS	Black	4.2	25.4	25.4	227	Acrylic	101-5675
Nylon 6.6	Natural	6.4	38.1	38.1	513	Rubber	101-5676

419722/436619

100 Per Pack Mftrs. List No.	Order Code	1+	Price Per Pack	3+
ABM1M-A-C	101-5665●	8.13	7.31	
ABM1M-AT-C	101-5666●	18.22	16.39	
ABMM-A-C	101-5668●	9.00	8.12	
<b>25 Per Pack</b>				
ABMM-A-Q	101-5669●	4.51	4.06	
<b>100 Per Pack</b>				
ABMM-AT-C	101-5670●	24.38	21.95	
ABMM-AT-CO	101-5671●	28.05	25.24	
ABM2S-A-C	101-5672●	10.14	9.13	
ABM2S-A-CO	101-5673●	11.05	9.94	
ABM2S-AT-C	101-5674●	32.26	29.03	
ABM2S-AT-CO	101-5675●	34.54	31.09	
<b>50 Per Pack</b>				
ABM3H-A-L	101-5676●	23.73	21.35	

Cable Tie Mounting Bases  
Natural and Black



- Natural or Black nylon 66 mounting bases, self-adhesive or central screw fixing
- Accepts ties from all four sides
- Flame retardant to **UL94V2**

Base size=28 x 28, Max. cable width=5, Mounting hole=5

208167

100 Per Pack	Order Code	1+	5+	10+	50+
Natural	121-8024●	6.81	6.02	5.14	4.42
Black	121-8026●	7.06	6.22	5.30	4.57

Cable Tie Mounting Bases



- Natural or Black ABS plastic mounting bases with self-adhesive or central screw fixing options
- Accepts ties from all four sides

Operating temperature -15°C to +75°C

Base Size	Max. Cable Tie Width	Central Hole Dia.	Natural	Black
			Order Code	Order Code
19 x 19	3.6	4.3	268-690	268-719
25 x 25	4.8	4.3	268-707	268-720

208012

100 Per Pack	Order Code	1+	5+	10+	50+
Natural	268-690	5.86	5.22	4.62	3.93
Black	268-707	6.94	6.13	5.43	4.66
	268-719	5.86	5.22	4.62	3.93
	268-720	6.94	6.13	5.43	4.66

Epoxy Applied Swivel Mount



- Mount swivels 360° to ensure proper orientation with harness
- Four inspection holes to check adhesive coverage

Material	Height (mm)	Length (mm)	Width (mm)	Max. Static Load (g)	Order Code
Aluminium Base Nylon Mount	8.9	28.6	28.6	4540	101-5687

## Cable Tie Mounts - continued

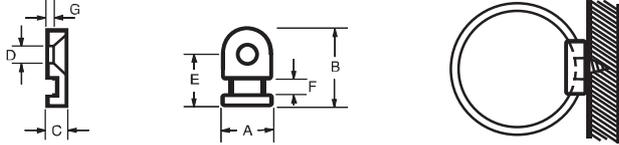
### Epoxy Applied Swivel Mount - continued

419727/436621

10 Per Pack Order Code	1+	Price Per Pack	3+
101-5687●	28.96		26.06

### Cable Mount Bases

MB Series



Designed specifically for holding heavier cable bundles these mounting bases can be used in many industries from Agriculture to Truck manufacture, they offer a very secure fixing and can be used with a wide variety of heavy duty cable ties up to 9mm wide. Simple to install with a screw or bolt they give excellent security, particularly in areas of high vibration. Single hole fixing with two-way entry for the cable tie

- Manufactured from polyamide 6.6 (PA66)
- Operating temperature -40°C to +85°C continuous (+105°C for 500h)
- UL94 V2 recognised

Mfrs. List No.	Length	Width	Height	Fixing hole diameter	Strap width Max.	Order Code
MB1	12.5mm	8mm	3.5mm	2.9mm	2.6mm	842-369

449787

100 Per Pack Mfrs. List No.	Order Code	1+	5+	10+	50+	+
MB1	842-369●	10.79	9.89	9.00	7.71	--



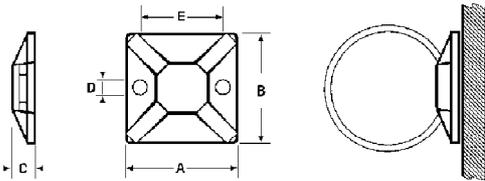
### Cable Tie Bases

#### Series MB 3-5

Screwable or Self Adhesive



2



- The MB mounts offer 4-way entry for the cable tie enabling quicker and more flexible installation
- Simple to install with a screw or bolt they give excellent security, particularly in areas of high vibration
- 2-hole fixing and 4-way entry for the cable ties
- Very high pull off force is achieved with the specially developed adhesive

Material	Polyamid 6.6					Max. Tie Width
Colour	Natural					
Typ	A	B	C	D	E	
MB3	19	19	3,8	3,1	13,2	3,6
MB3A	19	19	3,8	3,1	13,2	3,6
MB4A	28	28	5	4	20,2	5,4
MB5A	38	38	6,4	4,7	25,3	7,8

Dimensions in mm

238817

Typ	Order Code	Price Per Pack (100)	
		1+	5+
<b>Screw Fixing</b>			
MB3	823-119●	23.94	22.73
<b>Self Adhesive</b>			
MB3A	823-120●	29.24	27.51
MB4A	823-144●	37.72	35.69
MB5A	823-168●	65.46	61.07

### Knock-In Low Profile Mounts



- Eliminates screws by using an integral push rivet
- Secures wires to any pre-drilled panel
- Can be installed in any panel thickness
- Low profile design keeps bundle close to mounting surface where overhead space is limited

Height (mm)	Length (mm)	Width (mm)	Fixing Hole Dia. (mm)	Colour	Order Code
3	18.7	12.4	3.7	Red	101-4837
3	18.7	12.4	4.3	Blue	101-4838
3	18.7	12.4	5	Yellow	101-4839

419560/436443

100 Per Pack Mfrs. List No.	Order Code	1+	3+
KIMS-H366-C2	101-4837●	15.89	14.30
KIMS-H430-C6	101-4838●	15.89	14.30
KIMS-H500-C4	101-4839●	15.89	14.30

### Screw Applied-Low Profile Mounts



- Small overall size allows use where space is limited
- Install with a screw or rivet for a strong, secure installation
- Low profile design keeps bundle close to mounting surface where overhead space is limited

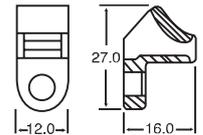
Height (mm)	Length (mm)	Width (mm)	Fixing Hole Dia. (mm)	Mounting Method	Order Code
2.5	10.2	8.1	3.5	M3 C/S Screw	101-4841
3	19.1	12.7	4.6	M4 C/S Screw	101-4842

419563/436447

100 Per Pack Mfrs. List No.	Order Code	1+	3+
LPMM-S5-C	101-4841●	10.88	9.80
LPMS-S8-C	101-4842●	13.15	11.84

### Mounting Cradle

Harness Fabrication Use



- Designed for applications where it is necessary to fit the cradle to the cable tie, prior to anchoring down the harness
- The head of the tie is concealed within the cradle for added neatness
- Accepts cable ties up to 7.6mm wide
- Operating temperature: -40°C to +85°C continuous (+105°C for 500h)

Mfrs. List No.	Thread size	Material	Colour	Order Code
LKM-NAT(100 PACK)	M6	Nylon	Natural	116-9056
LKM.NB3P	M6	Nylon	Black	129-6278

449788

100 Per Pack Mfrs. List No.	Order Code	1+	5+	10+	25+	50+
LKM-NAT(100 PACK)	116-9056●	6.37	6.03	5.66	5.13	4.90
LKM.NB3P	129-6278●	7.10	6.62	6.38	5.61	--

### Screw Applied-Tie Anchor Mounts



- 4-way cable tie entry makes part orientation fast and easy
- Install with a screw or rivet for a strong, secure installation
- Small overall size allows use where space is limited

Height (mm)	Length (mm)	Width (mm)	Fixing Hole Dia. (mm)	Mounting Method	Order Code
5.1	9.5	19	4.3	M4 Screw	101-4843
5.1	9.5	19	5.1	M5 Screw	101-4844

419565/436449

100 Per Pack Mfrs. List No.	Order Code	1+	3+
TA1S8-C	101-4843●	18.70	16.84
TA1S10-C	101-4844●	18.70	16.84



**Winged Tie Push Mount**



419568/436451



- Insert into pre-drilled holes
- The winged base applies pressure on the panel wall to provide a more secure mount in high vibration applications
- Can be used where only one side of panel is accessible

Height (mm)	Length (mm)	Width (mm)	Max. Panel Thickness (mm)	Panel Hole Dia. (mm)	Order Code
18.3	18	15.5	2.3	6.4	101-4872

100 Per Pack Mfrs. List No.	Order Code	1+	Price Per Pack	3+
TM2PWH25-C	101-4872●	25.13		22.60

**Hook Mount Tie Holder**

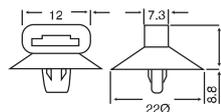


- Used in pre-drilled 4.76 diameter holes in panels up to 2mm thick
- Manufactured in UL94V-0 flame retardant Natural Nylon 6/6
- To be used with 2.5mm wide cable ties
- Secures 2.5mm cable using cable tie teeth on head of mount

483025

100 Per Pack Order Code	1+	5+	Price Per Pack	10+	50+
145-4784●	7.22	7.04		6.83	6.63

**Self-Fixing Cradles**



- A one-piece self-fixing cradle for use with cable ties up to 8mm wide and in panels up to 1.8mm thick. Requires a 6.4mm diameter mounting hole
- Manufactured from Nylon 66

208091

100 Per Pack	Order Code	1+	5+	Price Per Pack	10+	25+	50+
Natural	116-9057●	9.81	9.26		8.71	7.85	7.48
Black	116-9058●	9.84	9.30		8.74	7.87	7.51

**Edge Clip Tie Holder**



- Accepts cable ties in upto 5.4mm width
- Ties can be mounted in one of 2 directions
- Moulded in Black Nylon 6.6
- The range covers 0.8 - 3mm panel thickness
- Supplied in Packs of 40

Dimensions (mm): L=16, W=14.5, D=10.8

524568

Mfrs. List No.	Order Code	1+	5+	Price Per Pack	10+	50+
FTH-31-01	165-7540●	7.67	7.43		7.21	6.86

**Standoff Mounts**



- Strong, sturdy post, supports wire bundles above or away from surface

Height (mm)	Length (mm)	Width (mm)	Fixing Hole Dia. (mm)	Mounting Method	Order Code
50.8	27.9	18.3	5.1	M5 Screw	101-4847
116.8	27.9	18.3	5.1	M5 Screw	101-4849

**10 Per Pack**

Mfrs. List No.	Order Code	1+	Price Per Pack	3+
PP1S-S10-X	101-4847●	12.02		10.81
PP2S-S10-X	101-4849●	20.22		18.21

**Velcro Ties & Accessories**



**Tak-Ty™**



- Releasable and reusable hundreds of times
- Different styles available:
- No risk of damaging high performance cables
- Cinch rinf - for extra strength and bundle tightness
- No waste, excess can be wrapped around the bundle
- With Slot - allows for pre-wrapping of bundles
- Complimentary mounts are available - see article number 101-5693 to 5696
- Can be used in air handling spaces
- Rolls - you decide how long you need the strip to be

	Length	Width	Min. Bundle Dia.	Max. Bundle Dia.	Mfrs. List No.
Loop Ties	203	6.4	6.4	48	HLT21-X0
	305	12.7	6.4	81	HLT31-X0
Cinching Ties	305	19.1	50.8	76.2	HLC3S-X0
	457	19.1	76.2	127	HLC5S-X0
Roll	4572	19	6.4	—	HLS-15Rx

208163/438849

Colour	Length	Order Code	Price Each			
			1+	10+	25+	100+
<b>Loop Ties</b>						
Black	203	117-9882●	0.78	0.69	0.60	0.47
Black	305	117-9884●	1.01	0.89	0.77	0.63
<b>Cinching Ties</b>						
Black	305	117-9885●	1.10	0.98	0.86	0.70
Black	457	117-9886●	1.34	1.19	1.06	0.86
<b>4.5m Roll</b>						
Black	4572	117-9887●	12.37	10.29	9.11	8.06
Red	4572	117-9888●	13.38	12.29	10.71	8.70
Orange	4572	117-9889●	13.38	12.29	10.71	8.70
Yellow	4572	117-9890●	13.38	12.29	10.71	8.70
Green	4572	117-9891●	12.92	11.86	10.34	8.42
Blue	4572	117-9892●	13.38	12.29	10.71	8.70
Grey	4572	117-9893●	13.38	12.29	10.71	8.70

**Hook and Loop Ties**



- Hook and loop ties available in 3 different styles
- Easy to release and reuse
- Ideal for use where frequent access is required and where over tightening is a concern
- Type A: Standard hook and loop tie with mounting hole
- Type B: Hook and loop tie with plastic loop for increased strength
- Type C: Hook and loop roll

	Length (mm)	Width (mm)	Colour	Order Code
Type A	203	12.7	Black	372-7701
Type A	305	12.7	Black	372-7713
Type B	305	19.1	Black	372-7725
Type B	457	19.1	Black	372-7737
Type C	4572	19	Black	372-7749
Type C	4572	19	Red	372-7750
Type C	4572	19	Blue	372-7786



## Velcro Ties & Accessories - continued

### Hook and Loop Ties - continued

Colour	Length (mm)	Order Code	Price Each			
			1+	5+	10+	50+
<b>Type A</b>						
Black	203	372-7701	0.38	0.32	0.26	0.20
Black	305	372-7713	0.49	0.41	0.33	0.23
<b>Type B</b>						
Black	305	372-7725	0.96	0.73	0.50	0.26
Black	457	372-7737	1.16	0.87	0.60	0.32
<b>Type C</b>						
Black	4572	372-7749	4.85	3.82	2.89	1.87
Red	4572	372-7750	3.52	2.78	2.10	1.36
Blue	4572	372-7786	4.85	3.82	2.89	1.87

### Hook & Loop



Quick and simple to use without the need for tools they have no waste, are corrosion free, are resistant to ageing and are reusable (up to 400 times). As cables use thinner and softer insulation, and as fibre optic cables become more common there is a need for a 'soft' method of bundling. The **TEXTIE®** are ideal for use on telephone cables, optical fibre and network cables up to Class 6. Perfect for use in temporary installations such as theatre stage construction or prototype cable harnesses.

**HellermannTyton**



Mfrs. List No.	Length	Width	Bundle Dia.	Pack Qty	Colour
TEXTIE S BLACK	150mm	12.5mm	45mm	10	Black
TEXTIE M BLACK	200mm	12.5mm	60mm	10	Black
TEXTIE M WHITE	200mm	12.5mm	60mm	10	White
TEXTIE M RED	200mm	12.5mm	60mm	10	Red
TEXTIE M YELLOW	200mm	12.5mm	60mm	10	Yellow
TEXTIE M GREEN	200mm	12.5mm	60mm	10	Green
TEXTIE L BLACK	330mm	12.5mm	100mm	10	Black
TEXTIE 5M	5m	12.5mm	-	-	Black

Mfrs. List No.	Order Code	1+	10+	25+	50+
TEXTIE S BLACK	167-4251	3.25	3.15	3.06	2.96
TEXTIE M BLACK	167-4252	4.06	3.94	3.82	3.71
TEXTIE M WHITE	167-4253	4.06	3.94	3.82	3.71
TEXTIE M RED	167-4254	4.06	3.94	3.82	3.71
TEXTIE M YELLOW	167-4255	4.06	3.94	3.82	3.71
TEXTIE M GREEN	167-4256	4.06	3.94	3.82	3.71
TEXTIE L BLACK	167-4257	5.08	4.92	4.77	4.63
		<b>Price Each</b>			
TEXTIE 5M	167-4258	5.79	5.61	5.44	5.28

### Hook And Loop Ties



- Hooks and loops on the same side allow you to secure a greater range of bundle diameters
- Low profile contoured cinch ring reduces overall bundle size
- Soft hook and loop material maintains network data integrity by protecting against over-tensioning, unravelling and delamination
- Releasable and reusable hundreds of times, so ideal for applications requiring frequent moves, or changes
- Tapered tip facilitates easy, snag-free threading to speed installation time
- Brass grommet assures reliable installations

with a high strength metal grommet that resists pull-out

- Note: Minimum 2" overlap required to achieve loop tensile rating
- Flat head phillips screws designed for fixing Panduit Hook and Loop Grommet ties

Colour	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)	Order Code
Black	305	21.6	76	222	101-5605
Red	305	21.6	76	222	101-5607
Orange	305	21.6	76	222	101-5608
Green	305	21.6	76	222	101-5610
Blue	305	21.6	76	222	101-5611
Black	457	21.6	127	222	101-5614
Red	457	21.6	127	222	101-5615
Orange	457	21.6	127	222	101-5616
Yellow	457	21.6	127	222	101-5617
Blue	457	21.6	127	222	101-5621
<b>Centre Mounting Grommet</b>					
Black	305	21.6	76	222	101-5624
<b>End Mounting Grommet</b>					
Black	305	21.6	76	222	101-5641

419706/436615

Mfrs. List No.	Order Code	1+	3+
UCT3S-X0	101-5605	17.94	16.15
UCT3S-X2	101-5607	17.94	16.15
UCT3S-X3	101-5608	17.94	16.15
UCT3S-X5	101-5610	17.94	16.15
UCT3S-X6	101-5611	17.94	16.15
UCT5S-X0	101-5614	20.00	18.00
UCT5S-X2	101-5615	20.00	18.00
UCT5S-X3	101-5616	20.00	18.00
UCT5S-X4	101-5617	20.00	18.00
UCT5S-X6	101-5621	20.00	18.00
UGCTC3S-X0	101-5624	25.54	22.99
UGCTE3S-X0	101-5641	25.54	22.99

## Stainless Steel/Aluminium Cable Ties

### Steel Releasable Ties



These ties can be supplied with coating in a wide combination of lengths and widths. They have better weathering properties with excellent resistance to corrosion, radiation and abrasion. Fasten-unfasten-refasten means greater flexibility with the Releasable Tie.

- Operating temperature -80°C to 150°C

Mfrs. List No.	Length (mm)	Width (mm)	Max Bundle Diameter (mm)
SHRCT150/5	150	5	36
SHRCT150/10	150	10	36
SHRCT230/5	230	5	60
SHRCT230/10	230	10	60
SHRCT330/5	330	5	95
SHRCT330/10	330	10	95
SHRCT450/5	450	5	130
SHRCT450/10	450	10	130

523370

Mfrs. List No.	Order Code	1+	5+	10+
SHRCT150/5	164-8095	32.30	31.33	30.40
SHRCT150/10	164-8096	41.65	40.40	39.19
SHRCT230/5	164-8097	49.13	47.65	46.23
SHRCT230/10	164-8098	57.46	55.73	54.06
SHRCT330/5	164-8099	41.65	40.40	39.19
SHRCT330/10	164-8101	56.96	55.24	53.59
SHRCT450/5	164-8103	69.70	67.61	65.58
SHRCT450/10	164-8104	87.55	84.93	82.38

See our range of Tie Tools on page 101

### Stainless Steel Releasable Ties



- Manufactured from Stainless Steel grade AISI 316, uncoated or powder coated in an electrostatically black epoxy finish, making them extremely resistant to corrosion.
- DNV and UL approved
- Simple to fix - either by tensioning tools (Order Codes 129-7947 and 129-7948) or by hand
- For use in most indoor/outdoor environments especially where severe environments exist such as Food Processing, Marine, Power stations, Petrochemical, Offshore, Underground cable laying
- Operating temperature -80°C to 155°C (Coating) -80°C to 538°C (Steel)

Mfr. List No.	Length (mm)	Width (mm)	Tensile Strength (N)	Order Code
163426x-2	230	5	1334	129-7933
163426x-3	330	5	1334	129-7941
1-163426x-0	330	10	2000	129-7938
				129-7944

x = 1 for uncoated, x = 2 for coated

449843

Mfrs. List No.	Order Code	1+	5+	10+
1634261-2	129-7933	37.29	35.42	33.30
1-1634261-0	129-7938	74.68	70.94	66.68
1634262-2	129-7940	37.02	35.17	33.06
1634262-3	129-7941	36.14	34.32	32.26
1-1634262-0	129-7944	40.04	38.03	35.75

## 700 products added online every week



See our pick of the hottest products and latest technologies in 'What's New?' at [www.farnell.co.uk](http://www.farnell.co.uk)



**Stainless Steel Cable Ties**

MBT series



The MBT (metal ball tie) range of stainless steel cable ties are manufactured from SS304, have good resistance against water, oils, a variety of solvents, alcohol and petrol. Type SS304 is for general, fire resistant fastening applications where a strong high tensile strength cable tie is required.

- Tie strap has safe, rolled edge dressing
- Manufactured from SS304
- Anti-magnetic
- Operating temperature -80°C to 538°C

Mfrs. List No.	Length	Width	Bundle dia (max)	Pack qty	Order Code
MBT5SS	127mm	4.6mm	25mm	100	129-3520
MBT8SS	201mm	4.6mm	50mm	100	129-3521
MBT14SS	362mm	4.6mm	102mm	100	129-3522
MBT20SS	521mm	4.6mm	152mm	100	129-3524
MBT14HS	362mm	7.9mm	102mm	50	129-3529
MBT27HS	681mm	7.9mm	203mm	50	129-3531

449735

Mfrs. List No.	Order Code	Price Per Pack			
		1+	5+	10+	50+
MBT5SS	129-3520	30.14	28.92	27.77	26.65
MBT8SS	129-3521	31.95	30.67	29.44	28.26
MBT14SS	129-3522	41.08	39.43	37.85	36.35
MBT20SS	129-3524	49.41	47.42	45.52	43.71
MBT14HS	129-3529	31.38	30.13	28.92	27.77
MBT27HS	129-3531	58.68	55.17	53.40	51.25
<b>Processing Tool</b>		<b>Price Each</b>			
MK9SST	107-9528	362.38			

**Stainless Steel Cable Ties**



- Non-releasable cable ties manufactured from marine grade 316 stainless steel
- Tough and corrosion resistant
- Lightweight and easy to handle

Operating temperature -80°C to +538°C

Mfrs. List No.	Length	Width	Maximum Bundle Dia.	Tensile Strength	
				(lbs)	(kg)
MAT8SS7	230	7	60	100	45
MAT12SS7	330	7	90	100	45
MAT16SS7	430	7	120	100	45
MAT24SS7	630	7	180	100	45
MAT12SS12	330	12	90	150	68
MAT24SS12	630	11.7	180	150	68

FOR SUITABLE INSTALLATION TOOL SEE ORDER CODE 330-8613

208348

Mfrs. List No.	Order Code	Price Each			
		1+	20+	50+	100+
MAT8SS7	841-985	0.940	0.860	0.780	0.710
MAT12SS7	841-997	1.030	0.960	0.910	0.840
MAT16SS7	842-000	0.880	0.840	0.750	0.693
MAT24SS7	842-011	0.910	0.810	0.740	0.690
MAT12SS12	842-035	1.270	1.200	1.060	0.960
MAT24SS12	842-059	1.200	1.090	1.000	0.930

**Steel Ladder Ties**



The Ladder tie is self-locking for easy application, even by hand. Available in grade 316 coated or un-coated, in 7 mm or 12 mm widths. The locking system gives a strong hold. Coated ties are recommended for added resistance to corrosion, chemical and weathering effects.

- Operating temperature: -80°C to 150°C (Coated), -80°C to 538°C (Steel)

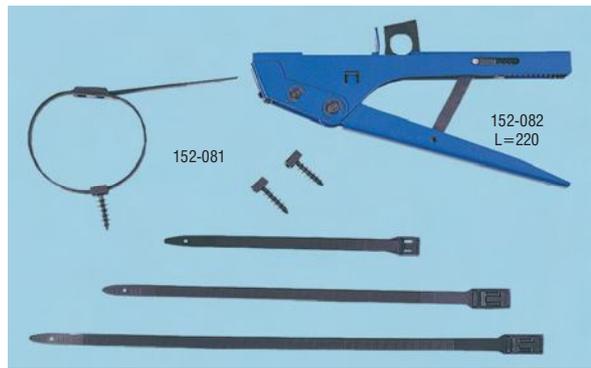
Mfrs. List No.	Length (mm)	Width (mm)	Max Bundle Diameter (mm)	Tensile Strength (kg)	Order Code	
					Uncoated	Coated
SHST200	200	7	60	44.5	164-8082	164-8088
SHST250	250	7	80	44.5	164-8083	164-8089
SHST300	300	7	95	44.5	164-8084	164-8090
SHST360	360	7	105	44.5	164-8085	164-8091
SHST450	450	7	115	44.5	164-8086	164-8092
SHST600	600	7	140	44.5	164-8087	164-8094

For Coated version, add suffix \*C\* to part no. ie: SHST200C

523369

100 Per Pack Mfrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
<b>Uncoated</b>				
SHST200	164-8082	30.56	29.64	28.75
SHST250	164-8083	36.24	35.15	34.10
SHST300	164-8084	41.67	40.41	39.20
SHST360	164-8085	44.91	43.56	42.26
SHST450	164-8086	60.87	59.05	57.27
SHST600	164-8087	81.97	79.51	77.12
<b>Uncoated</b>				
SHST200C	164-8088	41.38	40.14	38.93
SHST250C	164-8089	49.52	48.03	46.59
SHST300C	164-8090	56.55	54.86	53.21
SHST360C	164-8091	61.12	59.28	57.51
SHST450C	164-8092	82.75	80.27	77.87
SHST600C	164-8094	111.43	108.08	104.84

**Low Profile Ties and Accessories**



Black UV stabilised (Nylon 6) low 9mm profile head ties ideally suited for external use

- Use knock-in tie plug for fixed installation
- Heavy duty tool has separate cutting action lever
- Usable with all Hellermann ties 4.4 to 13mm wide

Mfrs. List No. LPH350 = 116-9003  
MK10 = 152-082

224072

Length	Max. Dia.	Order Code	Price Per Pack			
			1+	5+	10+	25+
335	92	116-9003	18.21	17.47	16.53	14.42
			<b>Price Each</b>			
			1+	5+	10+	
<b>Heavy Duty Tool</b>			152-082	35.43	32.16	26.79

**Steel Cable Ties**  
Locking Ball Mechanism



This cable tie is of a roller-ball design which is self locking and fast & easy to install. Available in grade 316 coated or un-coated, in 4.6 mm or 7.9 mm widths and various lengths. It can be tightened by hand or with a special tool. The fully coated roller ball tie is recommended for extreme cold conditions and offshore applications.

- Operating temperature: -80°C to 150°C (Coated), -80°C to 538°C (Steel)

Mfrs. List No.	Length (mm)	Width (mm)	Max Bundle Diameter (mm)	Tensile Strength (kg)
<b>Uncoated</b>				
SHSS200	200	4.6	50	44.5
SHSS200H	200	7.9	50	111.2
SHSS360	360	4.6	100	44.5
SHSS360H	360	7.9	100	111.2
SHSS520	520	4.6	150	44.5
SHSS520H	520	7.9	150	111.2
SHSS680	680	4.6	200	44.5
SHSS680H	680	7.9	200	111.2
<b>Coated</b>				
SHSS200C	200	4.6	50	44.5
SHSS200HC	200	7.9	50	55
SHSS360C	360	4.6	100	44.5
SHSS360HC	360	7.9	100	55
SHSS520C	520	4.6	150	44.5
SHSS520HC	520	7.9	150	55
SHSS680C	680	4.6	200	44.5
SHSS680HC	680	7.9	200	55

523359

100 Per Pack Mfrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
<b>Uncoated</b>				
SHSS200	164-8063	29.93	29.03	28.16
SHSS200H	164-8064	33.39	32.39	31.42
SHSS360	164-8065	34.79	33.75	32.74
SHSS360H	164-8066	40.58	39.36	38.18
SHSS520	164-8067	38.25	37.11	36.00
SHSS520H	164-8069	54.01	52.39	50.82
SHSS680	164-8071	49.39	47.91	46.47
SHSS680H	164-8072	55.17	53.52	51.92



## Stainless Steel/Aluminium Cable Ties - continued

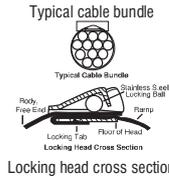
### Steel Cable Ties - continued

#### Locking Ball Mechanism - continued

100 Per Pack Mfrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
<b>Uncoated</b>				
SHSS200C	164-8073●	58.42	56.66	54.96
SHSS200HC	164-8074●	61.90	60.05	58.24
SHSS360C	164-8075●	65.39	63.43	61.53
SHSS360HC	164-8076●	71.18	69.04	66.97
SHSS520C	164-8077●	73.50	71.30	69.16
SHSS520HC	164-8078●	89.02	86.34	83.75
SHSS680C	164-8079●	92.75	89.96	87.26
SHSS680HC	164-8080●	110.13	106.83	103.62

### PAN-STEEL™ Stainless Steel Ties

#### Locking Ball Mechanism



- Engineered for the most extreme applications.
- World's highest rated loop tensile strength.
- Aggressive head design provides higher retained tension to really secure that bundle.
- Patented ball locking design for additional security (improved vibration resistance).
- 30-year life span for installation you can rely on.
- Resists chemicals, radiation, weather and extreme temperature.
- Conforms to MIL-S-23190 requirements

Operating temperature -80°C to +538°C

Mfrs. List No.	Length	Width	Bundle Dia.	Tensile Strength		Order Code
				(lbs)	(kg)	
<b>Standard</b>						
MLT1S-CP	127	4.4	25	200	45	117-9866
MLT2S-CP	200	4.6	50	200	45	117-9874
MLT2.7S-CP	259	4.4	69	200	45	117-9867
MLT4S-CP	360	4.6	102	200	45	117-9875
MLT6S-CP	520	4.4	152	200	45	117-9869
MLT8S-CP	679	4.4	203	200	45	117-9870
MLT10S-CP	838	4.4	254	200	45	117-9872
<b>Heavy Duty</b>						
MLT2H-LP	200	7.9	50	450	113	117-9877
MLT4H-LP	360	7.9	102	450	113	117-9878
MLT6H-LP	521	7.9	152	450	113	117-9873

Mfrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
<b>Standard - 100 Per Pack</b>				
MLT1S-CP	117-9866●	33.51	31.83	25.30
MLT2S-CP	117-9874●	34.98	33.22	31.55
MLT2.7S-CP	117-9867●	39.45	37.47	35.60
MLT4S-CP	117-9875●	41.53	39.45	37.47
MLT6S-CP	117-9869●	48.07	45.67	43.38
MLT8S-CP	117-9870●	56.32	53.50	50.82
MLT10S-CP	117-9872●	68.17	--	--
<b>Heavy Duty - 50 Per Pack</b>				
MLT2H-LP	117-9877●	42.25	40.13	38.13
MLT4H-LP	117-9878●	47.36	44.98	42.72
MLT6H-LP	117-9873●	61.92	58.81	55.88

### Cable Ties

#### Coated Steel



- Innovative locking head construction
- Fully coated body construction
- Base 316 stainless steel with polyester coating
- Patented self-locking design

#### Standard Cross-Section

Mfrs List No.	Length (mm)	Width (mm)	Bundle Diameter		Thickness (mm)
			Min (mm)	Max (mm)	
MLTFC2S-CP316	201	4.6	12.7	51	0.25
MLTFC4S-CP316	362	4.6	12.7	102	0.25
MLTFC6S-CP316	521	4.6	12.7	152	0.25
MLTFC8S-CP316	679	4.6	12.7	203	0.25

#### Heavy Cross-Section

Mfrs List No.	Length (mm)	Width (mm)	Bundle Diameter		Thickness (mm)
			Min (mm)	Max (mm)	
MLTFC2H-LP316	201	7.9	12.7	51	0.25
MLTFC4H-LP316	362	7.9	12.7	102	0.25

Mfrs List No.	Length (mm)	Width (mm)	Bundle Diameter		Thickness (mm)
			Min (mm)	Max (mm)	
MLTFC6H-LP316	521	7.9	12.7	152	0.25
MLTFC8H-LP316	679	7.9	12.7	203	0.25

485853

100 Per Pack Mfrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
MLTFC2S-CP316	147-1638●	98.10	93.19	88.54
MLTFC4S-CP316	147-1639●	136.24	129.42	122.96
MLTFC6S-CP316	147-1640●	174.96	166.22	157.90
MLTFC8S-CP316	147-1641●	226.05	214.75	204.01
<b>50 Per Pack</b>				
MLTFC2H-LP316	147-1642●	59.43	56.45	53.64
MLTFC4H-LP316	147-1643●	82.54	78.41	74.50
MLTFC6H-LP316	147-1644●	102.93	97.78	92.89
MLTFC8H-LP316	147-1645●	132.98	126.32	120.00

### Stainless Steel Mounting Clips



- Mounting clip manufactured in AISI 302/304 stainless steel
- Ideal for use with Panduit Stainless Steel ties.
- Matched performance for lifelong service.

Length (mm)	Width (mm)	Fixing Hole Dia. (mm)	Mounting Method	Order Code
22.6	10.2	4.4	4mm Screw	147-1675
22.6	10.2	5.4	5mm Screw	147-1676
22.6	10.2	7.14	6mm Screw	117-9879

208094

100 Per Pack Mfrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
MTM1H-C	147-1675●	64.57	49.15	38.85
MTM1H10-C	147-1676●	64.57	49.15	38.85
MTM1H25-C	117-9879●	67.97	51.73	40.89

### Push Mount



- No tapping required
- Used where only one side of the panel is accessible
- Nothing to assemble
- For use with standard, light-heavy and heavy cross section Pan-Steel® Ties
- 304 Stainless Steel

Mfrs. List No.	Diameter (mm)	Width (mm)	Height (mm)	Panel Thickness (mm)
MPWM-H56-Q	8	7.3	24.7	0.8 - 2.4

485535

25 Per Pack Mfrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
MPWM-H56-Q	147-1674●	29.95	28.44	27.02

### Cable Tie Mount



- Zero profile
- Mounts directly to surface
- Used where only one side of the panel is accessible

- Permanent, secure application
- Used with standard, light-heavy and heavy cross section Pan-Steel® Ties
- 304 Stainless Steel

Mfrs. List No.	Length (mm)	Width (mm)	Height (mm)	Max. Panel Thickness (mm)
MTMBH-Q	48.5	5.3	13.7	12.7

485516

25 Per Pack Mfrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
MTMBH-Q	147-1671●	18.88	17.94	17.03

### Push Button Mount



- Low profile
- No tapping required
- Designed for use only where both sides of the panel are accessible
- For use with standard cross section Pan-Steel® Ties
- 304 Stainless Steel

Mfrs. List No.	Diameter (mm)	Width (mm)	Height (mm)	Panel Thickness (mm)
MBM-H25-Q	10.0	5.0	6.5	0.8 - 4.0

485525

25 Per Pack		Price Per Pack		
Mfrs. List No.	Order Code	1+	5+	10+
MBM-H25-Q	147-1672●	11.03	10.48	9.96

2-Way Mount



- Low profile
- Allows stainless steel cable ties to be inserted from either of two sides
- Single hole center mounting for maximum holding and stability
- Maximum screw head height .09 inch (2.3mm)
- For use with standard, light-heavy and heavy cross section Pan-Steel® Ties
- 304 Stainless Steel

Mfrs. List No.	Hole Diameter (mm)	Length/Width (mm)	Height (mm)	Mounting Method*
MTM2H-Q	4.5	18.0 x 18.0	8.0	4 mm Screw

\*Stainless steel screws are recommended for fastening to avoid corrosion problems associated with dissimilar metals

485539

25 Per Pack		Price Per Pack		
Mfrs. List No.	Order Code	1+	5+	10+
MTM2H-Q	147-1670●	23.96	22.76	21.61

Cable Tie Installation Tools

Cable Tie Installation Tools



- Economical series of tools for maintenance or construction applications
- Install cable tie around bundle and tension tie by squeezing tool handle
- Reduce tension slightly and twist tool 1/4 turn either direction to cut off excess cable tie
- With 1015662, Install cable tie around bundle and tension tie by squeezing tool handle. A separate lever cuts off excess cable tie
- Excellent tool for low volume applications

Colour	Tie Width (mm)	Order Code
Black	upto 4.6	101-5659
Red	4.6 - 8.9	101-5660
Blue / Black	7.6 - 12.7	147-1677
Yellow	7.6 - 8.9	101-5662

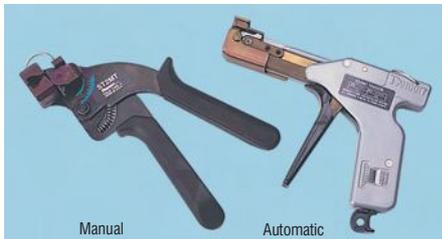
419707/436617

Order Code	1+	3+
101-5659	19.86	17.89
101-5660	23.25	20.94
147-1677	167.85	159.45
101-5662	37.27	33.56

Turn to page 84 for Cable Ties

Installation Tools

Manual or Automatic



- Two hand tools for use with PAN-STEEL™ stainless steel ties. Both types are single handle operation for easy use and installation
- **ST2MT** - Tensioning is operator controlled. Tie is cut by twisting the tool
- **GS4MT** - Tensioning and cut off is automatic when predetermined tension is reached by squeezing trigger
- Both suitable for either standard or heavy duty ties

208083/438608

Type	Mfrs. List No.	Order Code	1+	10+
Manual	ST2MT	592-778	148.22	145.27
Automatic	GS4MT	592-780	690.55	642.20

Over 480,000 products online



Installation Tools



- Lightweight, ergonomic design speeds installation and reduces operator fatigue and repetitive motion injuries
- Flush tie cut-off eliminates sharp edges and improves safety by preventing damage to adjacent wire bundles and injury to workers' hands and arms

Mfrs. List No.	Install Cable Tie Cross Section	Description
GTS	Subminiature, Miniature, Intermediate, Standard	Trigger Handle: Black, Selector Knob: Black, Cushioned Handle: Black. Body: Gray, Weight: 9.8 oz. (278 g)
GTSL	Subminiature, Miniature, Intermediate, Standard	Ergonomic design with impact resistant resin housing, narrow nose, and cushion handle. Shorter handle reach (than GTS) for users with smaller hands. Weight 8.8 oz. (249g)
GTH	Standard, Heavy-Standard, Light-Heavy, Heavy	Trigger Handle: Red, Selector Knob: Red, Cushioned Handle: Red. Body: Gray, Weight: 12.0 oz. (340 g)

GHH Hand Tool Holster

- Designed to hold GT series tools
- Used wherever the hand tools are used - from construction sites to assembly lines for a convenient and handy place for the tool
- All leather and rivet construction for durability
- Extra tie-down strap holds tool in place
- Easily fits on belt

485560

Mfrs. List No.	Order Code	1+	5+	10+
GTS	147-1679	103.64	98.45	93.52
GTSL	147-1680	103.64	98.45	93.52
GTH	147-1681	151.61	144.02	136.82
GHH	147-1682	17.98	17.07	16.23

Tensioning Tool



- Economical
- Coiled tie end remaining after tensioning assures a safe end
- No sharp edges
- Manual tension, no cut-off
- Installs ties parallel to the bundle

Used with standard, light-heavy, and heavy cross section Pan-Steel® type MLT ties, type MLTC/MLTFC coated ties, and type MLTDH double wrapped ties

485548

Mfrs. List No.	Order Code	1+	5+	10+
HTMT	147-1678	9.51	9.03	8.58

Cable Tie Installation Tools



- Installation tools suitable for use with Hellermann cable ties. Either low cost hand controlled plastic tool, or standard metal tool with adjustable preset tensioner and automatic cutter

Mfrs. List No. MK20 = 151-306 MK3 = 235-544

224077

	Tie Width	Order Code	1+	5+	10+
Plastic tool	2.5-4.8	151-306	14.55	13.89	12.75
Metal tool	2.5-4.8	235-544	151.55	141.77	125.43

Stainless Steel Cable Tie Tool



**Cable Tie Installation Tools - continued**

**Stainless Steel Cable Tie Tool - continued**

- For use with Hellermann Tyton MAT ties
- Simple ratchet operation
- Tensioning and cutting facilities
- Lightweight and easy to use

208354

Mfrs. List No.	Order Code	1+	5+	10+
MTT4	330-8613	197.09	178.65	160.40

**MK7 Cable Tie Installation Tool**



The MK7 Cable Tie Installation Tool with its ergonomic design can be used anywhere. The casing is made of glass fibre reinforced polyester making it extraordinarily light. The MK7 is a state of the art tool for applying HellermannTyton cable ties up to a width of 4.8mm. The MK7 has a three level preset tension device for quick adjustment. Further adjustment is possible within each level. MIL approved.

- For use with T18, T25, T30, T40, T50L, T50M sizes of Hellermann Cable Ties
- Maximum Strap Width = 4.8mm
- Maximum Strap Thickness = 1.5mm

449781

Mfrs. List No.	Order Code	1+	5+	10+
MK7.9A	129-6250	167.94	162.13	155.07

**MK9 Cable Tie Installation Tool**



The MK9 for applying HellermannTyton cable ties up to a width of 13.5mm, is characterised by its very light weight and ergonomic design. Like the MK7, the housing is made of resilient and light weight glass fibre reinforced polyester. The MK9 has two preset tension levels and a device for fine adjustment. MIL approved.

- For use with T80 or larger sizes of Hellermann Cable Ties
- Maximum Strap Width = 13.5mm
- Maximum Strap Thickness = 2.0mm

449784

Mfrs. List No.	Order Code	1+	5+	10+
MK9.9A	129-6251	138.88	134.03	127.59

For Steel Ties see page 98

**Help us to help the environment**



This catalogue has been printed on paper certified from a sustainable source. Please recycle after use.

**Stainless Steel Cable Tie Tool**



- With automatic cut off for unwanted tie tail
- Thickness of tie: up to 3.0mm
- Width of tie: up to 7.9mm

449844

Mfrs. List No.	Order Code	1+	5+	10+
1814428-1	129-7947	203.90	193.71	184.01

**Cable Tie Installation Tools**



**ERG50 and ERG120**

- Lightweight with adjustable grip for small or large hands
- Rotating head for left or right handed users
- ERG50 (black handle) covers tie widths 2.4mm to 4.8mm, tensile ratings 80N to 220N
- ERG120 (orange handle) covers tie widths 4.8mm to 7.6mm, tensile rating up to 540N

**WT1 or WT2**

- Manufactured in rugged and lightweight high impact plastic
- WT1 covers tie widths 2.4mm to 4.7mm
- WT2 covers tie widths 4.7mm to 7.6mm

473906

Tie Width	Mfrs. List No.	Order Code	1+	5+	10+
2.4mm to 4.8mm	ERG50	134-2672	127.99	124.15	120.43
4.8mm to 7.6mm	ERG120	134-2673	134.78	130.73	127.08
2.4mm to 4.8mm	WT1	121-2511	13.27	13.01	11.71
4.7mm to 7.6mm	WT2	121-2512	18.54	18.18	16.32

**Cable Tie Installation Tools**



WT1 or WT2

- Manufactured in rugged and lightweight high impact plastic
- WT1 covers tie widths 2.4mm to 4.7mm
- WT2 covers tie widths 4.7mm to 7.6mm

224082

Tie Width	Mfrs. List No.	Order Code	1+	5+	10+
2.4mm to 4.7mm	WT1	121-2511	13.27	13.01	11.71
4.7mm to 7.6mm	WT2	121-2512	18.54	18.18	16.32

**P-Clips**



**Fixed Diameter Cable Clamps**



Durable nylon cable clamps available in a selection of sizes. Available in natural nylon or black, weather resistant nylon.

Width (mm)	Bundle Offset (mm)	Max. Bundle Dia. (mm)	Mounting	Natural Order Code	Black Order Code
9.4	8.4	3.1	M4 Screw	101-5007	101-5265
9.4	10.9	4.8	M4 Screw	101-5008	101-5267
9.4	10.4	6.3	M4 Screw	101-5009	101-5268
9.4	10.4	6.3	M5 Screw	101-5010	101-5269
9.4	12.4	7.9	M4 Screw	101-5012	101-5270
9.4	15	9.5	M4 Screw	101-5013	101-5271
9.4	14.5	11.1	M4 Screw	101-5014	101-5272
9.4	15.2	12.7	M4 Screw	101-5015	101-5273
12.7	9.1	3.1	M5 Screw	101-5016	101-5274
12.7	10.7	4.8	M5 Screw	101-5017	101-5275
12.7	11.7	6.3	M5 Screw	101-5018	101-5276
12.7	12.7	7.9	M5 Screw	101-5019	101-5277
12.7	13.5	9.5	M5 Screw	101-5020	101-5279
12.7	14.2	11.1	M5 Screw	101-5021	101-5281
12.7	15	12.7	M5 Screw	101-5022	101-5282
12.7	15.5	14.2	M5 Screw	101-5024	101-5283
12.7	16.5	15.7	M5 Screw	101-5025	101-5284
12.7	19.1	17.5	M5 Screw	101-5026	101-5285
12.7	19.8	19.1	M5 Screw	101-5027	101-5286
12.7	20.6	20.6	M5 Screw	101-5028	101-5287
12.7	21.3	22.1	M5 Screw	101-5029	101-5288
12.7	23.1	25.4	M5 Screw	101-5030	101-5289

419482/436546

100 Per Pack Mfrs. List No.	Order Code	Price Per Pack	
		1+	3+
<b>Natural / Nylon</b>			
CCS12-S8-C	101-5007	5.80	5.22
CCS19-S8-C	101-5008	5.71	5.14
CCS25-S8-C	101-5009	5.73	5.15
CCS25-S10-C	101-5010	5.73	5.15
CCS31-S8-C	101-5012	6.32	5.70
CCS38-S8-C	101-5013	6.69	6.02
CCS44-S8-C	101-5014	6.86	6.16
CCS50-S8-C	101-5015	7.02	6.31
CCH12-S10-C	101-5016	8.72	7.86
CCH19-S10-C	101-5017	9.06	8.14
CCH25-S10-C	101-5018	9.14	8.24
CCH31-S10-C	101-5019	9.51	8.54
CCH38-S10-C	101-5020	10.12	9.11
CCH44-S10-C	101-5021	10.62	9.58
CCH50-S10-C	101-5022	10.77	9.70
CCH56-S10-C	101-5024	11.59	10.42
CCH62-S10-C	101-5025	12.04	10.84
CCH69-S10-C	101-5026	12.24	11.02
CCH75-S10-C	101-5027	12.46	11.23
CCH81-S10-C	101-5028	12.84	11.57
CCH87-S10-C	101-5029	13.23	11.91
CCH100-S10-C	101-5030	14.95	13.46
<b>Black / Weather Resistant Nylon</b>			
CCS12-S8-C0	101-5265	6.69	6.02
CCS19-S8-C0	101-5267	6.57	5.92
CCS25-S8-C0	101-5268	6.57	5.92
CCS25-S10-C0	101-5269	6.57	5.92
CCS31-S8-C0	101-5270	7.28	6.55
CCS38-S8-C0	101-5271	7.68	6.91
CCS44-S8-C0	101-5272	7.95	7.15
CCS50-S8-C0	101-5273	8.08	7.27
CCH12-S10-C0	101-5274	10.03	9.01
CCH19-S10-C0	101-5275	10.40	9.36
CCH25-S10-C0	101-5276	10.49	9.46
CCH31-S10-C0	101-5277	10.92	9.83
CCH38-S10-C0	101-5279	11.63	10.46
CCH44-S10-C0	101-5281	12.22	11.00
CCH50-S10-C0	101-5282	12.38	11.15
CCH56-S10-C0	101-5283	13.32	11.98
CCH62-S10-C0	101-5284	13.85	12.45
CCH69-S10-C0	101-5285	14.07	12.66
CCH75-S10-C0	101-5286	14.34	12.90
CCH81-S10-C0	101-5287	14.78	13.31
CCH87-S10-C0	101-5288	15.23	13.72
CCH100-S10-C0	101-5289	17.21	15.48

**Nylon P Clip**



Operating Temp. -45°C to +90°C  
Mounting Hole Dia. 4.2mm  
Colour White

238806

Type	CableØ (mm)	Order Code	Price Per Pack (10)			
			1+	5+	10+	50+
H1P	3.2	836-722	0.91	0.66	0.52	0.41
H2P	5.0	836-734	0.99	0.76	0.60	0.45
H3P	6.5	836-746	1.07	0.80	0.64	0.49
H4P	8.0	836-758	1.22	0.92	0.74	0.55
H5P	9.5	836-760	1.24	0.95	0.75	0.57
H6P	11	836-771	1.23	0.93	0.73	0.57
H8P	14	836-783	2.36	1.80	1.39	1.09
H12P	20.5	836-795	2.77	2.09	1.65	1.27

**P-Clips, Nylon**



A range of Natural nylon P-clips for the positive fixing of cables, looms and pipes up to 3mm diameter.

Operating Temperature -20°C to +85°C  
Nominal fixing hole diameter 5mm  
Clip width 9.5mm

224090

Pack Qty	Nom Cable Dia.	Order Code	Price Per Pack			
			1+	3+	5+	10+
100	3	146-173	6.56	6.16	5.78	5.55

**P-Clips, Nylon**



- P-clips manufactured in flame retardant Natural Nylon 66
- Suitable for fixing cables, looms etc up to 25.4mm diameter.

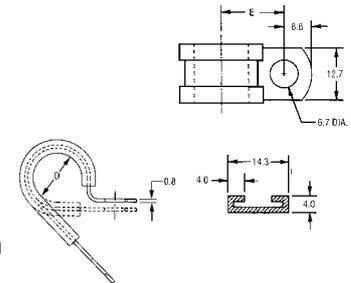
Operating Temperature -40°C to +85°C Fixing Hole Diameter 4.6mm

208056

100 Per Pack Nominal Bundle Dia.	Clip Width	Order Code	Price Per Pack			
			1+	5+	10+	50+
3.2	9.6	141-6072	3.26	2.87	2.55	2.13
4.8	9.6	141-6073	3.56	3.16	2.81	2.30
6.35	10	141-6074	3.83	3.44	3.02	2.48
7.9	10	141-6075	4.11	3.61	3.21	2.66
9.5	12	141-6076	4.39	3.91	3.46	2.83
12.7	12	141-6077	5.77	5.10	4.55	3.73
15.8	12	141-6079	6.33	5.61	4.97	4.10
19.4	12	141-6081	8.60	7.65	6.79	5.61
25.4	12	121-8018	10.44	9.23	7.99	6.89

**P-Clamp, Steel**

Zinc Plated with Santoprene Cushion

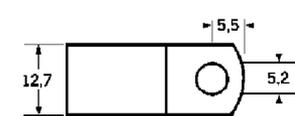
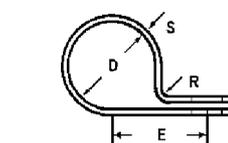


- Secure clamping of cables
- Santoprene cushion prevents chating

208311

25 Per Pack D	E	Order Code	Price Per Pack
4.8	12.7	120-2527	9.27
6.4	13.5	120-2528	11.62
9.5	15	120-2529	10.14
12.7	16.5	120-2530	13.39
19.1	21.3	120-2531	17.60
25.4	24.4	120-2532	17.78

**Aluminium P-Clip**



Offering a simple yet secure fixing, this range of clips can be used as a simple pipe or cable fixing (for example within caravan construction) or with the addition of the Chlorprene insert can be used to secure parts subject to vibration (for example to retain capacitors on a PCB).

Material Aluminium Metal Temperature Range -40°C to +180°C

Dimensions in mm							
Type	D	E	R	S	Type	D	E
4	6.4	11.6	1.6	0.8	6	9.5	13.4
5	8.0	12.6	1.6	0.8	7	11.1	14.2

240768

Type	Order Code	Price Per Pack (100)	
		1+	5+
4	852-272	55.72	49.63
5	852-284	55.72	49.63
6	852-296	59.43	52.99
7	852-302	59.43	52.99



**P-Clips - continued**

**P-Clips, Aluminium**



- Secure clamping of cables
- P-clips manufactured in Aluminum Alloy
- Suitable for fixing cables, looms etc up to 15.9mm diameter

483024

100 Per Pack		Price Per Box					
Bundle Dia. (mm)	Clip Width (mm)	Order Code	1+	5+	10+	25+	50+
3.2	9.5	145-4785	7.08	6.89	6.68	6.48	6.29
4.8	9.5	145-4786	8.15	7.93	7.68	7.46	7.22
6.4	9.5	145-4787	8.54	8.30	8.05	7.80	7.57
7.9	9.5	145-4788	8.77	8.54	8.29	8.03	7.78
9.5	9.5	145-4789	14.19	13.80	13.39	12.99	12.59
11.1	9.5	145-4790	12.78	12.41	12.04	11.69	11.33
12.7	9.5	145-4792	13.24	12.86	12.47	12.10	11.73
14.3	9.5	145-4793	16.27	15.81	15.36	14.90	14.46
15.9	9.5	145-4794	16.80	16.33	15.86	15.40	14.92

**Cable Clips & Cord**

**Circular Cable**



- A range of robust plastic cable clips assembled with hardened steel zinc plated masonry pins
- Available in white, grey and black

224091

100 Per Box		Price Per Box					
Cable Dia.	Order Code	1+	5+	10+	25+	50+	
White	2.75mm	150-824	2.09	1.98	1.81	1.55	1.23
	4mm	150-331	2.13	2.01	1.85	1.57	1.26
	5mm	150-332	2.12	2.06	1.97	1.86	1.78
	6mm	150-825	2.13	2.08	1.97	1.83	1.76
	7mm	150-333	2.22	2.15	2.02	1.77	1.69
	8mm	150-826	2.29	2.24	2.10	1.81	1.67
	9mm	150-334	2.47	2.38	2.18	1.92	1.60
	10mm	150-827	3.27	3.04	2.69	2.27	2.14
	11mm	150-335	3.55	3.32	2.96	2.52	2.29
	Grey	5mm	151-660	1.10	1.06	0.95	0.90
6mm		151-664	1.92	1.81	1.66	1.55	1.23
7mm		151-665	1.95	1.83	1.68	1.57	1.25

**TV Clips**



- Black UV stabilised polypropylene cable clips with especially hardened masonry pins
- Round design enables clip to be attached to cables before fixing.

219620

100 Per Box		Price Per Box				
Cable Dia.	Order Code	1+	5+	10+	25+	50+
5 - 6	611-931	2.07	2.01	1.94	1.74	1.67
6 - 7	611-943	2.10	2.04	1.98	1.80	1.71
7 - 8	611-955	2.49	2.44	2.31	2.13	2.05

**Round Cable Clips**



- Tough PE clip, elasticity and shock resisting
- High impact nail attached
- Available in Black or White
- Various sizes available to fit round cable
- 100 per box

27 4397/480779

Cable size		Price Per Box			
Colour	Order Code	1+	5+	10+	10+
3.5 mm	White	142-5099	0.43	0.43	0.41
3.5 mm	Black	142-5100	0.43	0.43	0.41
4.0 mm	White	142-5101	0.51	0.51	0.49
4.0 mm	Black	142-5102	0.51	0.51	0.49
5.0 mm	White	142-5103	0.51	0.51	0.49
5.0 mm	Black	142-5104	0.51	0.51	0.49
6.0 mm	White	142-5105	0.60	0.60	0.58
6.0 mm	Black	142-5106	0.60	0.60	0.58

Cable size	Colour	Order Code	Price Per Box	
			1+	10+
7.0 mm	White	142-5107	0.62	0.60
7.0 mm	Black	142-5108	0.62	0.60
8.0 mm	White	142-5111	0.69	0.67
8.0 mm	Black	142-5112	0.69	0.67
12.0 mm	Black	142-5113	0.86	0.83

**Coaxial Cable Clips**



- Tough PVC clip, elasticity and shock resisting
- Hardened metal nail

274414/480788

Cable Type		Price Per Box			
Colour	Order Code	1+	5+	10+	10+
5-6 mm	White	142-5120	0.71	0.71	0.65
6-7 mm	Brown	142-5121	0.72	0.72	0.66
6-7 mm	White	142-5123	0.73	0.73	0.67
6-7 mm	Black	142-5124	0.73	0.73	0.67

For Coaxial Cables see page 53

**Flat Cable Clips**



- Flat cable clips for Twin & Earth cables
- Tough PE clip, elasticity and shock resisting
- Hardened metal nail
- Available in Grey or White

274403/480783

Cable Type		Pack qty	Order Code	Price Per Box	
Colour	Order Code	1+	5+	10+	10+
1.00mm T&E	Grey	100	142-5114	0.97	0.92
1.00mm T&E	White	100	142-5115	0.97	0.92
1.50mm T&E	Grey	100	142-5116	1.07	1.02
1.50mm T&E	White	100	142-5117	1.07	1.02
2.50mm T&E	Grey	100	142-5118	1.17	1.11
2.50mm T&E	White	100	142-5119	1.17	1.11

**Pin Plugs**



- Grey polypropylene wall plugs for fixing cable clips when wall is too hard for standard clip masonry pins
- Drill size=5  
Length=18

208103

100 Per Box		Price Per Box				
Order Code	1+	5+	10+	25+	50+	
611-920	2.43	2.33	2.08	1.81	1.71	

**Cable Cleats**



Cable Size	Range	
	Min. (mm)	Max. (mm)
NP4	7.6	10.2
NP5	10.5	12.5
NP6	12.7	16
NP7	14.3	17.6
NP8	15.5	21.5
NP9	17.6	22.4
NP10	19.7	25.8

208321

25 Per Pack		Price Per Pack				
Order Code	1+	5+	10+	25+	50+	
NP4 725-7338	1.17	1.08	1.01	0.95	0.89	
NP5 725-7340	0.59	0.54	0.52	0.48	0.45	
NP6 725-7351	1.44	1.31	1.23	1.16	1.09	
NP7 725-7363	1.82	1.62	1.55	1.45	1.34	
NP8 725-7375	1.79	1.61	1.53	1.44	1.33	
NP9 725-7387	1.96	1.78	1.66	1.57	1.45	
NP10 725-7399	2.06	1.88	1.77	1.65	1.54	

Self-Adhesive Releasable Nylon



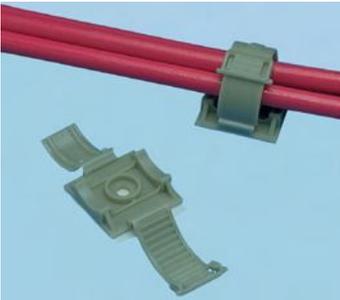
- Snap action, self-adhesive releasable cable clips
- Manufactured in flame retardant Black Nylon 66 to UL94V-2
- Accepts M4 fixing screw if required
- Suitable for fixing cables, looms etc. up to 18mm diameter

Operating Temperature -40°C +85°C

208055

100 Per Pack		Price Per Pack					
Cable Dia. (mm)	Base L (mm)	Dimensions W (mm)	Order Code	1+	5+	10+	50+
6	25.8	13.4	126-9018	11.09	9.97	8.91	7.92
9	29.4	13.4	126-9019	11.54	10.42	9.34	8.24
12	35.5	16.4	126-9020	9.11	8.22	7.34	6.52
14	36.5	16.4	126-9022	13.77	12.39	11.07	9.87
16	38.5	16.4	126-9024	11.25	10.14	9.06	8.05
18	42	16.4	126-9025	15.20	13.61	12.24	10.87

Adjustable And Releasable Clamps



- Fast and convenient method of securing bundles from 4.8mm up to 17.5mm diameter
- Available with adhesive backing or screw applied with one M3 screw

Colour	Length (mm)	Width (mm)	Bundle Dia. Range (mm)	Max. Static Load (g)	Mounting Method	Order Code
Natural	25.4	25.4	4.8-17.5	227	Rubber	101-4887
Grey	25.4	25.4	4.8-17.5	227	Adhesive	101-4888
Natural	25.4	25.4	4.8-17.5		M3 Screw	101-4889
Grey	25.4	25.4	4.8-17.5		M3 Screw	101-4890

419595/436509

25 Per Pack		Price Per Pack		
Mftrs. List No.	Order Code	1+	5+	3+
ARC.68-A-Q	101-4887	13.25	11.93	
ARC.68-A-Q14	101-4888	14.56	13.12	
ARC.68-S6-Q	101-4889	9.63	8.66	
ARC.68-S6-Q14	101-4890	10.58	9.55	

Hinged Mains Cable Clamp



- Clamp cables in place on a DIN Rail
- Only 1 mounting screw required
- The range covers cable diameters up to 12mm
- Moulded in Black Nylon 6.6
- Supplied in Packs of 40

524565

Mftrs. List No.		Price Per Pack			
Order Code	1+	5+	10+	50+	
HMCC-4-01BK	165-7539	9.37	9.08	8.81	8.37

Hinged Mains Cable Clamp



- Moulded in Natural and Black Nylon 6/6
- The range covers cable diameters up to 20.9mm

483032

100 Per Pack		Price Per Pack				
Bundle Dia.	Colour	Order Code	1+	5+	10+	50+
15.1	Natural	145-4795	14.97	14.56	14.13	13.73
20.9	Black	145-4796	14.97	14.56	14.13	13.73

Self-Adhesive Nylon



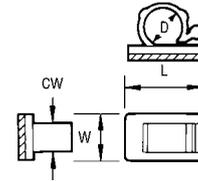
- Designed for applications whose fixing holes would be impractical or unsightly
- Moulded in natural nylon to UL94V-2

Cable dia.=4.8  
Base dimensions=15.5 x 16

208168

100 Per Pack		Price Per Pack		
Order Code	1+	5+	10+	50+
121-8027	7.74	6.65	5.97	5.52

Self-Adhesive Nylon



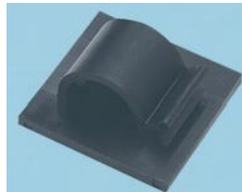
- Designed for applications where fixing holes would be impractical or unsightly
- The range covers cable diameters from 3 to 18mm and the snap action clip speeds assembly time
- Moulded in Natural Nylon 66.

Cable Dia D	Base W	Dimensions L	Clip Width CW	Mftrs. List No.	Order Code
3	12	13	5.0	RA3(50 PACK)	116-8957
6	19	19	5.0	RA6(50 PACK)	116-8958
9	19	19	7.5	RA9(50 PACK)	116-8959
13	25	25	10.0	RA13(50 PACK)	116-8960
18	25	30	10.0	RA18(50 PACK)	116-8961

224086

50 Per Pack		Price Per Pack			
Order Code	1+	5+	10+	50+	
116-8957	5.89	5.43	4.82	4.12	
116-8958	6.45	6.00	5.35	4.61	
116-8959	6.88	6.33	5.66	4.87	
116-8960	8.53	7.94	6.98	5.97	
116-8961	10.00	9.20	8.22	7.02	

Self-Adhesive Nylon



- Designed for applications whose fixing holes would be impractical or unsightly
- Cover cable diameters 5 to 14mm
- Moulded in Natural or Black Nylon 66

Cable Dia.	Base		Natural Mftrs.	Order Code	Black	
	W	L			Mftrs.	Order Code
5	19	19	RB5-NAT(50 PACK)	116-9049	RB5-BLK(50 PACK)	116-9053
8	25	25	RB8-NAT(50 PACK)	116-9050	RB8-BLK(50 PACK)	116-9054
14	28	33	RB14-NAT(50PACK)	116-9052	RB14-BLK(50PACK)	116-9055

208909

50 Per Pack		Price Per Pack			
Cable Dia	Order Code	1+	5+	10+	50+
Natural 5	116-9049	4.51	4.16	3.68	3.12
Natural 8	116-9050	5.83	5.42	4.82	4.12
Natural 14	116-9052	8.59	8.00	7.04	6.01
Black 5	116-9053	4.51	4.15	3.67	3.12
Black 8	116-9054	5.65	5.26	4.65	3.99
Black 14	116-9055	8.59	8.00	7.04	6.01

Flat Cable Clamps



- A two-piece nylon cable clamp for bundling flat cable, which may be released and reused. Available in two versions, screw mounting or adhesive mounting

Note: Full strength on adhesive mounting types achieved after 24 hours.

No. of Ribbon Conductors	Cable Width	Capacity Height	Order Codes	
			Screw Mounting	Adhesive Mounting
20	25.4	12.7	121-2499	121-2501
40	50.8	25.4	162-3293	121-2502
60	76.2	25.4	121-2500	121-2504



**Cable Clips & Cord - continued**

**Flat Cable Clamps - continued**

224089

Order Multiple=5					
No. of Ribbon Conductors	Mftrs. List No.	Order Code	5+	Price Each	100+
<b>Screw Mounting</b>					
20	FCC-1	121-2499●	0.59	0.56	0.45
40	FCC-2	162-3293●	0.71	0.69	0.67
60	FCC-3	121-2500●	0.67	0.62	0.51
<b>Adhesive Mounting</b>					
20	FCC-1A	121-2501●	1.35	1.30	1.23
40	FCC-2A	121-2502●	1.47	1.39	1.31
60	FCC-3A	121-2504●	1.72	1.63	1.55

**Ribbon Cable Clamps - Self-Adhesive**



- A range of moulded nylon clamps for ribbon cable up to 64 way
- Unique method of clamping allows several layers of cable to be clamped
- 6BA countersunk screw fixing

No. of Ribbon Conductors	Length	Maximum Cable Width	Height	Fixing Centres	Order Code
26	51	33	17	42	145-426
40	76	67	17	67	145-427
64	107	85	17	98	145-428

224088

Order Multiple=5						
No. of Ribbon Conductors	Order Code	5+	25+	Price Each	100+	250+
26	145-426	0.270	0.220	0.199	0.187	0.175
40	145-427	0.310	0.270	0.260	0.250	0.220
64	145-428	0.340	0.310	0.290	0.280	0.270

**Ribbon Cable Clamps - Self-Adhesive**



- One-piece releasable ribbon cable clamps in Natural Nylon 66
- Self-adhesive foam pad
- Flame retardant to **UL94V-2**

No. of Ribbon Conductors	Max. Cable Width	Overall Length	Overall Width	Overall Height	Order Code
25	32	45.8	19.4	18	126-8996
30	39.5	53.3	19.4	18	126-8997
50	63.5	76.2	19.4	18	126-8998

208290

Order Multiple=10						
No. of Ribbon Conductors	Max. Cable Width	Order Code	10+	50+	100+	500+
25	32	126-8996●	0.220	0.196	0.167	0.145
30	39.5	126-8997●	0.290	0.260	0.220	0.200
50	63.5	126-8998●	0.310	0.290	0.260	0.220

**Self-Adhesive Aluminium Ribbon Cable**



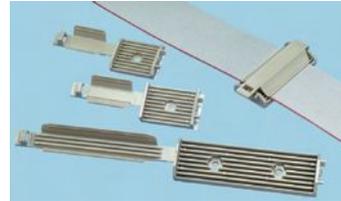
- Fast, easy installation
- Self-adhesive foam pad
- Wide range of sizes

Operating temperature -40°C to +70°C

208279

100 Per Pack		Code	Price Per Pack				
Conductors	Ribbon Width		1+	5+	10+	25+	40+
10	12.7	302-7855●	7.11	6.50	6.24	5.39	5.11
20	25.4	302-7867●	7.27	6.44	6.19	5.61	5.38
26	33.1	302-7879●	8.74	7.63	7.34	6.74	6.50
34	43.3	302-7880	8.86	7.89	7.60	6.85	6.50
40	50.8	302-7892	9.57	8.82	8.44	7.32	6.97
50	63.5	302-7909●	10.52	9.42	9.03	8.05	7.69

**Latching Flat Cable Mount**



- Four sizes each with a stack height of 4.3mm to accommodate different flat cable widths
- All sizes have rubber adhesive backing

Length (mm)	Width (mm)	Cable Width (mm)	Max. Static Load (g)	Order Code
73.7	25.4	26.7	227	101-4957
80.3	25.4	30.5	281	101-4959
128.5	25.4	56.4	454	101-4962
185.4	25.4	85.9	681	101-4964

419654/436532

100 Per Pack		Order Code	Price Per Pack	
Mftrs. List No.	1+		3+	
FCM1-A-C14	43.19	101-4957●	38.89	
FCM2-A-C14	41.10	101-4959●	37.00	
FCM1-S6-C14	29.97	101-4962●	26.96	
<b>50 Per Pack</b>				
FCM2-S6-C14	45.95	101-4964●	41.36	

**Ribbon Cable Clamps - Self-Adhesive**

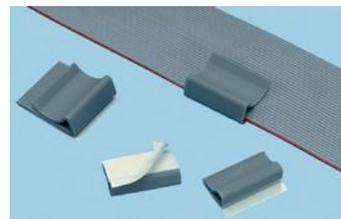


- Flat ribbon cable clamps in Grey PVC, self-adhesive backed

208093

100 Per Pack		Order Code	Price Per Pack				
Dimensions			1+	5+	10+	25+	50+
W	D H						
15	25 10	126-9034●	11.90	10.83	9.76	8.84	8.30
20	25 10	126-9035●	13.85	12.64	11.35	10.26	9.71
25	25 10	126-9036●	13.48	12.75	12.15	11.79	11.12
28	25 10	126-9037●	8.93	8.11	7.31	6.62	6.26

**Adhesive Ribbon Cable Clips**



- Used with any width flat cable for a maximum stack height of 4.3mm
- Rubber adhesive

Height (mm)	Length (mm)	Width (mm)	Max. Static Load (g)	Order Code
7.4	25.4	14.2	113	101-4944
9.7	25.4	27.7	227	101-4945

419613/436523

100 Per Pack		Order Code	Price Per Pack	
Mftrs. List No.	1+		3+	
FCC5-A-C8	15.79	101-4944●	14.21	
FCC-A-C8	16.63	101-4945●	14.97	

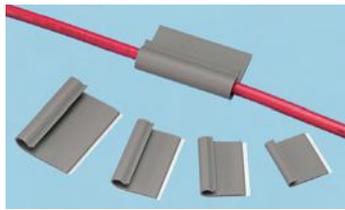
**Help us to help the environment**



This catalogue has been printed on paper certified from a sustainable source.

Please recycle after use.

**Adhesive Backed Cord Clip**



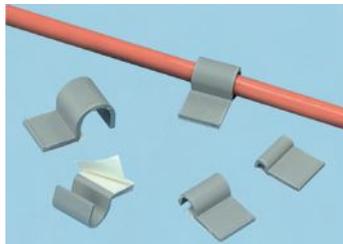
- Low profile clips retain cords, cables, or tubing
- Flexible design allows for easy cord insertion, yet holds bundle tightly
- Rubber adhesive

Height (mm)	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Max. Static Load (g)	Order Code
4.8	25.4	21.8	3	182	101-4881
6.6	31.8	22.1	4.8	227	101-4883
7.9	38.1	24.6	6.4	272	101-4884
10.2	44.5	30.1	7.9	408	101-4885
12.7	50.8	32.3	9.6	454	101-4886

419594/436491

100 Per Pack Mfrs. List No.	Order Code	1+	3+	Price Per Pack
AJC12-A-C	101-4881●	19.25	17.32	
AJC19-A-C	101-4883●	19.45	17.53	
AJC25-A-C	101-4884●	19.67	17.71	
AJC31-A-C	101-4885●	30.30	27.26	
AJC38-A-C	101-4886●	42.15	37.95	

**Adhesive Single Pad Clip**



- Holds cords, cables and tubing
- Single rubber adhesive pad for confined areas

Height (mm)	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Max. Static Load (g)	Order Code
5.8	19.6	16	3	169	101-4891
9.7	23.1	16	6.4	169	101-4892

419597/436510

100 Per Pack Mfrs. List No.	Order Code	1+	3+	Price Per Pack
A1C12-A-C8	101-4891●	10.92	9.83	
A1C25-A-C8	101-4892●	13.18	11.86	

**Adhesive Dual Pad Clip**



- Holds cords, cables and tubing
- Two rubber adhesive pads for added strength

Height (mm)	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Max. Static Load (g)	Order Code
5.8	33	16	3	64	101-4896
9.1	36.3	16	6.4	64	101-4897

419599/436511

100 Per Pack Mfrs. List No.	Order Code	1+	3+	Price Per Pack
A2C12-A-C8	101-4896●	15.58	14.02	
A2C25-A-C8	101-4897●	14.98	13.50	

**Self-Adhesive Steel**



- Range of BT Approved self-adhesive cable clips manufactured from polyester coated mild steel
- Clips can be shaped if the fixing surface is not flat prior to removing the adhesive protective backing.

Operating temperature -40°C to 70°C , install at above 15°C

Mfrs. List No.	SAC1(100 PACK) = 116-9059	SAC3(100 PACK) = 116-9061
	SAC2(100 PACK) = 116-9060	SAC4(100 PACK) = 116-9062

208087

100 Per Pack Cable Dia.	Base W	Dimensions H	Order Code	1+	Price Per Pack	5+	10+	50+
4	20	30	116-9059●	7.59	7.43	7.29	7.16	
8	25	35	116-9060●	8.28	8.13	7.88	7.72	
12	31	43	116-9061●	10.20	10.01	9.72	9.52	
16	38	51	116-9062●	14.46	14.14	13.86	13.57	

**Self-Adhesive Coated Aluminium**



General Purpose Hook



- White gloss polyester coating
- Self-adhesive foam pad
- Available in two sizes

Operating temperature -10°C to +65°C

208281

100 Per Pack Nominal Bundle Dia.	Base Size	Order Code	1+	5+	Price Per Pack	10+	25+	40+
8	16 x 16	302-7910●	12.65	12.16	11.71	10.87	10.34	
17	25 x 25	302-7922	14.07	13.54	12.79	12.17	11.65	

**Self-Adhesive Aluminium**



Buckle



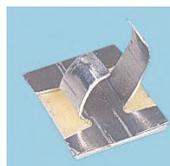
- Easily formed buckle
- Self-adhesive foam pad
- Available in two sizes

Operating temperature -40°C to +70°C

208280

250 Per Pack Nominal Bundle Dia.	Base	Order Code	1+	5+	Price Per Pack	10+	25+	40+
13	11.5 x 25.4	135-471	18.91	18.15	17.18	15.66	14.89	
19	16.3 x 25.4	135-483	23.63	21.47	20.80	17.85	16.83	

**Self-Adhesive Aluminium**



- Self-adhesive cable clips, manufactured in malleable aluminium
- To fix, remove adhesive backing and position. Insert cable harness and bend over tabs
- Available in 2 sizes

Operating temperature -40°C to +70°C

224087

250 Per Pack Bundle Dia.	Base Size	Order Code	1+	5+	Price Per Pack	10+	25+	40+
2 - 6	11 x 16	235-520●	9.45	8.96	8.44	7.69	7.50	
4 - 10	16 x 19	235-532●	12.41	11.64	10.85	10.35	10.11	

**Miniature Lacing Cord**



- Miniature Black PVC covered Rayon lacing cord
- Supplied on 25m reel for easy handling
- Suitable for cable-forming and other applications
- Ideal for field service

Nominal outside diameter 0.75 or 1mm  
Breaking strain 4.5kg

W=45, Dia.=60

208310

25m Reel Colour	Diameter	Order Code	1+	Price Per Reel	10+	25+	50+
Black	0.75mm	305-8669	2.42	2.28	2.11	1.98	
Black	1mm	143-5764	3.19	3.10	3.01	2.95	







Mftrs. List No.	Order Code	1+	5+	10+
SE12PSC-TR0	147-1663●	31.36	29.80	28.30
SE25PSC-TR0	147-1664●	45.06	42.80	40.65
SE38PSC-TR0	147-1665●	69.01	65.56	62.28
SE50PSC-CR0	147-1666●	46.90	44.55	42.32
SE75PSC-CR0	147-1667●	56.45	53.64	50.94
SE125PSC-LR0	147-1668●	41.67	39.58	37.60
SE150PSC-LR0	147-1669●	45.45	43.17	41.01

**Raybraid-101 – Shielding Braid**



- Tinned copper shielding braid for harness systems
- Supplied on easily removed plastic tube former
- Minimum 93% optical coverage
- Super flexible with high expansion ratio

**Note:** Tube former must be removed from braid before use.

Bundle Diameter Max.	Former Diameter Min.	Braid Size mm	Mftrs. List No.	Order Code
5.0	2.5	3mm ± 0.13mm	RAY-101-3.0	121-8642
7.5	3.5	4mm ± 0.25mm	RAY-101-4.0	121-8643
9.5	4.5	6mm ± 0.25mm	RAY-101-6.0	121-8644
14	7	7.5mm ± 0.25mm	RAY-101-7.5	121-8646
22	8	10mm ± 0.25mm	RAY-101-10.0	121-8647
24	11	12.5mm ± 0.25mm	RAY-101-12.5	121-8648
38	16	20mm ± 0.38mm	RAY-101-20.0	121-8649

10m Coils Order Code	1+	10+	25+	50+	100+
121-8642●	21.68	20.38	19.16	18.01	16.93
121-8643●	36.06	33.90	31.87	29.95	28.17
121-8644●	51.43	48.34	45.44	42.72	40.15
121-8646●	52.01	48.89	45.96	43.21	40.62
121-8647●	62.90	59.12	55.56	52.22	49.09
121-8648●	71.30	67.04	63.02	59.26	55.71
121-8649●	104.40	98.14	92.25	86.72	81.52

**Spiral Wrap**

**Spiral Wrapping**



- Mechanical and Electrical Protection
- Easy application
- Excellent binding rigidity
- Available in Natural or Black

10m Coil	External Dia.	Bundle dia. (mm)	Order Code	1+	5+	10+
Natural	10	20 - 60	134-4610●	18.36	17.63	16.92
	19	25-100	134-4612●	34.29	32.92	31.60
	19	25-100	134-4618●	34.29	32.92	31.60

**Spiral Wrap**



- Durable, reusable with retained spiral strength
- Fix ends of band with cable ties and spiral wire bundles in anti-clockwise direction to complete works
- Flexible construction encables bands to follow wire ways easily
- Expand spiral range almost without limit

- Available in Natural or Black
- Supplied in 10m lengths

10m Coil	Bore Dia. (mm)	Order Code	1+	5+	10+
Natural	3.2	141-6082●	1.82	1.50	1.17
	7.5	141-6083●	3.39	2.79	2.19
	12	141-6084●	4.64	3.84	3.02
	15	141-6085●	6.47	5.35	4.20
	20	141-6086●	7.56	6.24	4.91
Black	3.2	141-6087●	1.82	1.50	1.17
	7.5	141-6088●	3.39	2.79	2.19
	12	141-6089●	4.64	3.84	3.02
	15	141-6090●	6.47	5.35	4.20
	20	141-6092●	7.56	6.24	4.91

**Coloured Spiral Wrap**



- Allows breakouts of single/multiple wires and re-routing of replacement wires
- Harness multiple cables into a single manageable bundle
- Protection for wires, cables, hoses and tubing
- Colour code wire bundles
- Reusable
- Tool supplied in each package
- Polyethylene
- Supplied in 30m lengths

Mftrs. List No.	Colour	Order Code	1+	3+
T25F-C	Natural	117-9915●	21.93	21.49
T25F-C10	White	117-9917●	24.09	23.60
T25F-C2	Red	117-9919●	24.09	23.60
T25F-C3Y	Orange	117-9920●	24.09	23.60
T25F-C4Y	Yellow	117-9921●	24.09	23.60
T25F-C5	Green	117-9922●	24.09	23.60
T25F-C6	Blue	117-9923●	24.09	23.60
T25F-C8	Grey	117-9926●	24.09	23.60

**Spiroband**



Using only three sizes SPIROBAND will bind cable bunches in any diameter up to 100mm and give both mechanical and electrical protection. It is easily applied and the rigidity of the finished bundle can be varied according to the closeness of the spiral.

**Spiroband is manufactured in the following grades:**

- Grade 'U'** - Natural polythene for indoor wiring.
- Grade 'O'** - Black polythene for outdoor wiring, UV resistant.
- Grade 'R'** - White polythene, flame retardant.

Operating temperature -50°C to +70°C

Coil Length	External Dia.	Mftrs. List No.	Order Code	1+	5+	Price Per Coil			
						10+	25+	100+	
<b>Grade 'U'</b>	50m	6mm	0205	302-983●	15.47	14.72	14.14	13.85	13.58
	25m	12mm	0209	302-995●	18.26	16.48	16.14	15.82	15.52
<b>Grade 'O'</b>	50m	6mm	0204	303-010●	16.55	15.47	14.41	14.12	13.84
	25m	12mm	0208	303-021●	20.68	19.32	17.93	17.57	17.21
<b>Grade 'R'</b>	50m	6mm	0206	303-045●	21.87	20.36	19.01	18.63	18.26
	25m	12mm	0210	303-057●	34.52	32.23	29.45	27.45	26.53

**Spiralwrap**



**Series 161, transparent**



Due to the spiral structure, SP161 can be fitted onto cables, wires or tubes in situ. Cable and wires are easily wrapped and can be branched out at any point and in any direction.

Type	CallØ (mm)	Wiring HarnessØ (mm)	Wall Thickness (mm)	Spiral Width (mm)
161-10409	4	5-20	0,95	7,5

Type	Order Code	1+	5+	10+	25+	100+
161-10409	142-2974●	10.34	9.41	8.48	7.26	6.72

**Spiralwrap Series 161**



Due to the spiral structure, SP161 can be fitted onto cables, wires or tubes in situ. Cable and wires are easily wrapped and can be branched out at any point and in any direction.

Type	Call Ø (mm)	Wall Thickness (mm)	Spiral Width (mm)	Bundle Range (mm)
161-20409	4,0	0,95	9,0	5,0-20,0
161-20909	9,0	1,40	13,0	20,0-100,0











Dia. (mm) Nom.	Shrunk	Length (m)	Order Code	Price Per Length	
				1+	5+
7.9	2.7	10	101-7302●	16.79	15.85
9.5	3.2	10	101-7303●	20.61	17.89
12.7	4.2	10	101-7304●	22.40	20.92
15	5.2	10	101-7306●	28.83	25.23
19.1	6.3	10	101-7307●	31.24	28.74

Adhesive Lined – 3:1 Shrink Ratio



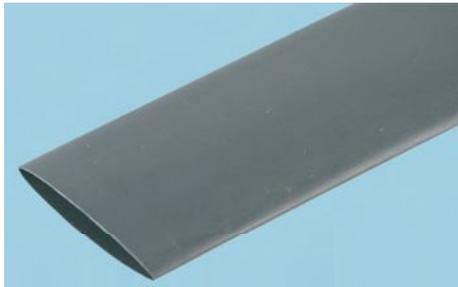
- Flexible adhesive lined Black polyolefin tubing
- Low-flow adhesive provides environmental sealing in back-end connector, component and wire break-out applications
- Moisture resistant
- High strength bonding
- 3:1 shrink ratio
- Minimum shrink temperature +80°C

● Operating temperature -30°C to +80°C

208296

1.2m Lengths			Price Per Length				
Dia. Nom.	Shrunk	Order Code	1+	5+	10+	25+	50+
3	1	121-0512●	2.87	2.74	2.62	2.56	2.39
6	2	121-0513●	3.91	3.75	3.61	3.53	3.27
9	3	121-0514●	4.57	4.41	4.22	4.12	3.86
12	4	121-0515●	4.87	4.70	4.52	4.41	4.12
18	6	121-0516●	5.85	5.65	5.42	5.30	4.96
24	8	121-0517●	11.63	11.21	10.76	10.50	9.83
39	13	121-0519●	15.43	14.79	14.08	13.62	12.64

Flame Retardant Heatshrink 3:1



Flexible, flame-retardant, heat-shrinkable polyolefin manufactured to AMS-DTL-23053/5 Class 1 Standard and approved to UL 224 135°C. This tubing has excellent wear-resistant performance. Its high shrink ratio accommodates difficult or irregular shapes. Available in 1.2m or 5m lengths.

Operating Temperature -55°C to +135°C Shrink Ratio 3:1  
Shrink Temperature 120°C

450137.450125

Unshrunk Dia.	Length	Order Code	Price Per Length			
			1+	5+	10+	25+
1.5mm	1.2m	125-9194●	0.41	0.36	0.33	0.28
3mm	1.2m	125-9195●	0.52	0.47	0.42	0.37
4.5mm	1.2m	125-9196●	0.68	0.63	0.57	0.52
6mm	1.2m	125-9197●	0.87	0.77	0.67	0.61
9mm	1.2m	125-9198●	1.08	0.97	0.87	0.80
12mm	1.2m	125-9199●	1.46	1.34	1.20	1.12
18mm	1.2m	125-9200●	3.58	3.22	3.01	2.86
24mm	1.2m	125-9201●	5.06	4.56	4.26	4.14
39mm	1.2m	125-9202●	9.16	8.84	8.42	7.95
1.5mm	5m	125-9203●	2.04	1.86	1.70	1.60
3mm	5m	125-9204●	2.45	2.23	2.06	1.94
4.5mm	5m	125-9205●	3.52	3.31	2.90	2.75
6mm	5m	125-9206●	4.48	4.15	3.75	3.58
9mm	5m	125-9207●	5.36	4.76	4.56	4.32
12mm	5m	125-9208●	7.47	7.06	6.80	6.46
18mm	5m	125-9211●	9.46	8.84	8.37	8.10
24mm	5m	125-9212●	15.75	14.98	14.21	13.62
39mm	5m	125-9213●	17.51	16.50	16.14	14.89

Adhesive Lined Heatshrink Sleeving 4 : 1 Ratio



This is a flexible, flame retarded heat-shrinkable polyolefin tubing, with a shrink ratio of 4 : 1 with a thick wall adhesive which melts and flows, to seal components contained within. Recommended for applications requiring water-proofing for light cable and wire harnesses and protection of connector components.

● Operating Temperature -55°C to 125°C

Inside Dia. Unshrunk (mm)	Inside Dia. Shrunk (mm)	Wall Thickness Shrunk (mm)	Order Code	Shrink Temperature 110°C			Order Code
				Inside Dia. Unshrunk (mm)	Inside Dia. Shrunk (mm)	Wall Thickness Shrunk (mm)	
4	1	1	125-6844	32	8	2.4	125-6851
6	1.5	1.1	125-6845	52	13	2.4	125-6852
8	2	1.2	125-6846	4	1	1	125-6854
12	3	1.4	125-6847	6	1.5	1.1	125-6855
16	4	1.7	125-6848	8	2	1.2	125-6856
20	5	2	125-6849	12	3	1.4	125-6857
24	6	2.1	125-6850				

448493.4317115

Length (m)	Order Code	Price Each	
		1+	5+
1.2	125-6844●	2.69	2.43
1.2	125-6845●	3.22	2.73
1.2	125-6846●	3.44	3.22
1.2	125-6847●	4.04	3.65
1.2	125-6848●	4.78	4.24
1.2	125-6849●	5.58	5.22
1.2	125-6850●	7.15	6.64
1.2	125-6851●	11.81	11.08
1.2	125-6852●	19.00	17.87
5	125-6854●	10.84	10.53
5	125-6855●	12.27	11.50
5	125-6856●	14.22	12.90
5	125-6857●	19.41	18.37

High Temperature PTFE - 4:1 Shrink Ratio



Dielectric strength 1400V/min. (35kV/mm) min.  
Operating temperature -67°C to +250°C

- Natural translucent PTFE 4:1 heat shrink tubing to MIL-1-23053/12, AMS3584 when heated to 327°C
- Non-flammable to ASTM D876
- Ideal for covering rollers, heaters, probes, high temperature terminals etc.
- Good electrical, high temperature, chemical and corrosion

208009

1.2 Lengths			Price Per Length						
Dia. Nom.	Shrunk	Order Code	1+	5+	10+	25+	50+	100+	
2	0.5	119-1030●	5.28	4.93	4.42	3.96	3.65	3.48	
3.2	0.8	119-1031●	5.39	5.01	4.50	4.03	3.71	3.54	
4.8	1.2	119-1033●	5.48	5.09	4.60	4.11	3.78	3.60	
6.4	1.3	119-1034●	5.64	5.25	4.69	4.23	3.91	3.70	
9.5	2.4	119-1035●	5.85	5.46	4.89	4.39	4.05	3.83	
12.7	3.2	119-1036●	8.58	8.01	7.19	6.45	5.94	5.65	
19	4.8	119-1037●	10.06	9.35	8.42	7.56	6.96	6.62	
25.4	6.3	119-1038●	13.34	12.43	11.17	10.01	9.22	8.77	

2

Clear Adhesive Lined - 4:1 Shrink Ratio



● Operating temperature -55°C to +75°C

- Excellent mechanical and abrasion resistance
- Good bonding to a wide range of substrates
- Good clarity
- 4:1 shrink ratio
- Minimum shrink temperature +100°C

208295

1.2m Lengths			Price Per Length				
Dia. Nom.	Shrunk	Order Code	1+	5+	10+	25+	50+
4	1	121-0521●	4.77	4.59	4.43	4.34	4.04
8	2	121-0522●	6.16	5.93	5.68	5.53	5.14
12	3	121-0523●	8.47	8.21	7.89	7.71	7.24
16	4	304-7313●	7.94	7.69	7.39	7.24	6.77

Heat Shrink Tube Kits



- Comprehensive heat shrink tubing kit, various lengths
  - Shrink ratio 2:1 except adhesive lined 3:1, when heated to between 136°C and 300°C
- Kit No. 1 - Black, Clear and Red, containing the following:



## Heat Shrink Tubing - continued

### Heat Shrink Tube Kits - continued

Nom.	Dia		Length mm	Colours	Quantity
	Shrunk	mm			
2.4	1.2	50	Black, Red	30 each colour	
3.2	1.6	50	Black, Red	30 each colour	
3.2	1.6	50	Clear	50	
4.8	2.4	50	Black, Red	20 each colour	
4.8	2.4	50	Clear	30	
4.8	2.4	100	Black, Red	20 each colour	
4.8	2.4	200	Black, Red	10 each colour	
6.4	3.2	50	Black, Red	10 each colour	
6.4	3.2	50	Clear	20	
6.4	3.2	100	Black, Red	10 each colour	
6.4	3.2	200	Black, Red	10 each colour	
9.5	4.7	100	Black	10	
9.5	4.7	100	Red	10	

224099

Order Code	Price Each
119-1039●	67.08

#### Kit No. 3 - Red, Blue, Yellow and Clear, containing the following:

Nom.	Dia		Length mm	Colours	Quantity
	Shrunk	mm			
2.4	1.2	50	Red, Blue, Yellow, Clear	12 each colour	
3.2	1.6	50	Red, Blue, Yellow, Clear	12 each colour	
4.8	2.4	50	Red, Clear	12 each colour	
4.8	2.4	50	Blue Yellow	12 each colour	
4.8	2.4	150	Red, Clear	12 each colour	
4.8	2.4	150	Blue, Yellow	12 each colour	
6.4	3.2	50	Red, Clear	12 each colour	
6.4	3.2	50	Yellow, Blue	12 each colour	
6.4	3.2	150	Red, Clear	8 each colour	
6.4	3.2	150	Yellow, Blue	8 each colour	
9.5	4.7	50	Yellow	12	
9.5	4.7	50	Blue	12	
9.5	4.7	50	Red	12	
9.5	4.7	50	Clear	12	
9.5	4.7	150	Red, Blue, Yellow, Clear	5 each colour	

231112

Order Code	Price Each
119-1040●	68.92

#### Kit No. 4 - Black, adhesive lined, containing the following:

Nom.	Dia		Length mm	Colours	Quantity
	Shrunk	mm			
3.2	1.4	100	Black	20	
4.8	1.6	100	Black	20	
6.4	2.1	100	Black	20	
9.5	3.2	150	Black	10	
12.7	4.2	150	Black	8	
19.0	6.3	150	Black	8	
25.4	8.4	150	Black	6	

231113

Order Code	Price Each
119-1041●	66.46

### Low Shrink Temperature Kit



- Kit contains a range of Black low shrink temperature tubing
- 2:1 shrink ratio
- Flexible
- Rapid recovery at low temperature, 65°C
- Excellent physical and electrical performance
- Operating temperature -40°C to +125°C

Nom.	Dia. (mm)		Length (mm)	Qty (pcs)
	Shrunk	mm		
1.6	0.8	35	30	
2.4	1.2	35	25	
3.2	1.6	35	20	
4.8	2.4	35	20	
6.4	3.2	70	16	
9.5	4.8	70	8	
12.7	6.4	100	8	

242859

Order Code	Price Each
121-0574●	17.05

### RNF-100 Mixed Colour Kit



- Kit contains a range of polyolefin RNF-100 tubing
- 2:1 Shrink ratio
- Flexible
- Flame retardant (except clear)
- Rapid recovery at low temperature
- Excellent physical, chemical and electrical performance
- Minimum shrink temperature +95°C
- Operating temperature -55°C to +135°C
- MIL-DTL-23053/5 Class 1&2, VG95353 Part 5B and DEF STAN 59-97 type 2B
- UL (E35586) recognised, CSA (LR31929)

Nom.	Dia. (mm)		Length (mm)	Colour (s)	Qty (pcs)
	Shrunk	mm			
2.4	1.2	50	Black and White	30+30	
3.2	1.6	50	Red and Blue	25+25	
3.2	1.6	50	Yellow and Blue	25+25	
4.8	2.4	100	Yellow and Blue	20+20	
4.8	2.4	50	Clear	40	
4.8	2.4	50	Yellow	30	
4.8	2.4	200	Yellow and Blue	20+20	
6.4	3.2	100	White and Yellow	10+10	
6.4	3.2	50	Red and Yellow	15+15	
6.4	3.2	50	Black and Yellow	15+15	
6.4	3.2	200	Red and Yellow	10+10	
6.4	3.2	200	Blue and Black	10+10	
9.5	4.8	100	Green/Yellow	10	
9.5	4.8	100	Black	10	

242860

Order Code	Price Each			
	1+	2+	10+	50+
121-0585●	46.99	45.81	44.15	42.48

### RNF-100 Black Kit



- Kit contains a range of Black RNF-100 tubing
- 2:1 shrink ratio
- Flexible
- Flame retardant
- Rapid recovery at low temperature
- Excellent physical, chemical and electrical performance
- Operating temperature -55°C to +135°C

Nom.	Dia. (mm)		Length (mm)	Qty (pcs)
	Shrunk	mm		
1.6	0.8	50	50	
2.4	1.2	50	50	
3.2	1.6	50	45	
4.8	2.4	50	25	
6.4	3.2	70	25	
9.5	4.8	70	15	
12.7	6.4	100	15	
19.0	9.5	200	10	

242861

Order Code	Price Each			
	1+	2+	10+	50+
121-0584●	26.41	23.89	22.57	20.30

### FIT® KIT-1 Heat Shrink Tubing



For use in research and development labs, engineering development and maintenance department.

FIT® KIT-1 Contents - General Purpose Indoor Applications				Qty (pcs)
Mfrs. List No.	Material	Sizes (assorted colours)		
FIT-105	Vinyl	9 sizes 1.19mm - 19.05mm		18
FIT-221	Polyolefin	9 sizes 1.19mm - 19.05mm		19
FIT-295	Semi-Rigid Polyolefin	8 sizes 1.19mm - 12.7mm		12
FIT-300	Surface Irradiated Polyolefin	5 sizes 3.18mm - 12.7mm		10
FIT-350	Kynar	7 sizes 1.19mm - 9.53mm		14
FIT CRIMPS 1, 2, 3		22 AWG - 10 AWG		3
CAP 22, 23, 24				6

491678

Order Code	Price Each		
	1+	5+	10+
151-5126●	69.11	67.05	63.68

**FIT® KIT-2 Heat Shrink Tubing**



For use in research and development labs, engineering development and maintenance department.

Mfrs. List No.	Material	Sizes (assorted colours)	Qty (pcs)	Lengths
FIT-105	Vinyl	9 sizes 1.19mm - 19.05mm	18	-
FIT-221	Polyolefin	9 sizes 1.19mm - 19.05mm	19	-
FIT-295	Semi-Rigid Polyolefin	8 sizes 1.19mm - 12.7mm	12	-
FIT-300	Surface Irradiated Polyolefin	5 sizes 3.18mm - 12.7mm	10	-
FIT-350	Kynar	7 sizes 1.19mm - 9.53mm	14	-
FIT CRIMPS 1, 2, 3		22 AWG - 10 AWG	3	-
CAP 22, 23, 24			6	-
FIT-321	Adhesive-Lined Polyolefin	2 sizes 6.35mm - 12.7mm	16	24
FIT-400	FEP Teflon	6 sizes 12 - 24 AWG	22	-
FIT-500	FEP Teflon	5 sizes 18 - 26 AWG	17	-
FIT-600	Elastomer	5 sizes 6.35mm - 25.4mm	8	-
FIT-700	Mastic Lined Cable Sleeves	2 sizes 21, 22	2	-
FIT-750	Adhesive Lined Cable Sleeves	1 size 9.53mm	-	10

491696

Order Code	1+	5+	10+
151-5127●	84.61	82.08	77.97

**FIT® KIT-7 Heat Shrink Tubing**



For use in research and development labs, engineering development and maintenance department.

Mfrs. List No.	Material	Sizes (assorted colours)	Qty (pcs)
FIT-105	Vinyl	7 sizes 4.23mm - 12.7mm	14
FIT-400	FEP Teflon	7 sizes 24 - 12	14
FIT-221	2:1 Polyolefin	7 sizes 1.59mm - 12.7mm	28
FIT-750	Adhesive Lined Polyolefin	5 sizes 6.35mm - 25.4mm	10
FIT-260	Ground Lead Polyolefin	3 sizes 3.18mm - 12.7mm	6
FIT-300	Surface Irradiated Polyolefin	4 sizes 9.53mm - 12.7mm	8
FIT-321	3:1 Polyolefin	3 sizes 3.18mm - 12.7mm	6
FIT-350	Kynar	7 sizes 1.19mm - 9.53mm	14
FIT CRIMPS	Shrink Nylon Crimps	3 sizes 1-3	12

491778

Order Code	1+	5+	10+
151-5128●	96.74	93.85	89.15

**Heatshrink Kits 2:1 And 3:1**



- Approved to MIL-1-23053/5 and UL224/CSA (E307734)
- Contains 180 heatshrinks
- Sizes range from 3.2mm diameter to 12.7mm diameter

Kit Contents	Unshrunk	Colour	Length (mm)	Qty
3.20mm	Black	50	15	
		50	15	
		50	15	
		50	15	
		50	15	
4.80mm	Black	50	6	
		50	6	
		50	6	
		50	6	
		50	6	
9.50mm	Black	50	10	
		50	10	
		50	10	
		50	10	
		50	10	

**Kit Contents**

Unshrunk	Colour	Length (mm)	Qty
12.70mm	Black	70	5
	Blue	70	5
	Yellow	70	5
	Red	70	5
	White	70	5

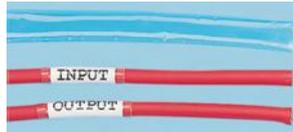
**Technical Data**

Dielectric strength	15kV/mm
Temperature range	-55°C to 110°C
Shrink Temperature	110°C

493299

Kit Ratio	Order Code	1+	3+
2:1 Kit	151-8577●	11.27	10.82
3:1 Kit	151-8578●	20.88	20.29

**RT-375 Super Clear- 2:1 Shrink Ratio**



- Flexible modified Clear fluoropolymer tubing
- Extreme clarity
- Excellent physical and electrical properties
- 2:1 shrink ratio

- Flame retardant to VW-1
- UL, CSA and MIL-DTL-23053/18
- Minimum shrink temperature +125°C
- Operating temperature -55°C to 150°C

208300

**1.2 Lengths**

Di.	Mfrs.	Order Code	1+	5+	10+	25+	50+
1.2	0.6 RT-375-3/64-X-4FT	121-0443●	1.67	1.57	1.52	1.46	1.42
1.6	0.8 RT-375-1/16-X-4FT	121-0444●	1.78	1.69	1.64	1.58	1.49
3.2	1.6 RT-375-1/8-X-4FT	121-0447●	1.77	1.69	1.62	1.56	1.51
4.8	2.4 RT-375-3/16-X-4FT	121-0448●	1.90	1.73	1.61	1.54	1.41
6.4	3.2 RT-375-1/4-X-4FT	121-0449●	2.20	2.07	2.01	1.95	1.90
9.5	4.8 RT-375-3/8-X-4FT	121-0450●	2.84	2.67	2.59	2.50	2.43
19.1	9.5 RT-375-3/4-X-4FT	121-0453●	4.05	3.82	3.70	3.57	3.45
25.4	12.7 RT-375-1-X-4FT	121-0454●	5.84	5.48	5.31	5.15	4.98

**RP-4800 High Shrink – 4:1 Shrink Ratio**



- Flexible Black polyolefin tubing
- High expansion ratio
- Good mechanical strength
- 4:1 shrink ratio, 4 sizes cover whole range
- Flame retardant
- MIL-DTL-23053/5 Class 1 and VG95343 Part 5A
- Minimum shrink temperature +95°C
- Operating temperature -55°C to +135°C
- UL (E35586) recognised

208298

**1.2 Lengths**

Di.	Mfrs.	Order Code	1+	5+	10+	25+	50+
25.4	7 RP-4800-NR1-0	121-0455●	14.65	13.94	13.48	13.04	12.62
50.8	14 RP-4800-NR2-0	121-0456●	18.04	17.14	16.59	16.06	15.53
76.2	20.6 RP-4800-NR3-0	121-0457●	26.85	25.25	24.44	23.66	22.90
101.6	26.7 RP-4800-NR4-0	121-0458●	33.32	31.33	30.32	29.34	28.40

**ATUM Adhesive Lined**



- Semi-flexible adhesive lined Black polyolefin tubing
- Adhesive lining provides high strength bonding to wide range of substrates
- Good mechanical and solvent resistance
- 3:1 shrink ratio
- MIL-DTL-23053/4 Class 3 approved
- Minimum shrink temperature +80°C
- Operating temperature -55°C to +110°C

208299

**1.2m Lengths**

Di.	Mfrs.	Order Code	1+	5+	10+	25+	50+
3	1 ATUM-3/1-0-4FT	121-0459●	4.61	4.28	4.15	4.02	3.90
6	2 ATUM-6/2-0-4FT	121-0460●	6.14	5.73	5.52	5.34	5.16
9	3 ATUM-9/3-0-4FT	121-0461●	7.57	7.05	6.82	6.59	6.36
12	4 ATUM-12/4-0-4FT	121-0462●	8.19	7.62	7.37	7.13	6.89
19	6 ATUM-19/6-0-4FT	121-0463●	10.72	9.96	9.64	9.35	9.06
24	8 ATUM-24/8-0-4FT	121-0465●	15.77	14.68	14.21	13.75	13.31
40	13 ATUM-40/13-0-4FT	121-0466●	31.53	29.32	28.38	27.47	26.58

Over 480,000 products online





### Shrinkhoop Cable Clamp Heat-Shrink Grommet



- Ultra High ratio heat-shrinkable relief grommet that can be placed over the cable assembly after the connector pin
- Reduced assembly time
- Superior strain relief
- Rework made easier
- Re-expandable I.D allows wire addition to a cable bundle
- No build-up taping or feeding wire through a grommet
- Operating temperature: -55°C to 135°C

Inner Diameter Expanded, Minimum	Inner Diameter Recovered, Maximum	Outer Diameter	Supplier Part Number
25mm (1.00")	2.1mm (0.08")	6.0mm (0.25")	URHR-1-0
31mm (1.23")	2.6mm (0.10")	10mm (0.375")	URHR-2-0
37mm (1.44")	3.6mm (0.14")	13mm (0.50")	URHR-3-0
47mm (1.85")	4.7mm (0.18")	14mm (0.562")	URHR-4-0
51mm (2.00")	5.1mm (0.20")	21mm (0.812")	URHR-5-0

338613

Supplier No.	Order Code	Price Each	
		1+	5+
URHR-1-0	496-6831●	3.62	3.45
URHR-2-0	496-6843●	1.30	1.24
URHR-3-0	496-6855●	1.43	1.35
URHR-4-0	496-6867●	1.61	1.55
URHR-5-0	496-6879●	7.16	6.74

### CRN Flame Retardant - 2:1 Shrink Ratio



- Semi-rigid, flame retardant Black polyolefin tubing
- Ideal for wire strain relief applications such as soldered or crimp connections, wire splices and terminations
- Provides high abrasion resistance and mechanical protection for delicate components
- Outstanding physical and electrical performance
- Excellent chemical and solvent resistance properties
- 2:1 shrink ratio
- MIL-DTL-23053/6, Class 1 and Def. Stan. 59-97 Issue 3 Type 2C approved
- Minimum shrink temperature +110°C
- Operating temperature -55°C to +135°C
- UL (E35586), CSA (LR31929) recognised

227244

1.2m lengths				Order Code	Price Per Length				
Dia. Nom.	Shrunk	Mftrs. List No.			1+	5+	10+	25+	50+
1.2	0.6	CRN-3/64-0-4FT	121-0532●	2.01	1.79	1.63	1.42	1.18	
1.6	0.8	CRN-1/16-0-4FT	121-0533●	1.90	1.70	1.54	1.34	1.11	
2.4	1.2	CRN-3/32-0-4FT	121-0534●	2.10	1.88	1.73	1.47	1.24	
3.2	1.6	CRN-1/8-0-4FT	121-0535●	2.45	2.15	2.01	1.74	1.43	
4.8	2.4	CRN-3/16-0-4FT	121-0536●	2.62	2.35	2.14	1.87	1.55	
6.4	3.2	CRN-1/4-0-4FT	121-0537●	3.46	3.08	2.80	2.44	2.05	

### BSTS Thick Wall Tubing



- Black, thick wall, rugged polymer tubing
- Moisture, fungus and weather resistant
- Excellent electrical properties
- For use where insulation, abrasion resistance and strain relief are required
- Up to 3:1 shrink ratio
- ABS, DNV and Lloyds approved
- Minimum shrink temperature +90°C
- Minimum full recovery temperature +121°C
- Operating temperature -55°C to +90°C

Mftrs. List Nos:	BSTS-04X4	121-0551	BSTS-17X4	121-0553	BSTS-45X4	121-0556
	BSTS-07X4	121-0552				

227245

1.2m Lengths			Order Code	Price Per Length				
Dia. Nom.	Shrunk	Nom. Wall Thick		1+	5+	10+	25+	50+
10.2	3.9	1.5	121-0551●	5.90	5.49	5.24	4.58	3.73
19.1	5.6	2.4	121-0552●	6.46	6.01	5.74	5.02	4.06
43.2	12.7	3	121-0553●	11.29	10.51	10.01	8.80	7.08
114.3	44.5	3.9	121-0556●	32.33	30.05	29.06	25.48	20.66

### HSR-FR Semi-Rigid High Shrink Ratio



- Black, semi-rigid tubing
- High expansion ratio designed to accommodate large size differences
- Tough and durable
- Offers excellent insulation and abrasion protection
- Flame retardant
- 5.6:1 shrink ratio
- ABS, DNV and Lloyds approved
- Minimum shrink temperature +120°C
- Operating temperature -55°C to +90°C

227246

250mm Lengths				Price Each				
Dia. Nom.	Shrunk	Mftrs. List No.	Order Code	1+	5+	10+	25+	50+
15.3	3.9	HSR-060FR-10	121-0538●	15.57	14.65	14.18	13.18	12.00
31.8	6.1	HSR-125FR-10	121-0539●	17.42	16.37	15.85	14.75	13.43
44.5	8	HSR-175FR-10	121-0540●	20.86	19.62	18.99	17.67	16.09

### XFFR Medium Wall Tubing



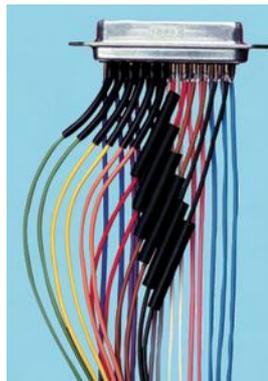
XFFR halogen-free can be used for re-jacketing and repairing halogen free cables in any enclosed area where a flame-retardant, halogen-free environment is required. These environments include: tunnels, buildings, rail and mass transit, marine and other enclosed situations.

- Operating temp -55°C to +105°C
- Halogen-free, flame retarded
- Shrink ratio as high as 3:1
- Resistant to moisture, fungus and weathering
- Lloyds Register of Shipping, DNV (Det Norske Veritas), (ABS) American Bureau of Shipping

493925

1.2m Length Mftrs. List No.	Diameter		Order Code	Price Each		
	Nominal (mm)	Shrunk (mm)		1+	5+	10+
XFFR-03X4	7.62	2.54	151-9789●	12.45	11.84	11.28
XFFR-04X4	10.16	3.81	151-9790●	13.68	13.00	12.38
XFFR-07X4	19.05	5.59	151-9791●	16.66	15.81	15.12
XFFR-11X4	27.94	9.52	151-9792●	21.58	20.49	19.53
XFFR-15X4	38.10	12.70	151-9793●	25.42	24.15	23.02

### RW-175 High Temperature Tubing



- High Temperature, chemical-resistant polyvinylidene fluoride tubing
- Ideally suited for applications requiring high-temperature performance, outstanding abrasion resistance and cut-through resistance, or superior chemical and solvent properties
- Provides electrical insulation and strain relief of multi-pin connectors and solder joints
- Ideal for applications that require dense packing of components or visual inspection of covered components
- 2:1 shrink ratio
- Tough, semi rigid, very thin wall insulation
- High flame-resistance, meeting the requirements of AMS-DTL 23053, Test C, with UL (VW-1) and CSA (OFT) rating

- High Temperature performance that meets or exceeds military and industrial standards
- Protection from the majority of industrial solvents, fuels and chemicals
- Recommended maximum temperature for use as a primary insulator: 135°C
- Minimum Shrink temperature: 155°C
- Minimum full recovery temperature: 175°C
- Approved to VDE 0341 Pt 905, CSA LR3 1929 OFT 600V 150°C, AMS-DTL-23053/8, Def-Stan 59-97 Type 3
- UL Listed E35586 VW-1 600V 150°C
- Available in 1.2m lengths
- Colour - Black

Size	Minimum Expanded	Maximum Recovered After Heating	Recovered Wall Thickness After Heating
3/64"	1.2mm (0.046")	0.6mm (0.023")	0.25mm±0.05 (0.010±0.002)

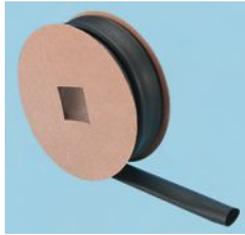
338601

Mftrs. List No.	Order Code	1+	5+
RW-175-3/64-0-STK	496-6594●	2.18	2.04



## Heat Shrink Tubing - continued

### DR-25 Diesel Resistant - 2:1 Shrink Ratio



- Flexible, Black elastomer tubing
- Resistant to aviation and diesel fuels, hydraulic fluids and lubricating oils
- Ideal for use where a rugged, fluid resistant tube is necessary
- Long-term fluid and heat resistance
- Protects against abrasion and mechanical damage
- 2:1 shrink ratio
- MIL-DTL-23053/16 (except 1/8 and 3/16), VG 95343 Part 5 Type D, BS 3G-198 Part 3 10A and Def. Stan. 59-97 Issue 3 Type 6B approved
- Minimum full recovery temperature +175°C
- Operating temperature -75°C to +150°C

Mftrs. List No.	Nom.	Dia. Shrinkd	Spool Length	Order Code
DR-25-1/8-0	3.2	1.6	10m	341-5478
DR-25-3/16-0	4.8	2.4	10m	341-5480
DR-25-1/4-0	6.4	3.2	10m	341-5491
DR-25-3/8-0	9.5	4.8	10m	341-5508
DR-25-1/2-0	12.7	6.4	7m	341-5510
DR-25-3/4-0	19.1	9.5	5m	341-5521
DR-25-1-0	25.4	12.7	4m	341-5533

227247

Mftrs. List No.	Order Code	Price Per Spool				
		1+	5+	10+	25+	50+
DR-25-1/8-0	341-5478	48.55	45.15	42.00	39.05	32.66
DR-25-3/16-0	341-5480	49.52	46.07	42.86	39.87	34.75
DR-25-1/4-0	341-5491	58.70	54.59	50.78	47.23	40.81
DR-25-3/8-0	341-5508	57.32	53.89	50.67	47.63	44.78
DR-25-1/2-0	341-5510	53.49	49.74	46.27	43.04	38.66
DR-25-3/4-0	341-5521	54.58	50.77	47.22	43.93	37.12
DR-25-1-0	341-5533	62.05	57.70	53.67	49.93	44.63

### T208M Printer



- The T208M printer can be used with both the Tyco Readyprint heat shrink sleeves and Tyco SB self laminating labels
  - High resolution thermal transfer printer
  - Portable/desktop use
  - Small and lightweight
  - Operates using Wintotal software
  - Supplied with both UK and European mains leads
- Ribbons**
- Order code 417-7691, for use with Readyprint markers
  - Order code 417-7708, for use with SB self laminating labels

Print head width	104mm (4.09")	Memory	156KB SRAM and 512KB flash
Print head resolution	8dpmm (203dpi)	Comms interface	Parallel (centronics) and serial (RS232)
Print speed (max)	51mm per second (2" per second)	Printer dimensions (mm)	200 x 247 x 171
Media sensor	Transmissive - fixed	Printer Weight (kg)	1.81

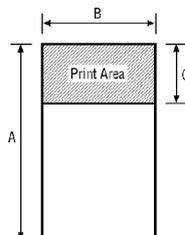
243148

	Mftrs. List No.	Order Code	Price Each	
			1+	5+
T208M Printer (Only)	T208M-PRINTER	121-0586	565.87	554.57
Ribbon for Readyprint markers	TMS-101-RIBBON-4RPSCE	121-0587	33.74	32.39
Ribbon for SB Labels	1330-3300-101TT	417-7708	21.41	18.43
Windows software	TMS-WINTOTAL-SWARE	352-5200	275.77	--

### SB Self Laminating Labels



Computer Printable



- Thermal transfer printable self laminating labels
- Prints using T208M printer
- Translucent vinyl film with a permanent acrylic adhesive
- Supplied with a white printable area that is over-laminated with a translucent tail
- Over-lamination protects printed area from oils, solvents, water and abrasion
- Ideal for wire and cable identification, including flat ribbon cables
- For guaranteed print performance use with 1330-3300-101TT ribbon, order code 417-7708
- Operating temperature -54°C to +82°C

Mftrs. List No.	Label Height (A)	Label Width (B)	Printable Height (C)	Labels per Roll	Order Code
SB100225WE2.5X-101TT	57.2	25.4	19.1	2500	417-7733
SB200375WE1X-101TT	95.3	50.8	25.4	1000	417-7745

243150

	Order Code	Price Per Roll			
		1+	5+	10+	25+
SB100225WE2.5X-101TT	417-7733	120.69	113.70	108.62	106.03
SB200375WE1X-101TT	417-7745	178.30	168.01	160.48	156.66
			Price Each		5+
Ribbon for T208M/SB Labels	417-7708		21.41		18.43

### RPS Identification Sleeves



**Technical Specification**  
 Operating temp. -30°C to +105°C  
 Min. recovery temp. +85°C  
 Printable length 50mm nom.  
 Flammability UL224/VW1  
 Standards CSA Certified, UL224 Recognized.

- RPS markers are commercial grade heat shrinkable marking sleeves for wire and cable identification.
- Excellent print performance in conjunction with the 4RPSCE thermal transfer ribbons.
- Configured in ladder format for ease of kitting.
- Outstanding resistance to abrasion, chemicals and solvents.
- Flame retarded with a 3:1 shrink ratio.

504824

250 Per Box Diameter	Nom.	Shrinkd	Order Codes		Price Per Box			
			White	Yellow	1+	5+	10+	25+
3.2	1.1		589-883	589-949	45.64	42.92	40.37	37.97
4.8	1.6		589-895	589-950	45.22	42.53	39.99	37.61
6.4	2.1		589-901	589-962	48.46	45.54	42.81	40.24
9.5	3.2		589-913	589-974	57.07	53.66	50.47	47.45
12.7	4.2		589-925	589-986	62.45	58.71	55.20	51.89
19	6.4		589-937	589-998	102.31	96.20	90.46	85.06
25.4	8.5		304-7325	304-7349	115.22	108.32	101.83	95.74

### HX-SCE Identification Sleeves



Low Fire Hazard



Mftrs. List No.	Recommended usage range	Sleeve Length
HX-SCE-2.4-50-4	1.27mm - 1.90mm	50.0
HX-SCE-3.2-50-4	1.75mm - 2.66mm	50.0
HX-SCE-4.8-50-4	2.54mm - 4.06mm	50.0
HX-SCE-6.4-50-4	3.81mm - 5.46mm	50.0
HX-SCE-9.5-50-4	5.59mm - 8.12mm	50.0

- HX-SCE markers are LFH (low Fire Hazard) heat shrinkable marking sleeves for wire and cable identification
- Outstanding low fire hazard properties - low smoke, low toxicity, low flammability
- Ideal for applications in enclosed spaces such as mass transit, marine, and industrial installations
- Excellent print performance in conjunction with the 1966 thermal transfer ribbons
- Configured in ladder format for ease of kitting
- Flame retarded with a 2:1 shrink ratio

**Technical Specification**  
 Operating temperature -30°C to +105°C  
 Minimum recovery temperature +120°C  
 Standards SAE AS81531 4.6.2, MIL-STD-202F Method 215J, BS 6853 [1999] - Vehicle Category 1a, LUL toxic fume (LUL E1042:A6 [2002]) - No halogen, O, N or S sources

504801

250 Per Pack Mftrs. List No.	Order Code	Price Per Pack			
		1+	5+	10+	25+
HX-SCE-2.4-50-4	129-1175	95.87	89.59	86.90	84.30
HX-SCE-3.2-50-4	129-1176	98.47	92.03	89.26	86.59
HX-SCE-4.8-50-4	129-1177	108.40	101.32	98.27	95.32
HX-SCE-6.4-50-4	129-1179	124.11	115.99	112.51	109.14
HX-SCE-9.5-50-4	129-1181	142.63	133.30	129.29	125.41

### Heat Shrinkable UV Protection Sleeves



TMS-CCUV



- TMS-CCUV clear heat shrinkable sleeves are designed for the over protection of 'System Six' identification products
- Commonly used in outdoor applications, to prevent the fading and discoloration of markers exposed to UV light
- Exceptional clarity and stability
- These overlamine sleeves protect against the effects of ultra-violet, with tough resistance to abrasion and industrial fluids
- Low Profile

**Technical Specification**

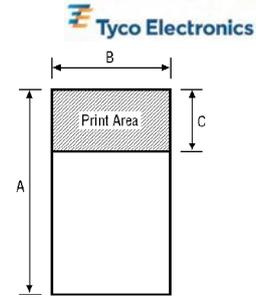
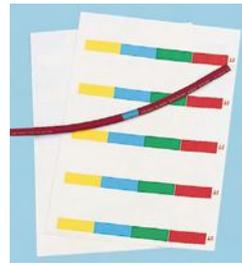
Operating temperature -55°C to +150°C  
 Minimum recovery temperature +150°C  
 Standards UL VW-1 rated, SAE-AMS-DTL-23053/18, Class 2

Mfrs. List No.	Inside diameter	Recovered diameter	Sleeve Length
TMS-CCUV-SLEEVE-1-X-65MM	3.2mm	1.6mm	65.0mm
TMS-CCUV-SLEEVE-2-X-65MM	4.8mm	2.4mm	65.0mm
TMS-CCUV-SLEEVE-3-X-65MM	6.4mm	3.2mm	65.0mm
TMS-CCUV-SLEEVE-4-X-65MM	9.5mm	4.8mm	65.0mm
TMS-CCUV-SLEEVE-5-X-65MM	12.7mm	6.4mm	65.0mm
TMS-CCUV-SLEEVE-6-X-65MM	19mm	9.5mm	65.0mm
TMS-CCUV-SLEEVE-7-X-65MM	25.4mm	12.7mm	65.0mm

504778

250 Per Pack		Price Per Pack			
Mfrs. List No.	Order Code	1+	5+	10+	25+
TMS-CCUV-SLEEVE-1-X-65MM	129-1183	22.47	21.12	20.49	19.87
TMS-CCUV-SLEEVE-2-X-65MM	129-1184	27.52	25.78	25.00	24.25
TMS-CCUV-SLEEVE-3-X-65MM	129-1185	32.52	30.17	29.26	28.38
TMS-CCUV-SLEEVE-4-X-65MM	129-1186	39.40	36.47	35.38	34.31
TMS-CCUV-SLEEVE-5-X-65MM	129-1187	56.05	53.02	51.42	49.89
TMS-CCUV-SLEEVE-6-X-65MM	129-1188	82.02	76.01	73.72	71.52
TMS-CCUV-SLEEVE-7-X-65MM	129-1189	98.97	95.07	92.21	89.45

**Self Laminating**



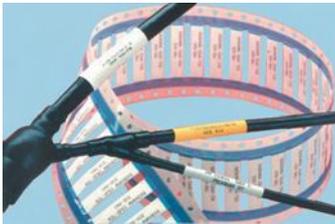
- Self adhesive white/clear and colour/clear polyester labels on A4 sheets
- Sheet of colour markers includes 10 red, 10 green, 10 blue and 10 yellow
- Colour markers offer the ideal solution to network planning as paired ends in cable looms become instantly visible
- Printed on using laser printer or pen
- White or coloured section adhered to cable
- Clear section wraps around to protect information
- -40°C to +125°C serviceable temperature range
- Resistant to dirt, oil, water, alcohol, petroleum and petroleum based oils
- Suitable for **BS EN ISO 60950** requirements

Print Area		Mfrs.	Print Area		Mfrs.		
A	B x C	List No.	Order Code	A	B x C	List No.	Order Code
38	12 mm x 13 mm	11015	890-728	75	25 mm x 29 mm	11016	890-753
40	20 mm x 10 mm	11012	890-730	90	25 mm x 23 mm	11025	890-765
40	52 mm x 13 mm	11013	890-741	40	12 mm x 10 mm	11012C	303-4227

208185

10 Sheets Per Pack		Price per Pack			
Labels Per Sheet	Order Code	1+	10+	20+	40+
<b>White</b>					
60	890-728	15.14	14.39	13.63	13.34
42	890-730	15.14	14.39	13.63	13.34
18	890-741	15.14	14.38	13.63	13.34
18	890-753	15.14	14.38	13.63	13.34
24	890-765	15.14	14.39	13.63	13.34
<b>Colours</b>					
40	303-4227	20.57	19.00	17.64	17.29

**TMS-SCE**



These marker sleeves are designed to meet the wire and cable marking needs of manufacturers with high performance requirements. They are made from flame retarded, radiation-crosslinked heat-shrinkable polyolefin.

- TMS-SCE markers are Military grade heat shrinkable marking sleeves for wire and cable identification
- Excellent print performance in conjunction with the 4RPSC thermal transfer ribbons
- Configured in ladder format for ease of kitting
- Outstanding resistance to abrasion, chemicals, solvents and military fuels and oils
- Flame retarded with a 3:1 shrink ratio

**Technical Specification**

Operating temperature -55°C to +135°C  
 Minimum recovery temperature +85°C  
 Standards SAE-AMS-DTL-23053/5 classes 1 and 3, SAE AS81531 4.6.2, MIL-STD-202F Method 215J, CSA Certified, UL224 Recognized.

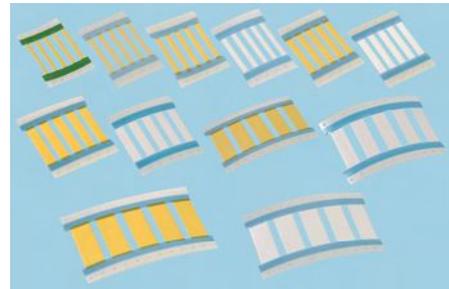
Order Code	Recommended usage range	Diameter		Colour
		unshrunk	shrunk	
TMS-SCE-3/32-2.0-4	0.81mm - 1.9mm	2.36mm	0.79mm	Yellow
TMS-SCE-3/32-2.0-9	0.81mm - 1.9mm	2.36mm	0.79mm	White
TMS-SCE-1/8-2.0-4	1.11mm - 2.66mm	3.18mm	1.07mm	Yellow
TMS-SCE-1/8-2.0-9	1.11mm - 2.66mm	3.18mm	1.07mm	White
TMS-SCE-3/16-2.0-4	1.75mm - 4.06mm	4.75mm	1.57mm	Yellow
TMS-SCE-3/16-2.0-9	1.75mm - 4.06mm	4.75mm	1.57mm	White
TMS-SCE-1/4-2.0-4	2.31mm - 5.46mm	6.35mm	2.11mm	Yellow
TMS-SCE-1/4-2.0-9	2.31mm - 5.46mm	6.35mm	2.11mm	White
TMS-SCE-3/8-2.0-4	3.47mm - 8.12mm	9.53mm	3.18mm	Yellow
TMS-SCE-3/8-2.0-9	3.47mm - 8.12mm	9.53mm	3.18mm	White
TMS-SCE-1/2-2.0-4	4.64mm - 10.79mm	12.7mm	4.22mm	Yellow
TMS-SCE-1/2-2.0-9	4.64mm - 10.79mm	12.7mm	4.22mm	White

504797

250 Per Pack		Price Per Pack	
Mfrs. List No.	Order Code	1+	5+
TMS-SCE-3/32-2.0-4	114-6693	70.00	65.81
TMS-SCE-3/32-2.0-9	114-6694	70.00	65.81
TMS-SCE-1/8-2.0-4	114-6696	74.04	69.61
TMS-SCE-1/8-2.0-9	114-6697	74.31	69.85
TMS-SCE-3/16-2.0-4	114-6698	76.46	71.86
TMS-SCE-3/16-2.0-9	114-6699	76.46	71.86
TMS-SCE-1/4-2.0-4	114-6700	81.87	76.95
TMS-SCE-1/4-2.0-9	114-6702	84.57	79.49
TMS-SCE-3/8-2.0-4	114-6703	77.24	72.61
TMS-SCE-3/8-2.0-9	114-6704	88.20	82.91
TMS-SCE-1/2-2.0-4	114-6705	107.23	102.41
TMS-SCE-1/2-2.0-9	114-6706	114.17	107.34

**Heat Shrinkable**

**Wire Identification Sleeves**



These marker sleeves are designed to meet the wire and cable marking needs of manufacturers with high performance requirements. They are made from flame retarded, radiation-crosslinked heat-shrinkable polyolefin. They meet the performance requirements of SAE-AMS-DTL-23053/5 classes 1 and 3. The marks are permanent immediately after printing and remain legible even when exposed to abrasion, aggressive cleaning solvents, and military fuels and oils. The sleeves meet the mark permanence requirements of SAE AS81531 4.6.2 and MIL-STD-202F both before and after shrinking.

- Lightweight permanent identification sleeves
- Computer printable
- Temperature range -55°C to 135°C
- 3 : 1 shrink ratio
- Military specification material and print performance
- CSA Certified
- UL Recognised. VW flame tubing test rated
- Quick recovery for heat sensitive areas
- Available in packs of 250

Recommended usage range	Dia.		Colour	Order Code
	unshrunk	shrunk		
0.81mm - 1.9mm	2.36mm	0.79mm	Yellow	114-6693
0.81mm - 1.9mm	2.36mm	0.79mm	White	114-6694
1.11mm - 2.66mm	3.18mm	1.07mm	Yellow	114-6696
1.11mm - 2.66mm	3.18mm	1.07mm	White	114-6697
1.75mm - 4.06mm	4.75mm	1.57mm	Yellow	114-6698
1.75mm - 4.06mm	4.75mm	1.57mm	White	114-6699
2.31mm - 5.46mm	6.35mm	2.11mm	Yellow	114-6700
2.31mm - 5.46mm	6.35mm	2.11mm	White	114-6702
3.47mm - 8.12mm	9.53mm	3.18mm	Yellow	114-6703
3.47mm - 8.12mm	9.53mm	3.18mm	White	114-6704
4.64mm - 10.79mm	12.7mm	4.22mm	Yellow	114-6705
4.64mm - 10.79mm	12.7mm	4.22mm	White	114-6706

448524.435248

**Coming soon**



Register your interest for items that are 'Coming Soon' at [www.farnell.co.uk](http://www.farnell.co.uk) and we'll email you to let you know that they're in stock.

Order Code	Price/Pack	
	1+	5+
114-6693	70.00	65.81
114-6694	70.00	65.81
114-6696	74.04	69.61
114-6697	74.31	69.85
114-6698	76.46	71.86
114-6699	76.46	71.86

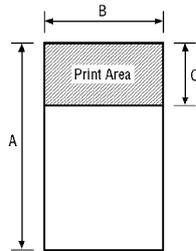


## Heat Shrink Tubing - continued

### Heat Shrinkable Wire Identification Sleeves - continued

Order Code	1+	Price/Pack	5+
114-6700	81.87		76.95
114-6702	84.57		79.49
114-6703	77.24		72.61
114-6704	88.20		82.91
114-6705	107.23		102.41
114-6706	114.17		107.34

### TKM Self Laminating Labels Write on



- Simple, quick and durable self laminating labels for wire, cable and pipe identification
- Write-on white area which is protected against mechanical influences by a transparent layer
- Supplied in handy pocket booklet format for ease of use
- Ideal for field repair or maintenance
- Operating temperature -30°C to +120°C

Mftrs. List No.	Label Height (A)	Label Width (B)	Printable Height (C)	Labels per booklet	Order Code
TKM-50	50	25	15	90	417-7642
TKM-75	75	25	25	60	417-7654
TKM-150	150	25	25	30	417-7666
TKM-230	230	25	25	30	417-7678

243151

Mftrs. List No.	Order Code	1+	Price Per Booklet	5+	10+	25+
TKM-50	417-7642	7.44		6.75	5.62	4.92
TKM-75	417-7654	6.68		6.05	5.04	4.40
TKM-150	417-7666	6.69		6.05	5.04	4.41
TKM-230	417-7678	8.11		7.32	6.10	5.33

### SST Adhesive Sealing - 3:1 Shrink Ratio



- Semi-rigid, Black polymer tubing with thermoplastic adhesive lining
- Positive splice sealing method offers protection under adverse environmental conditions
- Thermoplastic adhesive provides water sealing and mechanical strain relief
- Provides excellent insulation and abrasion resistance
- Flame retardant

- Up to 3:1 shrink ratio
- ABS, DNV and Lloyds approved
- Minimum shrink temperature +90°C
- Minimum full recovery temperature +121°C
- Operating temperature -55°C to +90°C

Mftrs. List No.	Dia. Nom.	Shrunk	Length mm	Nom. Wall Thickness	Order Code
SST-6-04/FR/RS	10.2	3.8	150	1.5	121-0546
SST-6-07/FR/RS	19.1	5.6	150	2.4	121-0547
SST-12-17/FR/RS	43.2	12.7	300	3.0	121-0548
SST-12-27/FR/RS	68.6	22.9	300	3.9	121-0549

227248

Mftrs. List No.	Order Code	1+	Price Each	5+	10+	25+	50+
SST-6-04/FR/RS	121-0546	2.27		2.14	2.08	1.86	1.74
SST-6-07/FR/RS	121-0547	4.91		4.63	4.47	4.09	3.79
SST-12-17/FR/RS	121-0548	7.06		6.65	6.43	5.85	5.38
SST-12-27/FR/RS	121-0549	10.96		10.30	9.97	9.08	8.35

## Troubleshooting tips



Chat live online to one of our technical engineers at [www.farnell.co.uk](http://www.farnell.co.uk)

### SCL - Semi-Rigid Encapsulant-lined 3:1 Shrink Ratio



- Semi-rigid encapsulant lined Black polyolefin tubing
- Meltable inner wall creates a moisture resistant encapsulation
- Provides protection against abrasion, vibration and flexing
- Excellent strain relief and insulation of weak areas
- 3:1 shrink ratio
- UL (E85381) recognised, MIL-DTL-23053/4 approved

- Operating temperature -55°C to +110°C
- Minimum shrink temperature +125°C
- Minimum full recovery temperature +135°C

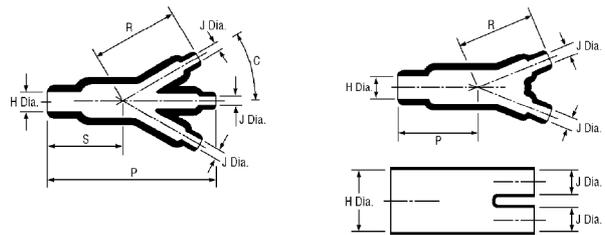
227249

1.2m Lengths				Price Per Length					
Dia.	Nom	Shrunk	Mftrs. List No.	Order Code	1+	5+	10+	25+	50+
3.2	0.6		SCL-1/8-0-4FT	121-0524	2.70	2.48	2.30	2.24	1.99
4.8	1.5		SCL-3/16-0-4FT	121-0525	3.38	3.17	2.89	2.71	2.38
6.4	2		SCL-1/4-0-4FT	121-0526	3.87	3.61	3.39	2.99	2.59
9.5	3.4		SCL-3/8-0-4FT	121-0527	4.67	4.29	4.01	3.81	3.45
12.7	5		SCL-1/2-0-4FT	121-0528	5.25	4.85	4.53	4.10	3.58
19.1	8		SCL-3/4-0-4FT	121-0529	6.80	6.33	6.16	6.05	5.83

### Heat Shrink Moulded Transitions 2:1 Shrink Ratio



(after heating)



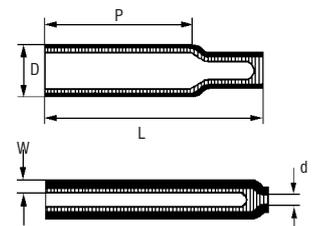
- Provides strain relief sealing and mechanical protection on cable harness assemblies
- -55°C to +135°C operating temperature
- Commercial grade

Expanded as supplied (min)	Recovered after heating (max)							Mftrs. List No.	Order Code	
	H	J	H	J	P	R	S			C
<b>Y Transitions</b>										
13	7	6.1	3.3	22	19				382A012-15-0	769-307
27	13	12.4	6.1	38	43				382A023-15-0	769-319
39	27	18.0	12.4	66	82				382A034-15-0	769-320
<b>3 to 1 transitions</b>										
13	7	6.6	3.6	46	25	21	30		462A011-15-0	769-332
27	13	13.2	6.9	93	50	43	30		462A023-15-0	769-344

208174

Mftrs. List No.	Order Code	1+	Price Each	100+	250+	500+
382A012-15-0	769-307	5.40		4.50	4.13	4.03
382A023-15-0	769-319	8.20		6.82	6.29	6.10
382A034-15-0	769-320	15.94		13.29	12.25	11.87
462A011-15-0	769-332	8.85		7.74	6.86	6.38
462A023-15-0	769-344	12.14		10.58	9.37	8.72

### Heat Shrink PD End Caps 3:1 Shrink Ratio



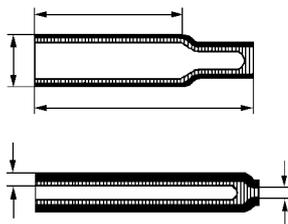
- Encapsulates crimped/soldered connections
- Environmentally sealed, electrically insulated semi-rigid outer wall
- Inner wall melts, flows and seals
- High resistance to common chemicals and solvents
- Insulates and seals twice as fast as conventional methods
- Suitable for dead end electrical cables, motor coils, wire termination
- -55°C to +110°C operating temperature

Inside Diameter		Length		(W) Wall Thickness		Mftrs. List No.	Order Code
(D) Expanded as Supplied	(d) Recovered after heating	(P) Open Barrel as Supplied	(L) Overall as Supplied	Recovered	after Heating		
3.2	0.58	20.0	30	1.27	1.27	PD 1/8-0	769-216
4.8	1.5	15.2	25.4	1.6	1.6	PD 3/16-0	769-228
6.4	2.0	15.2	25.4	2.0	2.0	PD 1/4-0	769-230
9.5	2.3	18.4	30.5	2.1	2.1	PD 3/8-0	769-241
12.7	2.3	21.6	33.0	2.5	2.5	PD 1/2-0	769-253

Mftrs. List No.	Order Code	1+	5+	10+	25+
PD 1/8-0	769-216	13.16	12.02	10.59	8.95
PD 3/16-0	769-228	8.63	7.90	6.93	5.89
PD 1/4-0	769-230	15.90	14.55	12.81	10.85
PD 3/8-0	769-241	29.97	27.37	24.03	20.39
PD 1/2-0	769-253	46.48	43.26	39.52	33.83

Adhesive Lined Heat Shrink ES End Caps

4:1 Shrink Ratio



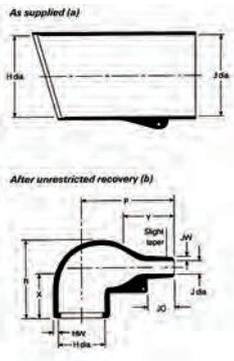
- Thick lined adhesive, forms an effective barrier against fluids and moisture
- High shrink ratio of 4:1 allows few sizes to cover a wide range of diameters
- Mechanically tough jacket provides strain relief and abrasion protection
- Operating temperature -40°C to +105°C
- UL (E85381) recognised
- Suitable for dead-end electrical cables, motor coils and wire termination

Inside Diameter		Length		(W) Wall Thickness		Mftrs. List No.
(D) Expanded as Supplied	(d) Recovered after heating	(P) Open Barrel as Supplied	(L) Overall as Supplied	Recovered	after Heating	
5.7	1.27	17	30	1.20	1.20	ESCAP-NO.1-C1-X/0-30MM
7.4	1.65	17	30	1.52	1.52	ESCAP-NO.2-B9-X/0-30MM
10.8	2.41	23	40	1.91	1.91	ESCAP-NO.1-B8-X/0-40MM

100 Per Pack Mftrs. List No.	Order Code	Clear (X)	Black (O)	1+	5+	10+	25+
ES-CAP-NO.1-C1-X/0-30MM	134-764	121-0314	6.18	5.84	5.27	4.95	
ES-CAP-NO.2-B9-X/0-30MM	134-776	134-806	8.38	7.90	7.62	7.37	
ES-CAP-NO.3-B8-X/0-40MM	134-788	-	17.79	16.41	15.10	13.97	

Heatshrink Boots General Purpose

-25 Material, Right-angled, lipped boot



-25 material heat shrinkable moulded parts are designed to be used in conjunction with other System 25 components providing a complete sealed cable harness system capability. -25 moulded parts have been specifically designed to provide high temperature fluid resistance and long term heat resistance, wherever there is a connector, junction or breakout in a cable harness. Connector versions are available in straight, right-angled and both lipped and non lipped. Transitions are available for forming T junctions, Y pieces, 1 into 3 and 1 into 4 configurations.

-25 moulded parts are particularly suitable for providing excellent location, sealing and strain relief when installed with adhesive S1125 at each interface (using S1125 adhesive kit, FIO stock number: 417-6698).

Typical applications include ruggedized vehicles, aerospace, marine applications, as well as communication, test equipment and high performance commercial and industrial applications.

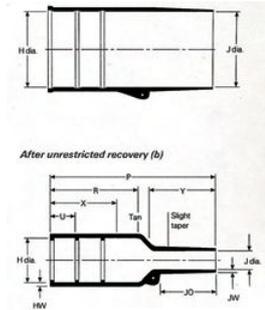
- Excellent chemical and abrasion resistance
- Operating temp range from -75°C to +150°C
- Excellent resistance to high temperature fluids
- Flame retarded
- Resistant to long term exposure to elevated temperatures
- Def Stan 59-97 issue 3 type DE, VG 95343 parts 6,7,8 and 9

As supplied Max. (mm)		After recovery Max. (mm)				Mftrs. List No.	Order Code
H	J	H	J	P	R		
24	24	10.4	5.6	25.0	25.0	222K121-25-0	129-6862
30	30	14.2	5.9	32.0	27.0	222K132-25-0	129-6864
31	31	18	7.1	39.0	31.0	222K142-25-0	129-6865
36	36	22.4	8.4	46.0	38.0	222K152-25-0	129-6866
43	43	28.2	9.9	55.0	45.0	222K163-25-0	129-6868

Mftrs. List No.	Order Code	1+	10+	50+	100+
222K121-25-0	129-6862	5.92	5.67	5.45	5.23
222K132-25-0	129-6864	6.60	6.34	6.09	5.83
222K142-25-0	129-6865	8.07	7.74	7.43	7.13
222K152-25-0	129-6866	10.23	9.81	9.42	9.04
222K163-25-0	129-6868	10.33	10.03	9.52	9.16

Heatshrink Boots General Purpose

-25 Material Straight, lipped boot



-25 material heat shrinkable moulded parts are designed to be used in conjunction with other System 25 components providing a complete sealed cable harness system capability.

-25 moulded parts have been specifically designed to provide high temperature fluid resistance and long term heat resistance, wherever there is a connector, junction or breakout in a cable harness. Connector versions are available in straight, right-angled and both lipped and non lipped. Transitions are available for forming T junctions, Y pieces, 1 into 3 and 1 into 4 configurations.

-25 moulded parts are particularly suitable for providing excellent location, sealing and strain relief when installed with adhesive S1125 at each interface (using S1125 adhesive kit, FIO stock number: 417-6698).

Typical applications include ruggedized vehicles, aerospace, marine applications, as well as communication, test equipment and high performance commercial and industrial applications.

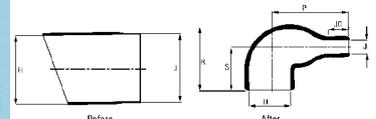
- Excellent chemical and abrasion resistance
- Operating temp range from -75°C to +150°C
- Excellent resistance to high temperature fluids
- Flame retarded
- Resistant to long term exposure to elevated temperatures
- Def Stan 59-97 issue 3 type DE, VG 95343 parts 6,7,8 and 9

As supplied Min. (mm)		After recovery Max. (mm)				Mftrs. List No.	Order Code
H	J	H	J	P	R		
17	17	6.9	3	39.0	24.0	202K111-25-0	129-6849
24	24	10.4	5.6	38.0	21.0	202K121-25-0	129-6850
30	30	14.2	5.9	55.0	32.0	202K132-25-0	129-6852
31	31	18	7.1	67.0	35.0	202K142-25-0	129-6853
36	36	22.4	8.4	80.0	42.0	202K153-25-0	129-6854
43	43	28.2	9.9	99.0	61.0	202K163-25-0	129-6855

Mftrs. List No.	Order Code	1+	10+	50+	100+
202K111-25-0	129-6849	4.91	4.72	4.52	4.34
202K121-25-0	129-6850	5.14	4.94	4.74	4.54
202K132-25-0	129-6852	5.61	5.38	5.18	4.97
202K142-25-0	129-6853	7.37	7.08	6.79	6.51
202K153-25-0	129-6854	7.90	7.58	7.28	6.98
202K163-25-0	129-6855	8.90	8.54	8.20	7.87

Heat Shrink Connector Boots

-25 Material, Right Angle



-25 material heat shrinkable moulded parts are designed to be used in conjunction with other System 25 components providing a complete sealed cable harness system capability.

-25 moulded parts have been specifically designed to provide high temperature fluid resistance and long term heat resistance, wherever there is a connector, junction or breakout in a cable harness. Connector versions are available in straight, right-angled and both lipped and non lipped. Transitions are available for forming T junctions, Y pieces, 1 into 3 and 1 into 4 configurations.

-25 moulded parts are particularly suitable for providing excellent location, sealing and strain relief when installed with adhesive S1125 at each interface (using S1125 adhesive kit, FIO stock number: 417-6698).

## Heat Shrink Tubing - continued

### Heat Shrink Connector Boots - continued

-25 Material, Right Angle - continued

relief when installed with adhesive S1125 at each interface (using S1125 adhesive kit, FIO stock number: **417-6698** ).

Typical applications include ruggedized vehicles, aerospace, marine applications, as well as communication, test equipment and high performance commercial and industrial applications.

- Excellent chemical and abrasion resistance
- Operating temp range from -75°C to +150°C
- Excellent resistance to high temperature fluids
- Flame retarded
- Resistant to long term exposure to elevated temperatures
- Def Stan 59-97 issue 3 type DE, VG 95343 parts 6,7,8 and 9

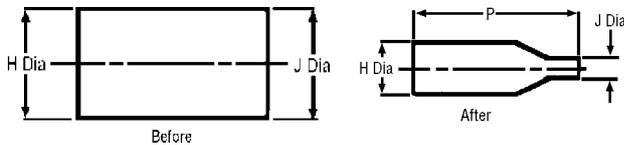
As supplied Max. (mm)		After recovery Max. (mm)						Mftrs. List No.	Order Code
H	J	H	J	P	R	S	JO		
17.8	17.8	7.9	3.8	17.3	20.1	19.1	4.3	222A111-25-0	129-6856
24.9	24.9	10.2	5.3	21.3	22.6	19.1	5.8	222A121-25-0	129-6857
30	30	14.2	6.4	26.9	26.7	19.1	7.1	222A132-25-0	129-6858
32.5	32.5	17.3	6.9	36.6	30.5	19.1	10.2	222A142-25-0	129-6859
36.1	36.1	21.8	8.4	43.7	35.1	19.1	12.7	222A152-25-0	129-6860
43.9	43.9	27.4	9.4	53.6	43.9	19.1	17.3	222A163-25-0	129-6861

449800

Mftrs. List No.	Order Code	1+	10+	50+	100+
222A111-25-0	129-6856	6.71	6.44	6.19	5.94
222A121-25-0	129-6857	6.89	6.60	6.34	6.09
222A132-25-0	129-6858	7.06	6.76	6.49	6.24
222A142-25-0	129-6859	8.04	7.71	7.40	7.11
222A152-25-0	129-6860	9.00	8.63	8.29	7.96
222A163-25-0	129-6861	10.65	10.23	9.81	9.42

### Heat Shrink Connector Boots

-25 Material



-25 material heat shrinkable moulded parts are designed to be used in conjunction with other System 25 components providing a complete sealed cable harness system capability.

-25 moulded parts have been specifically designed to provide high temperature fluid resistance and long term heat resistance, wherever there is a connector, junction or breakout in a cable harness. Connector versions are available in straight, right-angled and both lipped and non lipped. Transitions are available for forming T junctions, Y pieces, 1 into 3 and 1 into 4 configurations.

-25 moulded parts are particularly suitable for providing excellent location, sealing and strain relief when installed with adhesive S1125 at each interface (using S1125 adhesive kit, FIO stock number: **417-6698** ).

Typical applications include ruggedized vehicles, aerospace, marine applications, as well as communication, test equipment and high performance commercial and industrial applications.

- Excellent chemical and abrasion resistance
- Operating temp range from -75°C to +150°C
- Excellent resistance to high temperature fluids
- Flame retarded
- Resistant to long term exposure to elevated temperatures
- Def Stan 59-97 issue 3 type DE, VG 95343 parts 6,7,8 and 9

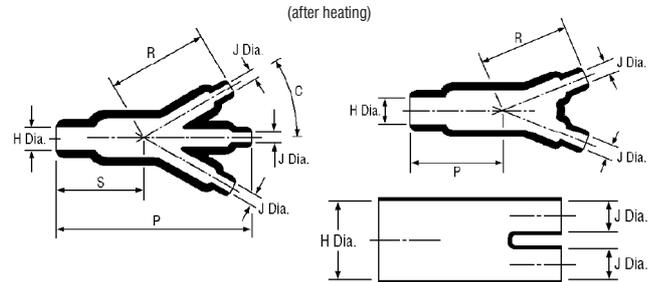
As supplied Min. (mm)		After recovery Max. (mm)			Mftrs. List No.	Order Code
H	J	H	J	P		
16.5	16.5	7.9	3.8	25.4	202A111-25-0	129-6843
24.6	24.6	9.9	5.3	38.1	202A121-25-0	129-6844
28.4	28.4	14.2	6.6	51.3	202A132-25-0	129-6845
31	31.0	17.8	7.4	66.8	202A142-25-0	129-6846
36.1	36.1	21.9	8.6	73.7	202A153-25-0	129-6847
42.7	42.7	27.4	9.4	99.1	202A163-25-0	129-6848

449806

Mftrs. List No.	Order Code	1+	10+	50+	100+
202A111-25-0	129-6843	4.58	4.39	4.21	4.05
202A121-25-0	129-6844	5.03	4.82	4.62	4.44
202A132-25-0	129-6845	5.78	5.54	5.32	5.10
202A142-25-0	129-6846	7.15	6.86	6.58	6.32
202A153-25-0	129-6847	7.64	7.34	7.05	6.75
202A163-25-0	129-6848	8.81	8.46	8.12	7.79

### Heat Shrink Moulded Transitions

-25 Material, 2:1 Shrink Ratio



-25 material heat shrinkable moulded parts are designed to be used in conjunction with other System 25 components providing a complete sealed cable harness system capability.

-25 moulded parts have been specifically designed to provide high temperature fluid resistance and long term heat resistance, wherever there is a connector, junction or breakout in a cable harness. Connector versions are available in straight, right-angled and both lipped and non lipped. Transitions are available for forming T junctions, Y pieces, 1 into 3 and 1 into 4 configurations.

-25 moulded parts are particularly suitable for providing excellent location, sealing and strain relief when installed with adhesive S1125 at each interface (using S1125 adhesive kit, FIO stock number: **417-6698** ).

Typical applications include ruggedized vehicles, aerospace, marine applications, as well as communication, test equipment and high performance commercial and industrial applications.

- Excellent chemical and abrasion resistance
- Operating temp range from -75°C to +150°C
- Excellent resistance to high temperature fluids
- Flame retarded
- Resistant to long term exposure to elevated temperatures
- Def Stan 59-97 issue 3 type DE, VG 95343 parts 6,7,8 and 9

As supplied Min. (mm)		After recovery Max. (mm)				Mftrs. List No.	Order Code
H	J	H	J	P	S	C	
<b>Y Transitions</b>							
13.2	6.6	6.1	3.3	23.9	-	-	382A012-25-0
26.9	13.2	12.4	6.1	53.3	-	-	382A023-25-0
38.6	26.9	18	12.4	78.7	-	-	382A034-25-0
<b>3 to 1 transitions</b>							
13.2	6.6	6.6	3.6	46.2	30.5	30.0	462A011-25-0
26.9	13.2	13.2	6.9	93.2	57.2	30.0	462A023-25-0
38.6	19.3	18.8	9.7	135.1	88.9	30.0	462A034-25-0

449818

Mftrs. List No.	Order Code	1+	10+	50+	100+
382A012-25-0	129-6876	6.60	6.34	6.09	5.83
382A023-25-0	129-6877	10.11	9.69	9.31	8.94
382A034-25-0	129-6878	20.03	19.23	18.46	17.72
462A011-25-0	129-6879	14.81	14.22	13.65	13.10
462A023-25-0	129-6880	17.91	17.19	16.51	15.84
462A034-25-0	129-6881	25.04	24.04	23.07	22.14

### Heat Shrink Moulded Transition

-25 Material, 1 to 4 Cables



-25 material heat shrinkable moulded parts are designed to be used in conjunction with other System 25 components providing a complete sealed cable harness system capability.

-25 moulded parts have been specifically designed to provide high temperature fluid resistance and long term heat resistance, wherever there is a connector, junction or breakout in a cable harness. Connector versions are available in straight, right-angled and both lipped and non lipped. Transitions are available for forming T junctions, Y pieces, 1 into 3 and 1 into 4 configurations.

-25 moulded parts are particularly suitable for providing excellent location, sealing and strain relief when installed with adhesive S1125 at each interface (using S1125 adhesive kit, FIO stock number: **417-6698** ).

Typical applications include ruggedized vehicles, aerospace, marine applications, as well as communication, test equipment and high performance commercial and industrial applications.

- Excellent chemical and abrasion resistance
- Operating temp range from -75°C to +150°C
- Excellent resistance to high temperature fluids
- Flame retarded
- Resistant to long term exposure to elevated temperatures
- Def Stan 59-97 issue 3 type DE, VG 95343 parts 6,7,8 and 9

As supplied Min. (mm)		After recovery Max. (mm)				Mftrs. List No.	Order Code
H	J, K, L and N	H	J, K, L and N	T	P		
13.2	6.6	6.9	3.4	43.9	24.1	562A011-25-0	129-6882
19.3	13.2	9.7	6.9	50.5	49.3	562A032-25-0	129-6884

449832

Over 480,000 products online



Mfrs. List No.	Order Code	1+	10+	50+	100+
562A011-25-0	129-6882●	17.67	16.96	16.27	15.63
562A032-25-0	129-6884●	32.34	31.03	29.79	28.60

**Heat Shrink Moulded 'T' Transition**

-25 Material, 1.8:1 Shrink Ratio



-25 material heat shrinkable moulded parts are designed to be used in conjunction with other System 25 components providing a complete sealed cable harness system capability.

-25 moulded parts have been specifically designed to provide high temperature fluid resistance and long term heat resistance, wherever there is a connector, junction or break-out in a cable harness. Connector versions are available in straight, right-angled and both lipped and non lipped. Transitions are available for forming T junctions, Y pieces, 1 into 3 and 1 into 4 configurations.

-25 moulded parts are particularly suitable for providing excellent location, sealing and strain relief when installed with adhesive S1125 at each interface (using S1125 adhesive kit, FIO stock number: 417-6698).

Typical applications include ruggedized vehicles, aerospace, marine applications, as well as communication, test equipment and high performance commercial and industrial applications.



- Excellent chemical and abrasion resistance
- Operating temp range from -75°C to +150°C
- Excellent resistance to high temperature fluids
- Flame retarded
- Resistant to long term exposure to elevated temperatures
- Def Stan 59-97 issue 3 type DE, VG 95343 parts 6,7,8 and 9

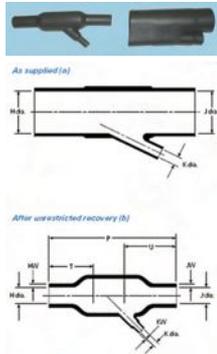
As supplied Min. (mm)		After recovery Max. (mm)			Mfrs. List No.	Order Code	
H, J and K		H, J and K	P	S			T
6.6		3.6	29.7	15.1	10.6	301A011-25-0	129-6869
13.2		6.9	58.7	29.5	17.5	301A022-25-0	129-6870
36.9		13.5	120.1	60.2	35.6	301A034-25-0	129-6871

449830

Mfrs. List No.	Order Code	1+	10+	50+	100+
301A011-25-0	129-6869●	12.54	12.02	11.54	11.09
301A022-25-0	129-6870●	12.63	12.13	11.64	11.18
301A034-25-0	129-6871●	16.05	15.41	14.78	14.19

**Heat Shrink Moulded Transition**

-25 Material, 45° Side-breakout



-25 material heat shrinkable moulded parts are designed to be used in conjunction with other System 25 components providing a complete sealed cable harness system capability.

-25 moulded parts have been specifically designed to provide high temperature fluid resistance and long term heat resistance, wherever there is a connector, junction or break-out in a cable harness. Connector versions are available in straight, right-angled and both lipped and non lipped. Transitions are available for forming T junctions, Y pieces, 1 into 3 and 1 into 4 configurations.

-25 moulded parts are particularly suitable for providing excellent location, sealing and strain relief when installed with adhesive S1125 at each interface (using S1125 adhesive kit, FIO stock number: 417-6698).

Typical applications include ruggedized vehicles, aerospace, marine applications, as well as communication, test equipment and high performance commercial and industrial applications.

- Excellent chemical and abrasion resistance
- Operating temp range from -75°C to +150°C
- Excellent resistance to high temperature fluids
- Flame retarded
- Resistant to long term exposure to elevated temperatures
- Def Stan 59-97 issue 3 type DE, VG 95343 parts 6,7,8 and 9

As supplied Min. (mm)		After recovery Max. (mm)			Mfrs. List No.	Order Code
H and J	K	H and J	K	P		
13.2	6.6	6.9	3.6	49.3	342A012-25-0	129-6872
26.9	6.6	12.7	3.6	92.5	342A024-25-0	129-6873
26.9	13.2	13.7	6.1	144.8	342A034-25-0	129-6874

449831

Mfrs. List No.	Order Code	1+	10+	50+	100+
342A012-25-0	129-6872●	8.04	7.71	7.40	7.11
342A024-25-0	129-6873●	13.95	13.39	12.85	12.34
342A034-25-0	129-6874●	22.79	21.87	20.99	20.16

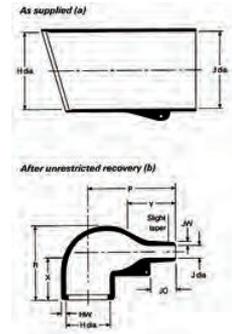
**Premium service without a premium price**



With thousands of prices already reduced, go online to see our most up-to-date pricing: [www.farnell.co.uk](http://www.farnell.co.uk)

**Heatshrink Boots General Purpose**

Right-angled, lipped boot



When used in conjunction with a suitable adaptor or rear mounting, these right-angled boots provide strain relief, mechanical protection and sealing when used in conjunction with S1125 adhesive.

- Semi-rigid flame-retardant Polyolefin
- Provides excellent strain relief
- Repairable
- Good resistance to fluids and heat
- Electric Strength 8MV/m(min)
- Operating temperature -55 °C to 135°C

Approvals UL224, Def Stan 59-97 Issue 3 Type DA, BS-G198-5-DA

Order Code	H (a)	H (b)	J (a)	J (b)	P (b)	R (b)
496-6545	30.0	14.2	30.0	5.9	32.0	27.0
496-6557	31.0	18.0	31.0	7.1	39.0	31.0

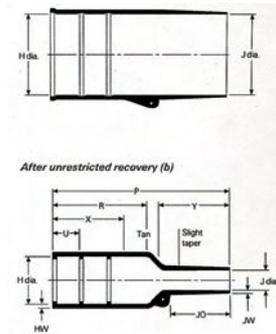
(a) As supplied, (b) After recovery all dimensions in millimeters (mm)

381419

Mfrs. List No.	Order Code	1+	5+
222K132-3-0	496-6545●	6.97	6.65
222K142-3-0	496-6557●	8.43	8.04

**Heatshrink Boots General Purpose**

Straight, lipped boot



When used in conjunction with a suitable adaptor or rear mounting, these straight angled boots provide strain relief, mechanical protection and sealing when used in conjunction with S1125 adhesive.

- Semi-rigid flame-retardant Polyolefin
- Provides excellent strain relief
- Repairable
- Good resistance to fluids and heat
- Electric Strength 8MV/m(min)
- Operating temperature -55 °C to 135°C

Approvals UL224, Def Stan 59-97 Issue 3 Type DA, BS-G198-5-DA

Order Code	H (a)	H (b)	J (a)	J (b)	P (b)	R (b)
496-6478	24.0	10.4	24.0	5.6	38.0	21.0
496-6480	30.0	14.2	30.0	5.9	55.0	32.0
496-6491	31.0	18.0	31.0	7.1	67.0	35.0
496-6510	43.0	28.2	43.0	9.9	99.0	61.0

(a) As supplied, (b) After recovery all dimensions in millimeters (mm)

374364

Mfrs. List No.	Order Code	1+	5+
202K121-3-0	496-6478●	5.37	5.13
202K132-3-0	496-6480●	6.02	5.73
202K142-3-0	496-6491●	7.72	7.36
202K163-3-0	496-6510●	9.31	8.87

**FREE global legislation support**



RoHS, REACH, WEEE, EuP, Batteries Directive - we've got it covered at: [www.global-legislation.com](http://www.global-legislation.com)



## Heat Shrink Tubing - continued

### ENC End Caps



Heatshrink adhesive lined end caps are used to seal the ends of plastic, rubber and paper insulated cables, from moisture, dirt and corrosion.

- Resistant to common fluids and chemicals
- Rugged installation
- Seals and protects cable ends (Waterproof)
- Each size covers a wide range of cable sizes

Mftrs. List No.	Application Range	Internal Dia. as supplied	Length after recovery	Wall Thickness after recovery	Order Code
ENC-11/ADH	4 - 8	10	38.0	2.0	121-0588
ENC-22/ADH	8 - 17	20	55.0	2.8	121-0589
ENC-33/ADH	17 - 30	35	90.0	3.2	121-0590
ENC-44/ADH	30 - 45	55	143	3.9	121-0591

all dimensions in millimeters (mm)

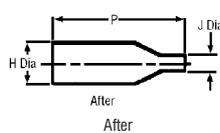
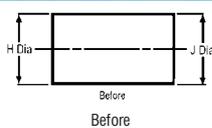
374330

Order Code	Price Each	
	1+	5+
121-0588●	0.65	0.61
121-0589●	0.83	0.79
121-0590●	1.38	1.33
121-0591●	2.29	2.19

### Heat Shrink Connector Boots



- Provides mechanical protection and connector-cable strain relief
- No lip provides direct installation onto connector thread
- Flame retardant
- -55°C to +135°C operating temperature



Expanded (min)		Recovered (max)			Mftrs. List No.	Order Code
H	J	H	J	P		
24	24	9.9	5.3	38	202A121-15-0	769-265
28	28	14.2	6.6	51	202A132-15-0	769-277
31	31	17.8	7.4	67	202A142-15-CS-0	769-289
36	36	21.9	8.6	74	202A153-15-0	769-290

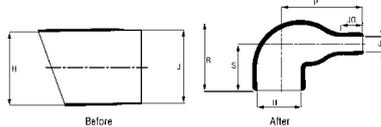
208178

Mftrs. List No.	Order Code	Price Each			
		1+	100+	250+	500+
202A121-15-0	769-265●	3.68	3.21	2.84	2.61
202A132-15-0	769-277●	4.91	4.30	3.82	3.51
202A142-15-CS-0	769-289●	5.52	4.84	4.29	3.94
202A153-15-0	769-290●	6.34	5.52	5.15	4.56

### Heat Shrink Connector Boots



#### Right Angle



- Provides mechanical protection and strain relief
- No lip provides direct installation onto connector thread
- Flame retardant
- Operating temperature -55°C to +135°C
- Commercial grade

Expanded dia (min)		Recovered dia (max)			Mftrs. List No.	Order Code
H	J	H	J	P		
24	24	10.2	5.3	21	222A121-15-0	121-0320
30	30	14.2	6.4	27	222A132-15-0	134-971
32	32	17.3	6.9	37	222A142-15-0	134-983
36	36	21.8	8.4	44	222A152-15-0	134-995

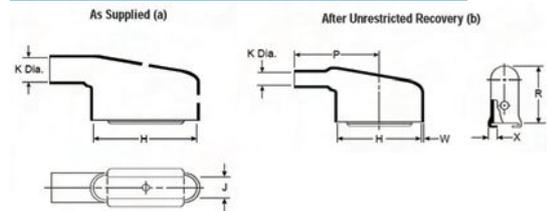
208271

Mftrs. List No.	Order Code	Price Each			
		1+	100+	250+	500+
222A121-15-0	121-0320●	3.95	3.57	3.21	2.97
222A132-15-0	134-971●	5.84	5.28	4.76	4.37
222A142-15-0	134-983●	6.57	5.94	5.33	4.91
222A152-15-0	134-995●	7.54	6.84	6.15	5.63

### Heatshrink D-Subminiature Right-Angled Boot



**New**



- Provides strain relief and mechanical protection on 90° D-sub miniature connector terminations
- An adhesive seal to the connector and cable entry can be obtained by use of a S1125 adhesive
- -55°C to +135°C operating temperature

Mftrs. List No.	Order Code	A supplied Min. (mm)			After recovery Max. (mm)				
		H	J	K	H	J	K	P	R
234A011-3-0	152-6824●	20.3	10.7	7.9	20.3	10.7	4.1	25.9	21.6
234A021-3-0	152-6825●	28.2	10.7	10.2	28.2	10.7	5.3	30.7	24.6
234A032-3-0	152-6826●	42.2	10.7	14.0	42.2	10.7	7.4	42.9	27.9

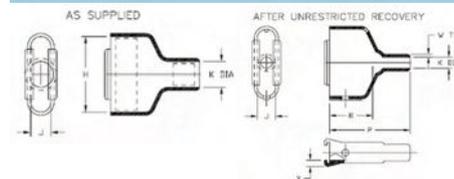
500838

Mftrs. List No.	Order Code	Price Each				
		1+	10+	25+	50+	
234A011-3-0	152-6824●	8.83	8.57	8.32	8.07	
234A021-3-0	152-6825●	10.05	9.73	9.45	9.17	
234A032-3-0	152-6826●	10.42	10.12	9.82	9.52	

### Heatshrink D-Subminiature Straight Boot



**New**



- Provides strain relief and mechanical protection on straight D-sub miniature connector terminations
- An adhesive seal to the connector and cable entry can be obtained by use of a S1125 adhesive
- -55°C to +135°C operating temperature

Mftrs. List No.	Order Code	A supplied Min. (mm)			After recovery Max. (mm)				
		H	J	K	H	J	K	P	R
214A011-3-0	152-6821●	20.3	10.7	7.9	20.3	10.7	4.1	33.3	19.1
214A021-3-0	152-6822●	28.2	10.7	10.2	28.2	10.7	5.3	38.9	22.1
214A032-3-0	152-6823●	42.2	10.7	14.0	42.2	10.7	8.1	45.0	25.4

500844

Mftrs. List No.	Order Code	Price Each			
		1+	10+	25+	50+
214A011-3-0	152-6821●	8.50	8.24	8.00	7.76
214A021-3-0	152-6822●	8.83	8.57	8.32	8.07
214A032-3-0	152-6823●	9.28	9.00	8.72	8.46

### CES™ Heat Shrink Feedthrough Glands



- Three-part assembly: rigid plastic nut, O-ring seal, adhesive-lined moulded area
- Minimum shrink temperature 120°C
- Operating temperature -55°C to +90°C
- Flame retardant
- Fume-tight and water-tight to IPX8 i.e. not tested for solid objects but tested against water pressure to 1.7bar for 30 mins.

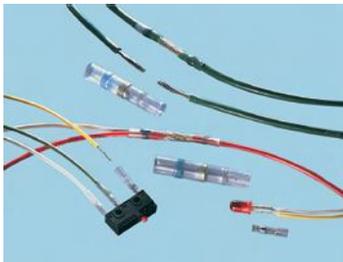
- Approvals:  
**Lloyds** (Lloyds Register of Shipping) type approval  
**ABS** (American Bureau of Shipping) type approval  
**DNV** (Det Norske Veritas) type approval

Sleeve inside dia. Nominal	Shrunk	Nut outside dia.	Panel hole dia.	Mfrs. List No.	Order Code
12.7	4.3	35.8	25.4	CES-1	121-0316
19.1	6.4	35.8	25.4	CES-2	121-0317
28.5	12.7	48.3	35.1	CES-3	121-0318

208278

Sleeve inside dia. Nominal	Shrunk	Order Code	1+	10+	25+	50+	100+	Price Each
12.7	4.3	121-0316	6.18	5.92	5.60	5.37	4.94	
19.1	6.4	121-0317	7.46	7.12	6.75	6.50	6.06	
28.5	12.7	121-0318	12.55	11.94	11.55	11.18	10.83	

**One-Step™ SolderSleeve™ Wire Terminators**



**Features:-**

- Solder ring within a heatsink transparent sealing sleeve
- Provides One-Step™ electrical termination - Soldered, Strain relieved, Sealed
- Compatible with low temperature wires (PVC)
- One piece design simplifies and speeds installation
- Transparent insulation for quick inspection
- -55°C to +125°C
- UL approved

**Applications:-**

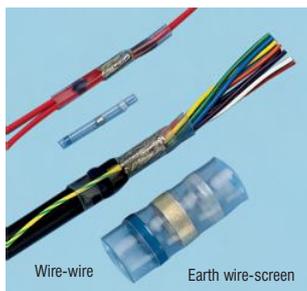
- For soldered electrical terminations
- Repairs solder joints, splicing, automotive harnesses
- Grounding cables to connector shells, panels
- In-line components, resistors, temp. sensors, reed switches
- Strain relief on fragile coaxial cables

**Assembly**

1. Position Soldersleeve™ over wires to be terminated
2. Apply heat using hot air gun
3. Wait until sleeve shrinks, blue sealing insert melts and solder flows
4. Result is a soldered, insulated, sealed, strain relieved, inspectable termination

208169

**Wire-Wire and Earth Wire-Screen Splices**



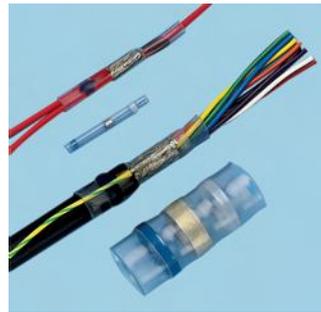
- SolderSleeve™ provides an environmental sealed, insulated and strain relieved solder connection
- Suitable for splicing wires and screens
- Repairing broken/sheered wires
- Splicing ground wire to screen for earthing

Cable Diameter	Length	Mfrs. List No.	Order Code
<b>Wire-wire and wire-screen, 100 per box</b>			
26mm		B-155-3801	119-6243
26mm		B-155-3802	119-6244
42mm		B-155-3803	119-6245
42mm		B-155-3805	119-6246
42mm		B-155-3806	119-6247
42mm		B-155-3807	119-6249
<b>Wire-screen only, 50 per box</b>			
42mm		B-155-3809	119-6251
42mm		B-155-3811	119-6252
42mm		B-155-3813	119-6253

208170

Order Code	1+	5+	10+	100+	Price Per Box
119-6243	42.42	39.04	31.56	29.18	
119-6244	44.08	40.56	34.66	32.06	
119-6245	47.01	43.26	37.05	34.04	
119-6246	49.95	45.98	35.66	33.26	
119-6247	54.22	50.42	41.98	38.90	
119-6249	60.07	55.27	48.52	44.77	
119-6251	42.07	37.32	29.50	27.54	
119-6252	51.90	48.79	41.91	40.51	
119-6253	84.92	78.98	76.45	73.63	

**RoHS Compliant SolderSleeve™ Terminators**



SolderSleeve™ terminators provide a one piece, completely soldered, strain relieved, sealed termination for tinned or bare copper wire conductors. The one piece design allows for a one step simple installation. Compatible with low temperature wires (PVC).

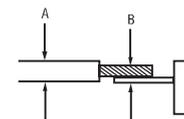
- Fluxed solder ring within a transparent polyolefin heat-shrinkable sealing sleeve
- One piece design
- Terminates tinned or bare copper conductors
- Temperature range -55°C to +125°C

Diameter range	Sleeve Length	Pack qty	Mfrs. List No.	Order Code
1.5mm - 3.0mm	24.5	100	B-155-03	129-2903
2.0mm - 4.8mm	29.3	100	B-155-05	129-2904
3.3mm - 7.3mm	32.5	50	B-155-07	129-2905
4.5mm - 11.5mm	35.5	25	B-155-11	129-2906
7.0mm - 15.1mm	45.5	10	B-155-13	129-2907

449604

Mfrs. List No.	Order Code	1+	5+	10+	25+	Price Per Pack
B-155-03	129-2903	35.13	34.07	33.04	32.05	
B-155-05	129-2904	37.32	36.20	35.12	34.06	
B-155-07	129-2905	20.52	19.90	19.30	18.17	
B-155-11	129-2906	27.74	26.90	26.09	25.17	
B-155-13	129-2907	16.03	15.54	15.07	14.52	

**Wire Termination to Pin, Post or Tab**



- SolderSleeve™ gives a perfectly soldered, insulated and strain relieved termination
- Suitable for terminating wires to connectors, switches, LED's, PCB pins and components
- Simply place over joint, insert wire, heat and the solder will flow into joint and shrink sleeve

A (max.)	B	Sleeve Length	Mfrs. List No.	Order Code
2.0	0.9-1.5	16	B-155-1501	119-6241
2.9	1.1-2.3	16	B-155-1502	119-6242

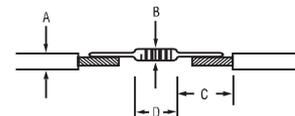
208171

Mfrs. List No.	Order Code	1+	5+	10+	25+	Price Per Pack
B-155-1501	119-6241	56.13	51.81	39.12	34.06	
B-155-1502	119-6242	92.67	87.67	82.65	77.12	

**In-Line Component Terminators**



- SolderSleeve™ terminates, insulates and strain relieves
- Suitable for diodes, resistors, reed switches, temp. sensors
- Supplied in two mating halves to encapsulate component



A	B	C	D	Sleeve Length(max.)	Mfrs. List No.	Order Code
1.1-1.5	1.8-2.5	8.5 ±0.5	6.5-8.0	22	B-155-2001	119-6240

208172

Order Code	1+	5+	10+	25+	Price Per Pack
119-6240	76.51	61.25	57.28	49.77	

## Heat Shrink Tubing - continued

### Coaxial Cable Terminators



Solder Sleeve = 21 Leads = 150

- Solder Sleeve™ provides sealed, strain relieved, insulated soldered electrical connection
- Suitable for linking braid and centre of coaxial cables to connector buckets, pins or terminals
- Prevents centre conductor breakage problems
- Supplied in two mating halves with 150mm flying leads attached

208173

#### 10 Pairs Per Pack

Coax Cable Type	Mfrs. List No.	Order Code	1+	5+	10+	25+
RG174	B-155-4174-35-22-5/9-10	119-6409●	76.14	69.16	66.28	63.08

### Hot Melt/Heatshrink Tapes



#### S1030 Hot Melt Zero Halogen Tape

- Non-flame retarded hot melt black adhesive tape
- EVA/polyamide polymer based
- Recommended for high flexibility at low temperatures
- Ideal for marine environments
- Extremely easy to use, adhesive exhibits excellent flow very quickly when heated under normal installation conditions

- Not recommended where aggressive solvents may be present
- Operating temperature -80°C to +80°C

#### S1081 Heatshrinkable Repair Tape

- Black non-flame retarded, polyolefin based harness tape
- When heated to in excess of 120°C tape shrinks lengthways and self amalgamates
- Ideal for use on damaged cable or where installing heat shrink is impractical
- Tape width: 20mm, thickness: 0.64mm
- Operating temperature -80°C to +130°C

248489

Mfrs. List No.	Length	Order Code	1+	5+	10+	25+	50+
S1030	10m	417-6704●	12.26	11.53	11.17	10.81	10.47
S1081	10m	417-6716●	31.76	29.86	28.91	28.00	27.11

### S1125 Heatshrink Adhesive



- Two part Black epoxy/polyamide adhesive kit
- Superior chemical and heat resistant properties
- Supplied in a bi-pac, eliminating mixing errors
- Cures at room temperature to provides optimum performance
- 1 - 1 1/2 hour pot life after mixing
- Suitable for use with heat shrink, moulded parts, tubings, adaptors and back fittings. When mixed the adhesive sets to form a

complete seal between the moulded shape/tubing/back fitting

- Kit contains 5x10g sachets, abrasive paper for cable preparation, mixing bowls, stick and installation procedure
- Operating temperature -75°C to +150°C
- VG95343 approved

248488

	Order Code	1+	5+	10+	25+
S1125-KIT-1	417-6698●	38.00	35.73	34.20	32.73

### Two Part Epoxy Adhesive

#### S1005/S1006



S1005/S1006 two part epoxy adhesives for many substrates including Raychem polyolefin tubings, Raychem moulded parts and adaptors, aluminium alloy standard connector end fittings and other metals including mild steel, brass and copper.

- Cures at room temperature in 24hrs
- Suitable for metals including mild steel, brass and copper

#### S1005

Supplied in two parts A and B. Part A, the epoxy is pale yellow. Part B, the polyamide hardener is amber. Measure one Part A and two Parts B by volume to mix. Contains 2 bottles, 89ml Part A, 178ml Part B.

#### S1006

Supplied with the epoxy and the hardener pre weighed in two sachets separated by a dividing rail. Slide off dividing rail and kneed contents to mix. Contains 2 sachets, 15g each.

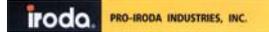
Pot life (once mixed)	Room temperature	Cure time at			Mfrs. List No.	Order Code
		60°C	95°C	120°C		
2 hrs	24 hrs	4 hrs	1 hr	24 minutes	S1005-KIT-1	129-2725
2 hrs	24 hrs	4 hrs	1 hr	24 minutes	S1006-KIT-1	129-2726

449699

Mfrs. List No.	Order Code	1+	5+	10+	25+
S1005-KIT-1	129-2725●	21.88	20.32	19.00	17.98
S1006-KIT-1	129-2726●	13.44	12.48	11.98	11.04

## Heat Shrink Guns

### Heat Shrink Guns - Portable



#### Butane Gas Powered



- Flameless heat of up to 750°C
- Piezo electronic automatic ignition system
- Operates for 120 minutes with 20ml gas (gas not included)
- Gas control lever to control temperature
- Full instructions included
- Ideal for use with heatshrink
- Deflector attachment and stand included
- Spare orifice assembly provided

Weight (when gas filled)	135g	Gas container capacity	20ml
Nozzle Size	I.D. 14 O.D. 20		

227487

Mfrs. List No.	Order Code	1+	5+	10+	25+
MJ-950	353-3992	35.98	32.75	26.84	22.62

### Two Speed HL1610



- 1600W entry level model for standard hot air applications
- Two-stage airflow/temperature switch
- Double overheat protection, thermostat & thermal cut-out (restable)
- Hand-held and self-resting
- Available in UK and European Schuko plugs



Air flow setting	I	II
Temperature Range	300°C	500°C
Air Flow	240 l/min	500 l/min
Output	1600W	
Dimensions (WxDxH)	240 x 89 x 200mm	
Weight	700g	

361146

Heat Gun Plug	Mfrs. List No.	Order Code	1+	3+
UK	HL1610S	799-7663	47.10	44.88
Schuko	HL1610SEUR	799-7680	57.46	52.66
<b>Reflector Nozzles</b>				
Standard	070519	311-6797	8.12	7.54
75mm Wide	073015	311-6815	16.27	15.13
Soldering	074616	311-6852	5.59	5.19
<b>Reduction Nozzles</b>				
9mm Diameter	070618	815-0788	5.37	4.98
14mm Diameter	070717	311-6803	3.37	3.24
20mm Diameter	070816	815-0770	5.37	4.98

### Three Speed HL2010



- Microprocessor controlled, 2000W high-end hot air gun
- Selectable and actual temperature shown on LCD display
- Three-stage airflow/temperature switch
- Electronic temperature control
- Ergonomic soft grip handle
- Double overheat protection, thermostat & thermal cut-out (restable)
- Hand-held and self-resting
- Available in UK and European Schuko plugs



Air flow setting	I	II	III
Temperature range	50 °C	50 - 630 °C	
Air Flow	150 l/min	300 l/min	500 l/min
Temperature setting	Adjustable in 10 °C steps		
Output	2000W		
Dimensions (WxDxH)	260 x 90 x 205mm		
Weight	860g		

361156

Heat Gun Plug	Mfrs. List No.	Order Code	Price Each	
			1+	3+
UK	HL2010E	799-7671	107.69	104.53
Schuko	HL2010E EUR	799-7698	114.92	105.34
Reflector Nozzles				
Standard	070519	311-6797	8.12	7.54
75mm Wide	073015	311-6815	16.27	15.13
Soldering	074616	311-6852	5.59	5.19
Reduction Nozzles				
9mm Diameter	070618	815-0788	5.37	4.98
14mm Diameter	070717	311-6803	3.37	3.24
20mm Diameter	070816	815-0770	5.37	4.98

Weldy Pic Hot Air Tool

WELDY



- Standard two step heat gun
- Two temperature and airflow settings
- Light weight ergonomic design
- Available in 230V with a UK plug
- Full range of accessories available below



Operating Voltage	Output	Temperature Range	Airflow	Weight
230V		+350°C to +500°C	350/500 l/min	500g

230V UK Plug	Order Code	Price Each		
		1+	5+	10+
	357-6346	69.97	63.36	58.49

Weldy Pro Hot Air Tool

WELDY



- Adjustable temperature and two step air flow switch
- Light weight ergonomic design
- Available in 230V, UK and European Schuko plugs and 120V without a plug
- Full range of accessories available below



Operating Voltage	Output	Temperature Range	Airflow	Weight
230V	1800W	+100°C to +550°C	250-550 l/min	570g

230V UK Plug	Order Code	Price Each		
		1+	5+	10+
	317-8596	87.67	82.21	73.37
230V European Schuko Plug	317-8602	80.24	75.26	67.15

Weldy Plus Hot Air Tool

WELDY



- Digitally adjustable temperature and airflow
- 8 memory functions including set, shrink, form weld, solder, paint and dry with pre-settable temperature and airflow
- Light weight ergonomic design
- Available in 230V, UK and European Schuko plugs and 120V without a plug
- Full range of accessories available below



Operating Voltage	Output	Temperature Range	Airflow	Weight
230V	2000W	+80°C to +650°C	200-550 l/min	620g

230V UK Plug	Order Code	Price Each		
		1+	5+	10+
	317-8626	140.25	130.27	120.13
230V European Schuko Plug	317-8638	135.10	125.47	115.73

Weldy Accessories

WELDY



- All accessories can be used with the 'Weldy Pro' and the 'Weldy Plus guns'



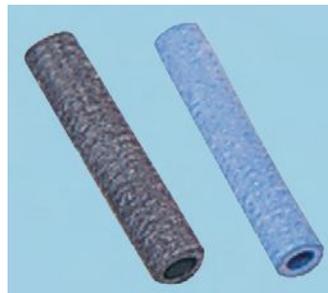
230383

	Order Code	Price Each			
		1+	5+	10+	25+
Welding nozzle	317-8651	12.60	11.47	10.22	9.25
Shrink reflector nozzle	317-8663	8.85	7.99	7.29	6.69
Glass protection nozzle	317-8675	8.85	7.99	7.29	6.69
Wide slot nozzle	317-8687	8.84	7.98	7.28	6.68
Reduction nozzle	317-8699	7.06	6.40	5.53	4.81
Overlap welding nozzle	317-8705	12.60	11.47	10.22	9.25
Pressure roller	317-8717	7.91	7.13	6.38	5.68
Solder sleeve reflector	317-8729	30.28	28.02	25.45	22.41

Cable Slewing

Binding Sleeves 'Helsyn'

HellermannTyton



Extruded from a polychloroprene rubber compound to **UL94-HB**. Suitable for binding and identification of cable harnesses using indelible markers. Approved to **BS3G198** and **DEF.STAN 59-15**, complies with **BS3858**.

Operating Temperature	Intermittent temperature	Proof Voltage	Resistivity
-65°C to 95°C	120°C	4000V	10 <sup>12</sup> Ω/cm

Maximum Cable Dia.	Internal dia.	Length	Suitable Tool Prongs
2.4	1.2	20	'SS'
3	1.5	20	'SS'
4	2	20	'SS'
6	3	25	'SS' or 'S'
10	5	25	'S'
15	7.5	25	'K'

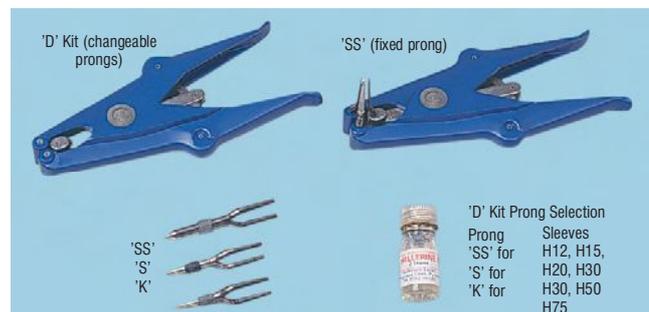
224103

100 Per Pack		Order Code	Price Each			
Max. Cable Dia.	Int Mfrs. Dia. List No.		1+	10+	25+	50+
2.4	1.2 H12X20 BLACK	116-9015	1.98	1.94	1.88	1.80
2.4	1.2 H12X20 BLUE	116-9016	1.98	1.94	1.88	1.80
3	1.5 H15X20 BLACK	116-9019	1.74	1.70	1.64	1.52
3	1.5 H15X20 BLUE	116-9020	1.73	1.69	1.61	1.53
4	2 H20X20 BLACK	116-9023	1.74	1.70	1.66	1.57
6	3 H30X25 BLACK	116-9030	1.94	1.91	1.85	1.79
10	5 H50X25 BLACK	116-9035	3.53	3.44	3.38	3.24
500 Per pack		Order Code	Price Each			
Max. Cable Dia.	Int Mfrs. Dia. List No.		1+	10+	25+	50+
2.4	1.2 H12X20 BLACK 500	116-8912	8.44	7.68	6.82	6.15
3	1.5 H15X20 BLACK 500	116-8917	7.81	7.14	6.23	5.64
4	2 H20X20 BLACK 500	116-8921	8.47	7.70	6.92	6.23
6	3 H30X25 BLACK 500	116-8925	8.80	8.01	7.22	6.51
10	5 H50X25 BLACK 500	116-8930	15.70	14.29	13.66	13.03
15	7.5 H75X25 BLACK 500	116-8932	23.98	21.73	20.19	18.27

Fitting Tools For Binding Sleeves

HellermannTyton

Fixed Prong and 'D' Kit



'D' Kit Prong Selection	Sleeves
'SS' for	H12, H15,
'S' for	H20, H30
'K' for	H30, H50, H75

**Cable Sleeving - continued**

**Fitting Tools For Binding Sleeves - continued**

**Fixed Prong and 'D' Kit - continued**

Two robustly constructed sleeve fitting tools, the 'SS' fixed prong tool is suitable for sleeves of an inside diameter up to 3.0mm, the tool with interchangeable prongs will cover all the sleeve ranges in the chart above. The 'D' kit is supplied with three sets of prongs, bottle of lubricant, three prong holding nuts, and a prong locator block which is recommended to be used when tightening the holding nuts.

224104

Mfrs. List No.	Order Code	1+	5+	10+
SS	303-150	20.98	19.02	16.89
D KIT	151-080	44.94	40.92	36.37

**Lubricant**



Recommended when fitting sleeves with the 'SS' and 147-754 tools. It is a non-conductor and can be used with all types of rubber and PVC parts. Supplied in a 10oz (284ml) bottle.

**HellermannTyton**

224105

Order Code	1+	4+	8+
101-619	3.55	3.22	2.89

**Pro-Power PVC Insulation Sleeving**



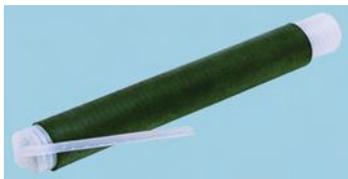
Lead free flexible PVC insulation sleeving

- Operating Temp. -40°C to 105°C
- Wall thickness 0.5mm
- Dielectric strength 15KV / mm
- Supplied in a 100m coiled bundle

417997.435051

Nom. Bore Dia.	Colour	Order Code	1+	3+	10+
1 mm	Black	105-7925	5.77	5.44	5.04
1 mm	Red	105-7926	5.77	5.44	5.04
1 mm	Green / Yellow	105-7927	5.39	5.07	4.72
2 mm	Black	105-7928	5.39	5.07	4.72
2 mm	Brown	105-7929	5.39	5.07	4.72
2 mm	Blue	105-7930	5.39	5.07	4.72
2 mm	Grey	105-7931	5.39	5.07	4.72
2 mm	Red	105-7932	5.39	5.07	4.72
3 mm	Green / Yellow	105-7933	6.27	5.87	5.12
3 mm	Black	105-7934	6.27	5.87	5.12
3 mm	Brown	105-7936	6.27	5.87	5.12
3 mm	Blue	105-7937	6.28	5.88	5.13
3 mm	Grey	105-7938	6.28	5.88	5.13
3 mm	Red	105-7939	6.58	6.16	5.37
4 mm	Green / Yellow	105-7940	7.08	6.74	6.33
4 mm	Black	105-7941	7.48	7.12	6.68
4 mm	Brown	105-7942	7.48	7.12	6.68
4 mm	Blue	105-7943	7.48	7.12	6.68
4 mm	Grey	105-7944	7.48	7.12	6.68
4 mm	Red	105-7945	7.48	7.12	6.68
6 mm	Green / Yellow	105-7946	12.12	11.68	11.14
6 mm	Black	105-7948	12.12	11.68	11.14
6 mm	Blue	105-7950	12.12	11.68	11.14
6 mm	Grey	105-7951	10.91	10.51	10.03
6 mm	Red	105-7953	12.12	11.68	11.14
7 mm	Black	105-7954	21.01	20.06	19.06
7 mm	Red	105-7955	21.01	20.06	19.06
8 mm	Black	105-7956	19.50	19.01	17.77
8 mm	Red	105-7957	19.50	19.01	17.77
10 mm	Black	105-7961	19.40	19.13	18.84
10 mm	Red	105-7962	19.35	18.80	18.37

**Coldshrink Pre-Stretched EPDM Rubber Tubes & End Caps**



These Cold Shrink Connector Insulators are a series of open-ended, tubular rubber sleeves and end caps. Which are factory expanded and assembled onto a removable core. They are supplied in a pre-stretched condition, the core is then removed after the tube or cap has been placed over the connection and forms a waterproof seal. The tubes and end caps

will cover a range of 1000V cables, copper and aluminium conductors.

**Features:**

- Simple Installation
- Suitable for a wide range of cable sizes
- No torches or heat required
- Good thermal stability
- Tight sealing, resistant to ageing/fungus/acids/alkalis/ozone/UV
- Tough rubber to withstand rough back filling
- Excellent wet electrical properties

**Applications:**

- Primary electrical insulation for insulated wire & cable splices to 1000V
- Burial or Submersible
- For indoor, outdoor or overhead use
- Physical protection & moisture sealing
- Insulation of secondary splices copper or aluminium conductors
- Dig-in repairs
- Sheath repairs
- Insulation of inline conductor transition connectors

Mfrs. List No.	Minimum Diameter (mm)	Maximum Diameter (mm)	Length (mm)	Order Code
8423-6	7.8	14.3	152	126-6863
8424-8	2.5	9.9	203	126-6864
8425-8	10.2	20.8	203	126-6865
8428-6	24.0	49.3	152	126-6870
8428-12	24.0	49.3	305	126-6872
8428-24	24.0	49.3	609	126-6873
8429-6	32.2	67.8	152	126-6874
8429-12	32.2	67.8	305	126-6875
8429-24	32.2	67.8	609.6	126-6876
8430-9	42.6	93.7	229	126-6877
8430-18	42.6	93.7	457	126-6878
8430-24	42.6	93.7	609.6	126-6879
EC-1	11.6	20.9	-	160-4555
EC-2	15.9	30.1	-	160-4556
EC-3	26	49.2	-	160-4558
EC-4	45.5	84.3	-	160-4559

449429

Mfrs. List No.	Order Code	1+	10+	25+	50+
<b>Sleeving</b>					
8423-6	126-6863	13.51	10.91	10.11	9.36
8424-8	126-6864	17.05	15.17	13.95	12.81
8425-8	126-6865	16.48	15.08	9.81	9.56
8428-6	126-6870	19.29	15.59	14.43	13.39
8428-12	126-6872	42.93	38.14	29.20	22.36
8428-24	126-6873	73.24	66.50	61.52	57.14
8429-6	126-6874	21.07	17.03	15.75	14.62
8429-12	126-6875	41.98	33.90	31.36	29.12
8429-24	126-6876	56.35	51.17	47.32	43.95
8430-9	126-6877	43.62	35.23	32.57	30.25
8430-18	126-6878	66.93	55.83	51.65	47.97
8430-24	126-6879	80.56	73.15	67.68	62.84
<b>End Caps</b>					
EC-1	NEW 160-4555	5.57	5.23	4.92	4.62
EC-2	NEW 160-4556	6.81	6.40	6.01	5.65
EC-3	NEW 160-4558	10.22	9.60	9.03	8.48
EC-4	NEW 160-4559	13.22	12.42	11.69	10.97

**PTFE Sleeving**



PTFE sleeving has excellent insulation properties with the benefit of resisting melting from soldering irons when making terminations. It can be used in areas of high temperature for covering wires, connectors, components etc. It is resistant to virtually all corrosive chemicals.

Operating temperature -65°C to +250°C  
Dielectric strength 35kV/mm min. Colour Natural

208095

5m Coil				Price Per Coil			
Nom. Bore Dia.	AWG	Wall Thickness	Order Code	1+	5+	10+	25+
0.71	22	0.25	119-1042	1.83	1.62	1.44	1.41
0.86	20	0.3	119-1043	1.98	1.88	1.65	1.61
1.07	18	0.3	119-1045	2.06	1.96	1.89	1.86
1.35	16	0.3	119-1046	2.43	2.31	2.17	2.13
1.50	15	0.3	119-1047	3.39	3.22	3.02	2.75
1.93	13	0.3	119-1048	3.09	2.99	2.85	2.79
2.69	10	0.3	119-1049	5.18	4.93	4.61	4.21
3.00	9	0.38	119-1050	5.65	5.52	5.36	5.24

**Multi-Purpose PVC Tubing**



**Applications:**

- Flexible Wire Protection
- Resistance to Heat, Oil and Abrasion
- Ground Strap Protection

**Characteristics:**

- Operating Temperature: -55°C to 105°C
- Supplied in 30.5m Lengths

Nominal Inside Diameter (mm)	Reel Length (m)	Nominal Wall Thickness (mm)	Order Code
1.68	30.5	0.41	130-2780
2.41	30.5	0.41	130-2781
3.38	30.5	0.50	130-2782
4.22	30.5	0.50	130-2783
5.28	30.5	0.50	130-2785
5.94	30.5	0.50	130-2786
7.47	30.5	0.50	130-2787
9.52	30.5	0.63	130-2788
12.70	30.5	0.63	130-2789
19.05	15.2	0.88	130-2790

450528

Alpha Wire Part No.	Order Code	1+	5+	10+	25+
PVC-105-14	130-2780	8.18	7.44	6.98	6.32
PVC-105-11	130-2781	9.33	8.48	7.96	7.20
PVC-105-8	130-2782	9.56	8.69	8.17	7.39
PVC-105-6	130-2783	10.38	9.44	8.85	8.01
PVC-105-4	130-2785	13.31	12.11	11.39	10.31
PVC-105-3	130-2786	14.09	12.81	12.04	10.88
PVC-105-1	130-2787	15.55	14.13	13.27	12.01
PVC-105-3/8	130-2788	24.21	22.01	20.68	18.69
PVC-105-1/2A	130-2789	22.65	20.59	19.36	17.50
PVC-105-3/4	130-2790	28.06	25.52	23.97	21.68

Teflon Tubing



Applications:

- Excellent Heat and Chemical Resistance
- Superior Dielectric Strength
- Wire Harnesses
- High Temperature Component Covering

Characteristics:

- Operating Temperature: -65°C to 260°C
- Supplied in 30.5m Lengths

Nominal Inside Diameter (mm)	Nominal Wall Thickness (mm)	Order Code	Nominal Inside Diameter (mm)	Nominal Wall Thickness (mm)	Order Code
0.71	0.30	130-2800	1.93	0.41	130-2806
0.86	0.41	130-2801	2.41	0.41	130-2807
1.07	0.41	130-2803	3.38	0.50	130-2808
1.19	0.41	130-2804	3.76	0.50	130-2809
1.68	0.41	130-2805			

450530

Mftrs. List No.	Order Code	1+	5+	10+	25+
TFT-250-22	130-2800	24.98	22.72	21.36	19.31
TFT-250-20	130-2801	34.36	31.24	29.36	26.55
TFT-250-18	130-2803	40.30	36.64	34.44	31.14
TFT-250-17	130-2804	34.90	31.73	29.83	26.97
TFT-250-14	130-2805	52.55	47.78	44.90	40.61
TFT-250-13	130-2806	58.25	52.96	49.77	45.02
TFT-250-11	130-2807	70.01	63.65	59.82	54.09
TFT-250-8	130-2808	115.34	104.86	98.56	89.12
TFT-250-7	130-2809	124.36	113.04	106.26	96.10

Uncoated Fibreglass Slewing



Extremely flexible, abrasion resistant slewing, ideal for applications necessitating operation up to 648°C (1200°F). Heat treated to remove all organic matter. Compatible with all insulation and conductor types.

Applications:

- Extreme Flexibility
- Extreme Heat Environments
- Component Covering

Characteristics:

- Operating Temperature: -60°C to 648°C
- Supplied in 30.5m Lengths

450529

Mftrs. List No.	Nominal Diameter (mm)	Order Code	1+	5+	10+	25+
PIF-240-18	1.07	130-2792	12.22	11.11	10.46	9.46
PIF-240-9	3.00	130-2793	16.16	14.71	13.81	12.50
PIF-240-2	6.68	130-2794	31.28	28.44	26.73	24.17
PIF-240-0	8.38	130-2795	41.17	37.44	35.19	31.81
PIF-240-3/8	9.52	130-2797	52.88	48.08	45.19	40.87
PIF-240-7/16	11.12	130-2798	69.65	63.32	59.52	53.82
PIF-240-1/2A	12.70	130-2799	90.71	82.46	77.51	70.09

Helaglass Slewing

HellermannTyton



Helaglass is a glass fibre braid lightly impregnated with silicone. Designed to be used for the insulation of wires in heating elements and other domestic appliances subject to high temperatures. This flexible glass-fibre braided slewing is impregnated with silicone and is especially suited for thermal protection in lighting applications.



- Good resistance to chemical atmospheres
- Good flexibility
- Fireproof

Material: Glass fibre with silicone  
 Colour: White  
 Operating Temperature: -60°C to +250°C Continuous, (peaks of +450°C)  
 Flammability: Self-extinguishing

526407

25m Coil Mftrs. List No.	Dia. (mm)	Order Code	1+	10+	25+	50+
GSS1 WHITE	1	167-4264	4.19	4.07	3.95	3.83
GSS1.5 WHITE	1.5	167-4265	4.47	4.33	4.20	4.08
GSS2 WHITE	2	167-4266	5.02	4.87	4.73	4.59
GSS2.5 WHITE	2.5	167-4267	5.92	5.75	5.57	5.41
GSS3 WHITE	3	167-4268	7.43	7.21	6.99	6.78
GSS4	4	167-4269	8.15	7.91	7.67	7.44
GSS5	5	167-4270	10.50	10.18	9.88	9.58
GSS6	6	167-4271	12.95	12.57	12.19	11.83
GSS7	7	167-4272	14.07	13.64	13.24	12.84
GSS8	8	167-4273	16.86	16.35	15.86	15.39
GSS10	10	167-4275	18.98	18.41	17.86	17.33

Silicone Varnished Glass Slewing



High temperature resistant, silicone impregnated glass fibre slewing ideal for protecting against radial heat. Applications include lighting, domestic appliances, electrical motors and general wiring harnesses. Supplied in 5m cut lengths.

Construction: Varnished Glass  
 Maximum Short Term Temperature: 450°C (Natural), 250°C (Black)  
 Standards Applicable: NEMA VS-1: Grade C2  
 ASTM D-372: Type 4

Electric Strength @ 20°C: IEC 684-2: 0.8kV for 1 minute  
 ASTM D350: 1.5kV

Flammability: Non-ignitable

448541.255202

Bore Size	Order Code	1+	Price/Length	3+
<b>Natural</b>				
2.0mm	124-2831	3.23		2.96
4.0mm	124-2832	3.63		3.46
6.0mm	124-2833	5.14		4.56
8.0mm	124-2834	6.00		5.67
<b>Black</b>				
2.0mm	124-2825	4.40		4.24
4.0mm	124-2826	7.00		6.57
6.0mm	124-2827	5.70		5.44
8.0mm	124-2828	9.02		8.77

2.5kV Acrylic Coated Glass Slewing



High temperature resistant, 2.5kV acrylic coated glass fibre slewing, which has good electrical and mechanical strength. Applications include lighting, domestic appliances, electrical motors and general wiring harnesses.

Supplied in 5m cut lengths.

Construction: Braided Glass  
 Thermal Classification: Class F 155°C  
 Max. Short Term Temp.: 200°C

Standard Applicable: IEC: 684-3-404  
 NEMA VS-1: Type6 – Grade C1

Electric Strength @ 20°C: IEC: 2.5kV for 1 minute  
 NEMA VS-1: Grade C1 2.5kV

450728.255199

Bore Size	Order Code	1+	Price/Length	5+
<b>Black</b>				
4mm	116-9770	4.73		4.72
6mm	116-9771	5.01		4.72
8mm	116-9767	6.43		6.18
<b>Yellow</b>				
2mm	116-9768	2.45		2.13
4mm	116-9772	4.73		4.72
6mm	116-9773	3.93		3.70

Over 480,000 products online



## Cable Markers

### Snap-On Cable Markers



Snap-On Cable Markers allow for the marking of in-situ wiring or cables after termination. Markers are easily and quickly applied using the built-in applicator. The material used to produce the markers is very elastic which allows them to grip the wire and remain in place once applied.

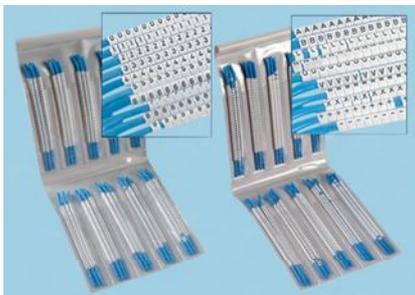
- Chevron cut ensures legends remain aligned
- Excellent Chemical Resistance
- Snap On marker for terminated cables
- Each applicator contains 30 markers
- Colour coding enables identification when mark is obscured
- Available in 4 sizes
- Manufactured using high quality copolymer
- Maximum Temperature 125°C
- 5.80mm - 8.50mm sold in packs of 50, Applicator tool sold separately

Legend	Colour	Suitable Cable Dia. 2.6-3.5mm	Order Code	Suitable Cable Dia. 3.3-4.5mm	Order Code	Suitable Cable Dia. 4.5-6.0mm	Order Code	Suitable Cable Dia. 5.8-8.5mm	Order Code
0	White on Black	782-4637	782-5234	782-6079	782-6460				
1	White on Brown	782-4645	782-5242	782-6087	782-6478				
2	Black on Red	782-4653	782-5250	782-6095	782-6486				
3	Black on Orange	782-4661	782-5269	782-6109	782-6494				
4	Black on Yellow	782-4670	782-5277	782-6117	782-6508				
5	Black on Green	782-4688	782-5293	782-6125	799-8422				
6	Black on Blue	782-4696	782-5307	782-6133	799-8430				
7	Black on Violet	782-4700	782-5315	782-6141	799-8449				
8	Black on Grey	782-4718	782-5323	782-6150	799-8457				
0	Black on White	782-4726	782-5331	782-6168	799-8465				
1	Black on White	782-4823	782-5340	782-6176	799-8473				
2	Black on White	782-4831	782-5358	782-6184	799-8481				
3	Black on White	782-4840	782-5366	782-6192	799-8490				
4	Black on White	782-4858	782-5374	782-6206	799-8503				
5	Black on White	782-4866	782-5382	782-6214	799-8516				
6	Black on White	782-4874	782-5390	782-6222	779-8164				
7	Black on White	782-4882	782-5404	782-6230	779-8172				
8	Black on White	782-4890	782-5412	782-6249	779-8180				
9	Black on White	782-4904	782-5420	782-6257	779-8199				
A	Black on White	782-4912	782-5439	782-6265	779-8202				
B	Black on White	782-4920	782-5447	782-6273	779-8210				
C	Black on White	782-4939	782-5455	782-6281	779-8229				
E	Black on White	782-4947	782-5463	-	779-8237				
L	Black on White	782-4955	782-5471	782-6303	779-8245				
N	Black on White	782-4963	782-5480	782-6311	779-8253				
R	Black on White	782-4971	782-5498	782-6320	779-8261				
S	Black on White	782-4980	782-5501	782-6338	779-8270				
T	Black on White	782-4998	782-5510	782-6346	779-8288				
+	Black on White	782-5005	782-5528	782-6354	779-8296				
-	Black on White	782-5013	782-5536	782-6362	779-8300				
⊕	Black on White	782-5021	782-5544	782-6370	779-8318				

361199

Description	Order Code	Price Per Pack	
		1+	10+
2.6-3.5mm	All Order Codes●	0.50	0.43
3.3-4.5mm	All Order Codes●	0.57	0.50
4.5-6.0mm	All Order Codes●	0.60	0.56
5.8-8.5mm	All Order Codes●	4.18	3.88
<b>Applicator Tool</b>		<b>Price Each</b>	
5.8-8.5mm	779-8326	3.15	2.83

### Snap-On Marker Kits



Snap-on markers available in a convenient wallet with 10 pockets, each holding 3 applicators (90 markers), and total 900 markers in white

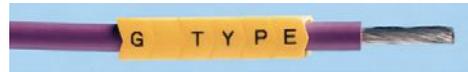
- All labels are black text on a white background
- Range B contains A, B, L, N, U, V, W, X, +, -
- Range A contains 0-9
- Range B contains A, B, L, N, U, V, W, X, +, -

Order Code	Range	Min. Cable Diameter	Max. Cable Diameter	Order Code	Range	Min. Cable Diameter	Max. Cable Diameter
114-6682	A	1.9mm	2.65mm	114-6686	A	2.6mm	3.5mm
114-6684	B	1.9mm	2.65mm	114-6687	B	3.25mm	4.5mm
114-6685	A	2.6mm	3.5mm	114-6688	B	3.25mm	4.5mm

446603.435244

Range	Cable Diameter	Order Code	Price/Pack	
			1+	5+
A	1.9mm - 2.65mm	114-6682●	22.60	21.60
B	1.9mm - 2.65mm	114-6684●	22.60	21.60
A	2.6mm - 3.5mm	114-6685●	22.60	21.60
B	2.6mm - 3.5mm	114-6686●	22.60	21.60
A	3.25mm - 4.5mm	114-6687●	26.44	25.26
B	3.25mm - 4.5mm	114-6688●	26.44	25.26

### G-Type™ Cable Markers



G-Type™ Cable Markers are manufactured using a Zero Halogen, cadmium and silicone free material. The gusseted design means each size covers a range of cable diameters and the chevron cut ensures the legend remains aligned.

- Zero Halogen, UL94 V0 gusseted marker
- Three sizes available
- Easy application
- Interlocking for alignment of legend
- Manufactured from thermoplastic compound
- Markers yellow body with black legend
- Maximum Temperature 70°C
- Supplied in packs of 100

Legend	Suitable Cable Dia. 1.4-2.5mm	Order Code	Suitable Cable Dia. 2.0-3.5mm	Order Code	Suitable Cable Dia. 3.0-6.0mm	Order Code	Legend	Suitable Cable Dia. 1.4-2.5mm	Order Code	Suitable Cable Dia. 2.0-3.5mm	Order Code	Suitable Cable Dia. 3.0-6.0mm	Order Code
0	780-0100	780-1343	780-3168	K	780-0940	780-2374	780-3532						
1	780-0126	780-1351	780-3176	L	780-0959	780-2382	780-3540						
2	780-0134	780-1360	780-3184	M	780-0967	780-2390	780-3559						
3	780-0142	780-1378	780-3192	N	780-0975	780-2404	780-3567						
4	780-0150	780-1386	780-3206	O	780-0983	780-2633	780-4466						
5	780-0169	780-1394	780-3222	P	780-0991	780-2650	780-4474						
6	780-0177	780-1408	780-3230	Q	780-1009	780-2668	780-4482						
7	780-0185	780-1416	780-3249	R	780-1017	780-2676	780-4490						
8	780-0193	780-1424	780-3257	S	780-1025	780-2684	780-4504						
9	780-0207	780-1432	780-3265	T	780-1033	780-2706	780-4512						
A	780-0843	780-2269	780-3435	U	780-1041	780-2714	780-4520						
B	780-0851	780-2285	780-3443	V	780-1050	780-2722	780-4539						
C	780-0860	780-2293	780-3451	W	780-1068	-	780-4547						
D	780-0878	780-2307	780-3460	X	780-1076	780-2749	780-4555						
E	780-0886	780-2315	780-3478	Y	780-1084	780-2757	780-4563						
F	780-0894	780-2323	780-3486	Z	780-1092	780-2765	780-4571						
G	780-0908	780-2331	780-3494	+	780-1106	780-2773	780-4580						
H	780-0916	780-2340	780-3508	-	780-1114	780-2781	780-4598						
I	780-0924	780-2358	780-3516	⊕	780-1122	780-2790	780-4601						
J	780-0932	780-2366	780-3524										

361246

Description	Order Code	Price Per Pack	
		1+	10+
1.4-2.5mm	All Order Codes●	1.28	1.16
2.0-3.5mm	All Order Codes●	1.28	1.16
3.0-6.0mm	All Order Codes●	4.98	4.75

### K-Type™ Cable Markers



- Elliptical profile which allows a wide cable diameter range from 4mm to 10mm
- Large characters for easy reading
- Colour coding enables identification when mark is obscured
- Marks available: A to Z, 1 to 9, +, -, /, Earth and Full Stop
- Supplied on Reel of 500 markers
- Carrier Strips applicator tools available for marking outer cables, conduit or pipes before or after termination
- Manufactured from Plasticised PVC
- Yellow Background with Black legend
- Maximum Temperature 70°C

Legend	Order Code						
0	127-2273	A	127-2284	K	127-2295	U	127-2307
1	127-2274	B	127-2285	L	127-2296	V	127-2308
2	127-2276	C	127-2286	M	127-2297	W	127-2309
3	127-2277	D	127-2288	N	127-2298	X	127-2310
4	127-2278	E	127-2289	O	127-2300	Y	127-2311
5	127-2279	F	127-2290	P	127-2301	Z	127-2312
6	127-2280	G	127-2291	Q	127-2302	+	127-2313
7	127-2281	H	127-2292	R	127-2303	-	127-2314
8	127-2282	I	127-2293	S	127-2304	/	127-2315
9	127-2283	J	127-2294	T	127-2306	⊕	127-2316
						.	127-2318

361196

Description	Order Code	Price Per Pack	
		1+	10+
Markers	All Order Codes●	11.55	9.57
<b>Carrier Strips</b>			
7 Digit (500pcs)	781-5492	34.70	33.07
12 Digit (500pcs)	781-5506●	49.36	45.84

**Straight Cut - 'Z' Type**



An expandable gusset cable marker manufactured in plasticised PVC. The expanding gusset allows one marker to span a wide range of diameters. Each numeric marker is colour coded and marked with the corresponding number (0-9). Alphanumeric and symbol markers are white and have the legend marked in black. Applicator tools available to fit sizes Z7, Z11 & Z13.

Maximum operating temperature 100°C, 100 Markers per pack

Legend	Colour	Z5' Size	Z7' Size	Z11' Size	Z13' Size
		Overall Cable Dia. 1.5-2.0mm	Overall Cable Dia. 2.0-3.2mm	Overall Cable Dia. 2.9-4.7mm	Overall Cable Dia. 3.4-5.7mm
0	Black	141-555	141-565	141-575	780-8887
1	Brown	119-6387	119-6392	119-6395	127-2269
2	Red	141-557	141-567	141-577	780-8909
3	Orange	119-6389	119-6393	119-6396	127-2270
4	Yellow	119-6391	119-6394	119-6397	127-2271
5	Green	141-560	141-570	141-580	780-8933
6	Blue	141-561	141-571	141-581	780-8941
7	Violet	141-562	141-572	141-582	780-8950
8	Grey	141-563	141-573	141-583	127-2272
9	White	141-564	141-574	141-584	780-9476
+	White	146-604	146-607	146-610	780-9492
-	White	146-605	146-608	146-611	780-9506
≡	White	146-606	146-609	146-612	780-9514
A	White	146-613	146-639	146-659	780-9522
B	White	146-614	146-640	146-666	780-9530
C	White	146-615	146-641	146-667	780-9549
D	White	146-616	146-642	146-668	780-9557
E	White	146-617	146-643	146-669	780-9565
F	White	146-618	146-644	146-670	780-9573
G	White	146-619	146-645	146-671	780-9581
H	White	146-620	146-646	146-672	780-9590
I	White	146-621	146-647	146-673	780-9603
J	White	146-622	146-648	146-674	780-9611
K	White	146-623	146-649	146-675	780-9620
L	White	146-624	146-650	146-676	780-9638
M	White	146-625	146-651	146-677	780-9646
N	White	146-626	146-652	146-678	780-9654
O	White	146-627	146-653	146-679	780-9662
P	White	146-628	146-654	146-680	780-9670
Q	White	146-629	146-655	146-681	780-9689
R	White	146-630	146-656	148-714	780-9697
S	White	146-631	146-657	146-683	780-9700
T	White	146-632	146-658	146-684	780-9719
U	White	146-633	146-659	146-685	780-9727
V	White	146-634	146-660	146-686	780-9735
W	White	146-635	146-661	146-687	780-9743
X	White	146-636	146-662	146-688	780-9751
Y	White	146-637	146-663	146-689	780-9760
Z	White	146-638	146-664	146-690	780-9778
/	White	780-8526	780-8569	780-8623	780-9964
)	White	780-8534	780-8577	780-8631	780-9972
Blank	White	780-8542	780-8585	780-8640	780-9980
.	White	780-8550	780-8593	780-8658	780-9999

224111

Description	Order Code	Price Per Pack	
		1+	5+
	All Order Codes●	1.17	1.12
<b>Applicator Tool</b>		<b>Price Each</b>	
Z7	235-684	6.62	6.13
Z11	235-696	6.62	6.13
Z13	814-8066	7.08	6.71

**Identification Wire Marker Cards**



- Pre-printed wire markers manufactured from vinyl coated cloth material, with a permanent rubber based pressure sensitive adhesive
- Supplied on a thick easy to handle card stock with 33 wire markers per card
- Designed for basic wire marking applications for single or double digit legends
- Label: 6.40mm (W) x 38.10mm (H)
- Moderately resistant to abrasion, common solvents, cleaners, water, oil and dirt

361274

Legend	Order Code	Price Per Card	
		1+	10+
0	780-4873●	0.60	0.55
1	780-4890●	0.60	0.55
2	780-4903●	0.60	0.55
3	780-4911●	0.60	0.55
4	780-4920●	0.60	0.55
5	780-4938●	0.60	0.55
6	780-5721●	0.60	0.55

Legend	Order Code	Price Per Card	
		1+	10+
7	780-5730●	0.54	0.49
8	780-5748●	0.60	0.55
9	780-5756●	0.60	0.55
1 to 33	780-5764●	0.46	0.42
A to Z	780-5772●	0.60	0.55

**Straight Cut 'Oval' Type - 5mm**



- Straight cut 5mm wide markers
- Yellow plasticised PVC with black legend
- Can be used as conventional wire markers or alternatively on carrier strips
- 65mm carrier strip holds 9 markers and 100mm strip holds 16 markers
- Secured at either end using cable ties or lacing cord

Wire Diameter 3.5-6.0mm, Operating Temperature -65 to 70°C

Legend	Order Code	Legend	Order Code	Legend	Order Code
0	126-9068	A	126-9084	N	126-9098
1	126-9071	B	126-9085	O	126-9099
2	126-9072	C	126-9086	P	126-9101
3	126-9073	D	126-9087	Q	126-9102
4	126-9074	E	126-9088	R	126-9103
5	126-9075	F	126-9089	S	126-9104
6	126-9076	G	126-9090	T	126-9105
7	126-9077	H	126-9091	U	126-9106
8	126-9078	I	126-9092	V	126-9107
9	126-9079	J	126-9093	W	126-9108
+	126-9080	K	126-9095	X	126-9109
-	126-9081	L	126-9096	Y	126-9110
/	126-9083	M	126-9097	Z	126-9111
≡	126-9115				

208226

Markers	Pack Qty.	Order Code	Price Per Pack			
			1+	5+	10+	25+
		All Order Codes●	6.57	6.28	5.80	5.36
65mm Carrierstrip	100	126-9113●	3.86	3.73	3.53	3.08
100mm Carrierstrip	100	126-9114●	5.02	4.81	4.57	3.94

**Chevron Cut Helagrip Mk2 Kits**



- Convenient 18 compartment storage box
- Three size options:  
0-0 for cable dia. 1.27 - 2.0mm  
1-3 for cable dia. 1.3 - 2.8mm  
2-5 for cable dia. 2.25 - 5.0mm
- Kit contains 4500 markers, 250 each of following:  
0-9 inclusive (coloured), R, S, T, +, -, L, N, ≡ (white)
- Contents individually refillable from standard Helagrip Mk2 range

H=45, W=265, D=170

208265

Size	Cable Diameter	Order Code	Price Each		
			1+	10+	25+
0-0	1.27mm-2mm	120-1699●	44.76	40.72	36.16
1-3	1.3mm-2.8mm	120-1701●	44.76	40.72	36.16
2-5	2.25mm-5mm	120-1702●	44.76	40.72	36.16

**Post Termination Markers**



The easy to use WIC clip on cable marker is ideal for both pre and post termination marking. WIC's (Wire Identification Clip) uniquely strong gripping profile ensures that the marker stays in place even under the most arduous of conditions.



## Cable Markers - continued

### Post Termination Markers - continued

- Easy to apply with or without the applicator tool
- Only 3 sizes needed to cover cables from 1.5mm-6mm
- Each WIC marker interlocks with the next to form perfectly aligned multi-mark codes
- Unique applicator tool (sold separately) makes application easy especially in confined spaces
- Markers are supplied loaded into a handy pocket sized dispenser
- Manufactured from high grade Nylon 66 for excellent mechanical strength and chemical resistance

Order Code	Cable size range	Packaging	Colour Codes	Kit Contents
872-1645	0.5mm - 1.5mm	10 strips of 20 marks	Multi Colour	0,1,2,3,4,5,6,7,8,9
872-1653	1.5mm - 2.5mm	10 strips of 20 marks	Multi Colour	0,1,2,3,4,5,6,7,8,9
872-1661	4.0mm - 6.0mm	10 strips of 10 marks	Multi Colour	0,1,2,3,4,5,6,7,8,9
872-1670	0.5mm - 1.5mm	10 strips of 20 marks	Black on Yellow	A,E,L,N,R,S,T,+,-,Earth
872-1688	1.5mm - 2.5mm	10 strips of 20 marks	Black on Yellow	A,E,L,N,R,S,T,+,-,Earth
872-1696	4.0mm - 6.0mm	10 strips of 10 marks	Black on Yellow	A,E,L,N,R,S,T,+,-,Earth

Description	Order Code	Price Each	
		1+	3+
<b>Multi Coloured kits</b>			
0.5mm-1.5mm	<b>872-1645</b> ●	3.05	2.82
1.5mm-2.5mm	<b>872-1653</b> ●	3.16	2.99
4.0mm-6.0mm	<b>872-1661</b> ●	3.26	3.11
<b>Black on Yellow kits</b>			
0.5mm-1.5mm	<b>872-1670</b> ●	3.05	2.85
1.5mm-2.5mm	<b>872-1688</b> ●	3.16	2.90
4.0mm-6.0mm	<b>872-1696</b> ●	3.26	2.90
<b>Accessories</b>			
Applicator tool for all sizes	<b>872-1637</b>	1.89	1.78

## Chevron Cut - Helagrip Mk 2



A range of right-facing chevron cut soft PVC cable markers available in either **CEGB** approved black on white or colour coded versions. Supplied semi-severed on self-grip dispenser reels of 1000. Flame retardant to **UL94V-0**.

Operating temperature -65°C to +135°C (+135°C peak, 200 hrs. max.)

Legend	Colour	Size 1-3 Cable Dia. 1.3-2.8		Size 2-5 Cable Dia. 2.25-5.0	
		Order Code	Price	Order Code	Price
0	Black	120-1734		120-1766	
1	Brown	120-1735		120-1767	
2	Red	120-1737		120-1768	
3	Orange	120-1738		120-1769	
4	Yellow	120-1739		120-1770	
5	Green	120-1740		120-1771	
6	Blue	120-1741		120-1772	
7	Violet	120-1742		120-1774	
8	Grey	120-1743		120-1775	
9	White	120-1744		120-1776	
0	White	120-1745		120-1777	
1	White	120-1746		120-1778	
2	White	120-1747		120-1779	
3	White	120-1749		120-1780	
4	White	120-1751		120-1781	
5	White	120-1752		120-1782	
6	White	120-1753		120-1783	
7	White	120-1754		120-1784	
8	White	120-1755		120-1786	
9	White	120-1756		120-1787	
L	White	120-1757		120-1788	
N	White	120-1758		120-1789	
R	White	120-1759		120-1790	
S	White	120-1760		120-1791	
T	White	120-1762		120-1792	
+	White	120-1763		120-1793	
-	White	120-1764		120-1794	
⊕	White	120-1765		120-1795	

### Chevron Cut Helagrip Mk 2 Cassettes



H=15, W=90, D=77

- Pocket sized
- Quick efficient cable identification
- Two size options: SIZE 1-3 for cable dia. 1.3-2.8mm, SIZE 2-5 for cable dia. 2.25-5.0mm
- Teflon coated applicator tool, stores in centre of cassette
- Refillable with Helagrip Mk2 Cable Markers
- Both sizes contain: 25 of A, E, L, N, R, S, T, +, -, ⊕ (white) 25 of 0-9 inclusive (coloured)
- Size 1-3 also has an extra 25 of 0, 1, 2, 3

Size	Cable Diameter	Order Code	Price Each		
			1+	10+	25+
1-3	1.3 - 2.8mm	<b>120-1800</b> ●	17.31	16.12	15.58
2-5	2.25 - 5mm	<b>120-1802</b> ●	16.90	15.74	15.22

### Chevron Cut Helagrip Mk 2



#### Bench Dispenser Kit



- Convenient 15-compartment dispenser rack
- Ideal for workbench applications
- Marker size 2-5 for cable dia. 2.25-5.0mm
- Kit contains 15000 White markers, 1000 each of the following; 0-9 inclusive, R, Y, B, L and N
- Contents individually refillable from standard Helagrip Mk2 range
- Dispenser rack available separately

H=225 W=255 D=170

	Order Code	Price Each		
		1+	10+	25+
Dispenser Kit	<b>120-1799</b> ●	156.21	145.63	130.43
Empty Dispenser Rack	<b>305-3593</b>	15.57	14.80	14.33

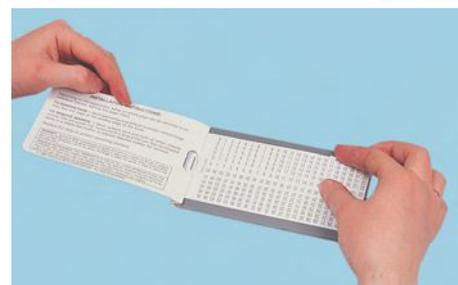
### 'Thimble Jig' Applicator Tools



- Designed for use with Helagrip Mk2 markers
- Teflon coated for easy application
- Two size options: 1-3 and 2-5

Size	Cable Diameter	Order Code	Price Each		
			1+	10+	25+
1-3	1.3-2.8mm	<b>135-616</b>	6.60	6.18	5.56
2-5	2.25-5mm	<b>135-628</b>	7.30	6.81	6.17

### Coded Tape



Coded tape markers packaged in a pocket-sized book format. Manufactured in self-adhesive Vari-Temp tape which exhibits excellent performance and durability over wide temperatures. They are also resistant to moisture, fungus, oil and abrasion.

Each page of markers is detachable. Operating temperature -18°C to +137°C.

Mfrs. List No.	No. of Markers
WM09	40 each 0 to 9
WM045	10 each T <sub>1</sub> , T <sub>2</sub> , T <sub>3</sub> , L <sub>1</sub> , L <sub>2</sub> , L <sub>3</sub>
WM4690	10 each 0 to 45
WMAZ	10 each 46-90
WMA33	10 each A to Z, +, -, 0 to 15
WMA90	10 each 1 to 33, A,B,C, +, -, T <sub>1</sub> , T <sub>2</sub> , T <sub>3</sub> , L <sub>1</sub> , L <sub>2</sub> , L <sub>3</sub>
WM123	150 each 1,2,3
WMABC	150 each A, B, C

224113

Mfrs. List No.	Order Code	Price Per Book		
		1+	3+	10+
WM09	303-185	8.32	8.15	6.42
WM045	303-197	8.32	8.15	6.42
WM4690	303-203	8.32	8.15	6.42
WMAZ	303-215	8.32	8.15	6.42
WMA33	303-227	8.32	8.15	6.42
WMA90	303-239	8.32	8.15	6.42
WM123	303-240	8.32	8.15	6.42
WMABC	303-252	8.32	8.15	6.42

**Warning Tags**



- Rigid, extruded PVC
- Used to identify cables in adverse conditions
- Bound to cables using standard 200mm cable ties supplied
- Supplied in strips of 10 in easy snap out format

Pack contains: Strip of 10 labels & 20 cable ties

H=20, W=49mm

208191

10 Per Pack Legend	Mfrs. List No.	Order Code	1+
High Voltage	11017	861-431●	3.57
Mains Cable	11018	861-443●	3.57

**Cable Marking System**

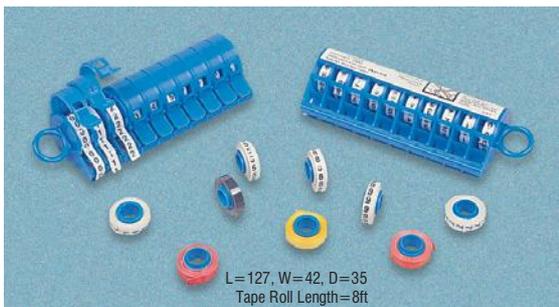


Handy cable marking dispensers with tear off mechanism. Each dispenser is filled with 10 rolls of self-adhesive vinyl cloth tape, one roll of each number 0-9 or one of 10 colours.

446616.437431

Description	Order Code	Price Each		
		1+	5+	10+
Full Dispenser (0-9)	109-6731●	19.20	17.97	
Full Dispenser (Colours)	109-6733●	19.20	17.97	

**Pan-Code® Wire Marker Dispenser**



L=127, W=42, D=35  
Tape Roll Length=8ft

Wire marker tape dispenser, manufactured in tough Blue polypropylene, holding up to ten rolls of self adhesive polyester film tape. Easy to use, simply open cover, pull out desired length of tape, close cover and press firmly on to integral cutting blade. To reload, open cover, remove empty spool and drop in new roll. Dispenser available either empty or pre-loaded with numbers 0 - 9. Replacement tapes available in a refill pack of ten (0 - 9) or individually in numbers, letters, symbols or colours.

Mfrs. List No:

(Empty dispenser) PMD = 146-4158  
(Loaded dispenser) PMD-0-9 = 146-4159  
(Refill Pack) PMDRO-9 = 146-4160

**Tape Rolls (Individual)**

Legend	Order Code	Legend	Order Code	Legend	Order Code
0	146-4161	H	146-4180	X	146-4198
1	146-4162	I	146-4181	Y	146-4199
2	146-4163	J	146-4182	Z	146-4200
3	146-4165	K	146-4183	Earth	146-4201
4	146-4166	L	146-4184	-	146-4202
5	146-4167	M	146-4185	+	146-4203
6	146-4168	N	146-4186	Black	146-4204
7	146-4169	O	146-4187	Blue	146-4205
8	146-4170	P	146-4189	Brown	146-4207
9	146-4171	Q	146-4191	Grey	146-4208
A	146-4172	R	146-4192	Green	146-4209
B	146-4173	S	146-4193	Orange	146-4210
C	146-4174	T	146-4194	Purple	146-4211
D	146-4175	U	146-4195	Red	146-4212
E	146-4177	V	146-4196	White	146-4213
F	146-4178	W	146-4197	Yellow	146-4214
G	146-4179				

224112

Description	Order Code	Price Each		
		1+	5+	10+
Empty Dispenser	146-4158●	9.07	8.29	7.30
Full Dispenser (0-9)	146-4159●	21.61	20.46	18.17
Dispenser Refill (PK10)	146-4160●	19.37	17.77	16.03
Markers	All Order Codes	2.11	1.92	1.74

**Self-Laminating Label Dispensers**



Self Laminating Label Dispensers supplied in a handy pocket sized plastic disposable dispenser.

- Each dispenser contains a roll of pre-cut Self Laminating labels for Wire, cable and pipe identification
- Each label has a white write on area for easy marking
- Special pad allows easy marking
- Marker dispenses automatically when the liner is pulled from base of unit
- On application, the mark is protected against mechanical influences by an over laminated adhesive lined transparent layer
- Temperature Range: -40°C to +120°C

Mfrs. List No.	Markers/Pack	Label Size WxH (mm)	Write-on area WxH (mm)	Wire Dia. Min/Max (mm)
WCD-318	300	19.0 x 31.8	19.0 x 7.95	2.54 - 7.62
WCD-476	150	19.0 x 47.6	19.0 x 12.7	5.08 - 10.16
WCD-762	90	19.0 x 76.2	19.0 x 19.0	5.08 - 17.78
WCD-1520	40	19.0 x 152.0	19.0 x 25.4	7.62 - 40.64
ZUB-01	Marker Pen			

419306.434947

Mfrs. List No.	Order Code	Price Per Spool		
		1+	5+	10+
WCD-318	109-6791●	10.69	9.82	9.33
WCD-476	109-6792●	10.69	9.82	9.33
WCD-762	109-6793●	10.69	9.82	9.33
WCD-1520	109-6794●	10.69	9.82	9.33
ZUB-01	109-6796●	3.25	3.07	2.70

**Write On Pocket Packs**



These pocket packs are suitable for on-the-spot labelling. Available in the most common label sizes, they can be written on using the recommended pen 109-6796

- Material - Self adhesive Vinyl-impregnated yellow fabric
- Thickness 0.15mm
- Temperature range -30°C to 80°C
- Designed to withstand exposure to oil, solvents, salts and water

## Cable Markers - continued

### Write On Pocket Packs - continued

Order Code	Border	Dimensions H x W (mm)	Labels per Pack
114-6689	With	11 x 19	440
114-6690	With	11 x 38	220
114-6691	Without	8 x 21	640
114-6692	Without	9 x 14	840

446600.435246

Dimensions H x W (mm)	Order Code	Price/Pack
		1+ 5+
11 x 19	114-6689●	8.53 8.10
11 x 38	114-6690●	8.53 8.10
8 x 21	114-6691●	7.24 6.86
9 x 14	114-6692●	7.24 6.86
Marker Pen	109-6796●	3.25 3.07

### Self Laminating Labels



These labels have a white laser printable area, which is over-laminated upon application via a clear polyester film with a permanent acrylic adhesive liner.

- Clear overlap protects legend from exposure to oil, solvents, salts and water
- Can be flagged around wire rather than wrapped
- Temperature range -30°C to 120°C

Label Height	Cable dia. Min	Cable dia. Max	Labels per Pack	Order Code
6mm	0.25mm	21.25mm	160	114-6661
8.5mm	0.25mm	27mm	88	114-6662
12.7mm	0.25mm	27mm	64	114-6663
12.7mm	0.25mm	43mm	40	114-6664
17mm	0.25mm	55mm	32	114-6665
22mm	0.25mm	55mm	24	114-6666
25.4mm	0.25mm	74mm	18	114-6667
25.4mm	0.25mm	111mm	12	114-6669

446614.435230

Cable Diameter	Labels Per Pack	Order Code	Price/Pack
			1+ 5+
0.25mm - 21.25mm	160	114-6661●	5.59 5.38
0.25mm - 27mm	88	114-6662●	4.32 4.16
0.25mm - 27mm	64	114-6663●	5.61 5.39
0.25mm - 43mm	40	114-6664●	5.59 5.38
0.25mm - 55mm	32	114-6665●	5.59 5.38
0.25mm - 55mm	24	114-6666●	5.59 5.38
0.25mm - 74mm	18	114-6667●	4.20 4.04
0.25mm - 111mm	12	114-6669●	5.59 5.38

### Cable Markers



#### Identification Tags



- Cable identification tags manufactured in Natural Nylon 66
- Can be attached to a cable or group of cables using two cable ties
- Marking can be carried out using hot foil printing or an indelible marking pen

219628

100 Per Pack	Order Code	1+	5+	10+	25+
Identification Tags	116-9004●	11.06	9.96	8.38	6.62
			Price Each		
Black Marker Pen	305-3570	4.39	4.07	3.75	3.52

Over 480,000 products online



### Protective Cable Clip, Tie-ons and Legends



These cable clips are designed for the identification of wires in rough, damp and dusty environments. The legend strip can be marked by hand or laser printer then embedded in the cable clip for all-round protection. The cable clips are fastened on using cable ties.

- All legends are white on one side, yellow on the other
- Temperature range -26°C to 130°C
- Abrasion resistant clips

	Order Code Legend	Dimensions H x W (mm)	Legends per Pack	To fit order code
	114-6670	16 x 40	60	1146674
	114-6672	6.2 x 30	240	1146675
	114-6673	6.2 x 64	120	1146676
Cable Tie Width	Order Code Clip	Dimensions H x W (mm)	Clips per Pack	To fit order code
9 mm	114-6674	44 x 21	25	1146670
6 mm	114-6675	34 x 10.5	25	1146672
5 mm	114-6676	68 x 10.5	25	1146673

446611.435456

	Dimensions H x W (mm)	Order Code	1+	5+
Legend	16 x 40	114-6670●	5.06	4.87
	6.2 x 30	114-6672●	5.06	4.87
	6.2 x 64	114-6673●	5.06	4.88
Clip	44 x 21	114-6674●	10.62	9.93
	34 x 10.5	114-6675●	5.98	5.60
	68 x 10.5	114-6676●	9.30	8.87

### Cable Marker Strap



- For identifying and coding telephone and fibre optic cable
- Replaces costly and cumbersome lead marking tags
- Lightweight and easy to install
- Can be used as wrap-around or flag marker

Colour, Legend	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Order Code
Red	387	19.1	111	101-5596
Grey	387	19.1	111	101-5597

419702/436609

Mfrs. List No.	Order Code	1+	3+
CM4S-L2	101-5596●	18.64	16.79
CM4S-L8	101-5597●	18.64	16.79

### Marker Plates



- Available in White Nylon 6.6 or Black Weather Resistant Nylon 6.6
- Install as flags, tags, or wrap-around



identification plates to clearly identify all wire harnesses

- Use with nylon marking pens for an easy and economic alternative to identify wire harnesses
- Easy feed cable tie slot
- Max. Bundle Diameter of 4.8mm
- Supplied in Packs of 100

524535

Mfrs. List No.	Colour	Length (mm)	Width (mm)	Order Code	1+	5+	10+
MP150-C	White	38.1	19	165-7342	38.81	37.65	36.52
MP150-C0	Black	38.1	19	165-7344	44.63	43.29	41.99
MP200-C	White	50.8	19	165-7346	46.22	44.83	43.49
MP200-C0	Black	50.8	19	165-7347	53.15	51.56	50.01
MP250-C	White	63.5	19	165-7348	45.36	44.00	42.68
MP250-C0	Black	63.5	19	165-7349	52.16	50.60	49.08
MP250W175-C	White	63.5	44.5	165-7350	79.37	76.99	74.68
MP350-C	White	88.9	19	165-7351	60.49	58.68	56.92
MP350-C0	Black	88.9	19	165-7352	69.56	67.47	65.45

Permanent Markers



- Fast drying, permanent ink - legible identification on nylon
- Used with marker ties, write-on labels and tags, where ordinary marking pens will not work

524543

Mfrs. List No.	Colour	Tip Type	Order Code	1+	5+	10+
PFX-0	Black	Fine	117-9865	2.97	2.91	2.83
PFX-2	Red	Fine	165-7353	44.10	42.78	41.50
PX-0	Black	Regular	165-7354	58.50	56.75	55.05
PX-2	Red	Regular	165-7356	59.10	57.33	55.61
PX-10	White	Regular	165-7357	121.50	117.86	114.32

Self-Laminating Labels



- Labels can be printed in both laser and ink jet printers
- Self-laminating adhesive labels include a colored print-on area and clear overlaminates

White self-laminating polyolefin labels

Mfrs. List No.	Length (mm)	Width (mm)	Use With	Labels Per Card	Max Cable Diameter (mm)
S100X160YAJ	40.64	25.4	LABELCORE Sleeves	48	6.35
S100X220YAJ	55.88	25.4	NWSLC-2, NWSLC-3	32	8.89
			NWSLC-7		

524521

Mfrs. List No.	Order Code	1+	5+	10+
S100X160YAJ	165-7317	3.77	3.66	3.55
S100X220YAJ	165-7319	3.03	2.94	2.85

Fibre Optic Sleeves



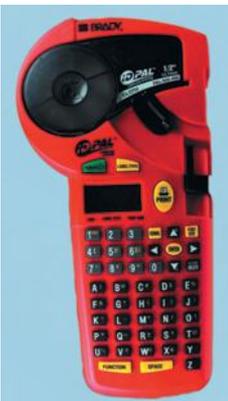
- Provides a larger labeling surface on small cables allowing legends to be clearly seen
- Sleeve is made of flexible PVC material
- Flame retardant
- Locate sleeve on straight section of cable at least 2.00" from fiber butt

Operating Temperature: -24°C to 75°C

524519

100 Per Pack Mfrs. List No.	Size (mm)	Cable Type	Order Code	1+	5+	10+
NWSLC-2Y	2	Simplex	165-7314	11.19	10.85	10.52
NWSLC-3Y	3	Simplex	165-7315	11.19	10.85	10.52
NWSLC-7Y	3	Duplex	165-7316	10.87	10.54	10.22

ID Pal™ Hand-Held Label Printer



	Label Selection/Surface Application Chart		
	Nylon Cloth	Vinyl	Polyester
Smooth/Flat	✓	✓	✓
Wire/Cable/Curved	✓	✓	✓
Textured	✓	✓	✓
Highly Textured	✓		

A portable label printer which is fast, efficient and easy to use, with labels that stick to almost any surface.

- Ideal for identifying wires, cables, racking and components
- Pre-programmed electrical and datacom symbols
- Quick load drop-in cartridge, built-in cutter and automatic shut-off
- Easy peel labels designed to adhere to any flat or curved surface
- Produces consecutively numbered labels to save time
- 16 character, 2 line display
- Choose from 5 font sizes and 3 label widths
- Accepts 9.5mm, 12.7mm and 19mm tapes
- Produce up to 3500 between battery changes
- Powered by 6 x AA batteries (not supplied) or optional AC adaptor

248519

Description	Order Code	1+	5+
Hand Held Label Printer	433-1151	175.95	161.54
240V AC Adaptor	433-1163	43.73	40.16
ID PAL Hard Carrycase	433-1175	29.94	27.43

Labelling Tapes for ID Pal™ Label Printer



248565

ID Pal Tapes	Tape Length	Order Code	1+	5+
9.5mm Nylon Cloth Tape				
Black on White	5.8m	433-1199	14.96	13.74
9.5mm Vinyl Tape				
Black on White	6.4m	433-1205	14.06	12.92
12.7mm Nylon Cloth Tape				
Black on White	5.8m	433-1280	17.61	16.16
12.7mm Vinyl Tape				
Black on White	6.4m	433-1291	15.85	14.55
Black on Yellow	6.4m	433-1308	15.85	14.55
12.7mm Polyester Tape				
Black on Clear	6.4m	433-1357	15.85	14.55
19mm Nylon Cloth Tape				
Black on White	5.8m	433-1370	20.24	18.57
19mm Vinyl Tape				
Black on White	6.4m	433-1382	18.47	16.98
Black on Yellow	6.4m	433-1394	18.47	16.98

Thermal Transfer Label/Sleeve Printer



TLS2200



Printer

- Durable handheld thermal transfer printer
- Designed to print on a variety of labels for on site cable/wire marking and general identification
- Thermal transfer technology gives an instantly dry print with no smudging and is faster than dot-matrix
- Printer includes a hard-case, battery, battery charger, PC connection cable, cleaning strip, sample ribbon and labels
- Prints barcodes (Code 39) and serialises both alpha and numeric characters

- Battery will print up to 500 labels between charges
- Each label roll has a built in "smart cell" which automatically sets the printer for that type of label, saving time and complicated settings
- Ribbons are housed in an easy to load cartridge
- Please note it is important to select the correct ribbon for the label in order to achieve optimum print clarity and durability

Self laminating wrap around cable/wire marking labels

- White vinyl printable area
- Clear over laminating tail ensures label will stay on cable and gives extra protection to the legend

Labels can be applied after cable/wire termination

Heat shrinkable sleeves (3:1 Shrink ratio)

- Heat shrinkable polyolefin sleeves which can be shrunk to fit the required diameter or left unshrunk
- Easy to squeeze open and apply once printed
- Available in white and yellow

233697

	Order Code	1+	5+
TLS2200 Printer	387-9495	710.13	660.73
Spare battery charger	387-9513	39.88	37.99
Cleaning kit	387-9549	9.66	9.21
Printer ribbon, for marking labels, patch panel tape and bundle tag	387-9859	14.94	14.21
Printer ribbon, outlet labels	387-9860	16.08	15.77
Printer ribbon, for marking labels and outlet labels	387-9872	14.94	14.21
<b>Self Laminating Labels - White</b>			
Size (mm)	Max Cable Dia.	Pack Qty	
25.4 x 25.4	5mm	250	387-9604 20.59 19.60
25.4 x 63.5	14mm	100	387-9616 15.78 15.02
25.4 x 101.6	24mm	100	387-9628 18.97 17.25
25.4 x 38.1	7mm	250	387-9630 26.50 25.24
38.1 x 101.6	24mm	100	387-9641 25.21 24.25
<b>Heat Shrink Sleeves - 100 Per Pack (11.4-24.1mm - 50 Per Pack)</b>			
Size (mm)	Cable Dia.	Colour	
25.78 x 4.62	0.6 - 2	White	387-9653 31.43 31.43
25.78 x 4.62	0.6 - 2	Yellow	387-9665 21.62 21.62
25.78 x 5.96	1.2 - 2.8	White	387-9677 32.22 32.22

**Cable Markers - continued**

**Thermal Transfer Label/Sleeve Printer - continued**

TLS2200 - continued

			Order Code	Price Each/Per Pack	
				1+	5+
<b>Heat Shrink Sleeves - 100 Per Pack (11.4-24.1mm - 50 Per Pack)</b>					
25.78 x 8.5	1.6 - 3.8	White	<b>387-9690</b>	32.83	32.83
25.78 x 8.5	1.6 - 3.8	Yellow	<b>387-9707</b>	32.83	32.83
25.78 x 11.15	2.4 - 5.4	White	<b>387-9719</b>	37.21	37.21
25.78 x 16.38	3.2 - 8.1	White	<b>387-9732</b>	40.75	40.75
25.78 x 21.61	4.8 - 11.4	White	<b>387-9756</b>	46.52	46.52

**K3000PC Label Printer**



- Desktop label printer
- Thermal transfer and direct thermal printing
- 300dpi print resolution
- Drawing and text tools
- Bar-code library (including 2D barcodes)
- Alpha/Numeric sequencing
- Custom fonts for logos and symbols
- Easy loading self-contained cartridges

- User selectable label length
- Machine operating temperature 7° to 40°C
- Compatible with Industrial tape, Heat shrink tubing and Wire wrap labels

474251

Mfrs. List No.	Order Code	1+	5+	Price Each
K3100PC UK	<b>136-9935</b>	148.93	141.48	
K3100PC EU	<b>142-1442</b>	148.93	141.48	

**K4100 Label Printer**



- Thermal transfer print technology
- Two line x 16 character LCD display
- Prints 6-72 point at 300 dpi resolution
- Use stand alone or with your PC
- Downloadable scaleable fonts
- On-board memory to store label formats and fonts
- Flash upgradeable firmware
- Real time clock with time/date stamping ability
- 10 resident bar codes including Code 39 and Code 128
- Multi-language prompts including English and Spanish
- Alpha/Numeric sequencing (A-Z, 1-999)
- Repeat function allows up to 999 copies
- Built-in cutter and feed control to eliminate waste
- Print styles include frame, bold, italic, underline and mirror
- Rotate feature for landscape or portrait mode
- Vertical and horizontal print formats
- Audible key clicks
- Compatible with Industrial tape, Heat shrink tubing and Wire wrap labels

474252

Mfrs. List No.	Order Code	1+	5+	Price Each
K4100 UK	<b>136-9936</b>	203.52	193.34	
K4100 EU	<b>142-1443</b>	203.52	193.34	

**Technical information at your fingertips**



Over **352,000** technical datasheets available online.

Visit [www.farnell.co.uk](http://www.farnell.co.uk) and look for the **Tech Info** heading in your search results.



**K5100 Label Printer**



- Thermal transfer print technology
- Two line x 16 character LCD display
- Prints 6-72 point at 300 dpi resolution
- Use stand alone or with your PC
- Downloadable scaleable fonts
- On-board memory to store label formats and fonts
- Flash upgradeable firmware
- Real time clock with time/date stamping ability
- 10 resident bar codes including Code 39 and Code 128
- Multi-language prompts including English and Spanish
- Alpha/Numeric sequencing (A-Z, 1-999)
- Repeat function allows up to 999 copies
- Built-in cutter and feed control to eliminate waste
- Print styles include frame, bold, italic, underline and mirror
- Rotate feature for landscape or portrait mode
- Vertical and horizontal print formats
- Audible key clicks
- Compatible with Industrial tape, Heat shrink tubing and Wire wrap labels

474253

Mfrs. List No.	Order Code	1+	5+	Price Each
K5100 UK	<b>136-9937</b>	235.65	223.87	
K5100 EU	<b>142-1444</b>	235.65	223.87	



**Industrial Tapes, Heatshrink Tubing and Wire Wrap Labels**



**Industrial Tape**

- Specially developed for the industrial labelling environment
- Water and chemical resistant
- Tape is 12 metres in length



**Heat Shrink Tubing**

- Black on white or black on yellow tubing
- Irradiated polyolefin MIL-LT
- Shrink temperature 90°C
- Shrink ratio 3:1
- Flammability: UL224, VW-1
- Tubing is 2.8 metres in length



**Wire Wrap Labels**

- Self-laminating translucent vinyl with white printable area
- Ultimate adhesion to difficult substrates such as wire insulation materials, plastics and metals
- UV, temperature, chemical, water, and abrasion resistant

474285

Colour	Material	Tape Length	Mfrs. List No.	Order Code	1+	5+	Price Each
<b>Industrial Tapes</b>							
Black on White	Polyester	12m	2437916	<b>136-9938</b>	27.81	26.41	
Black on White	Vinyl	12m	2558116	<b>136-9940</b>	28.88	27.43	
Black on Yellow	Vinyl	12m	2558143	<b>136-9941</b>	28.88	27.43	
Black on White	Vinyl	12m	2558316	<b>136-9942</b>	24.59	23.36	
Black on Yellow	Vinyl	12m	2558343	<b>136-9943</b>	18.91	17.97	
<b>Heat Shrink Tubing</b>							
Black on White	Polyolefin	2.8m	2470001	<b>136-9944</b>	20.30	19.28	
Black on Yellow	Polyolefin	2.8m	2470002	<b>136-9946</b>	20.30	19.28	
Black on White	Polyolefin	2.8m	2470011	<b>136-9947</b>	21.37	20.30	
Black on Yellow	Polyolefin	2.8m	2470012	<b>136-9948</b>	21.37	20.30	
Black on White	Polyolefin	2.8m	2470021	<b>136-9949</b>	22.44	21.32	
Black on Yellow	Polyolefin	2.8m	2470022	<b>136-9950</b>	22.44	21.32	
Black on White	Polyolefin	2.8m	2470031	<b>136-9951</b>	23.51	22.34	
Black on Yellow	Polyolefin	2.8m	2470032	<b>136-9952</b>	23.51	22.34	
Black on White	Polyolefin	2.8m	2470041	<b>136-9953</b>	24.59	23.36	
Black on Yellow	Polyolefin	2.8m	2470042	<b>136-9954</b>	24.59	23.36	
<b>Wire Wrap Labels</b>							
<b>Pack Qty</b>							
White	Vinyl	160	2556702	<b>136-9955</b>	18.74	17.79	
White	Vinyl	110	2556703	<b>136-9956</b>	18.74	17.79	
White	Vinyl	227	2556707	<b>136-9958</b>	18.74	17.79	

## Harsh Environment Identification

### Marker Plate



- Provides permanent identification of pipes, conduit, valves, cables and equipment in harsh environments
- Designed for use with PANDUIT® PAN-STEEL® stainless steel cable ties for fast installation at lowest installed cost
- All marker plates can be embossed or laser etched with PANDUIT factory custom marking service
- For on-site custom marking use the metal indenting machine



Mfrs List No.	Material	Length (mm)	Width (mm)	Custom Marking Parameters	Thickness (mm)
MMP350-C	304 Stainless Steel	89	19	23 Characters Per Line, 3 Lines of Text Max	0.25
MMP350-C316	316 Stainless Steel	89	19	23 Characters Per Line, 3 Lines of Text Max	0.25
MMP350H-C	304 Stainless Steel	89	19	20 Characters Per Line, 3 Lines of Text Max	0.25
MMP350H-C316	316 Stainless Steel	89	19	20 Characters Per Line, 3 Lines of Text Max	0.25
MMP350DB-C	304 Stainless Steel	89	29	20 Characters Per Line, 3 Lines of Text Max	0.38
MMP350DB-C316	316 Stainless Steel	89	29	20 Characters Per Line, 3 Lines of Text Max	0.38
MMP350W38-C	304 Stainless Steel	89	10	23 Characters Per Line, 1 Lines of Text Max	0.25
MMP350W38-C316	316 Stainless Steel	89	10	23 Characters Per Line, 1 Lines of Text Max	0.25
MMP172-C	304 Stainless Steel	44	19	8 Characters Per Line, 3 Lines of Text Max	0.25
MMP172-C316	316 Stainless Steel	44	19	8 Characters Per Line, 3 Lines of Text Max	0.25
MMP172W38-C	304 Stainless Steel	44	10	8 Characters Per Line, 1 Lines of Text Max	0.25
MMP172W38-C316	316 Stainless Steel	44	10	8 Characters Per Line, 1 Lines of Text Max	0.25
MMP350W17-Q	304 Stainless Steel	89	44	26 Characters Per Line, 6 Lines of Text Max	0.38
MMP338W21-Q	304 Stainless Steel	86	54	22 Characters Per Line, 6 Lines of Text Max	0.38

485597

Mfrs. List No.	Order Code	1+	5+	10+
MMP350-C	147-1607●	48.11	45.70	43.42
MMP350-C316	147-1608●	55.02	52.27	49.65
MMP350H-C	147-1609●	59.99	56.99	54.13
MMP350H-C316	147-1610●	68.37	64.94	61.69
MMP350DB-C	147-1611●	44.66	42.43	40.31
MMP350DB-C316	147-1613●	55.19	52.43	49.81
MMP350W38-C	147-1614●	44.61	42.38	40.26
MMP350W38-C316	147-1615●	52.80	50.16	47.65
MMP172-C	147-1616●	21.76	20.67	19.64
MMP172-C316	147-1617●	24.44	23.20	22.05
MMP172W38-C	147-1618●	25.17	23.92	22.72
MMP172W38-C316	147-1619●	33.14	31.48	29.91
MMP350W17-Q	147-1620●	22.64	21.50	20.43
MMP338W21-Q	147-1621●	27.81	26.42	25.09

### Marker Tags



- Provides permanent identification of pipes, conduit, valves, cables and equipment in harsh environments
- Designed for use with PANDUIT® PAN-STEEL® stainless steel cable ties for fast installation at lowest installed cost
- All marker tags can be embossed or laser etched with PANDUIT factory custom marking service
- For on-site custom marking use the metal indenting machine



Mfrs List No.	Material	Length (mm)	Width (mm)	Custom Marking Parameters	Thickness (mm)
MT350-C	304 Stainless Steel	89	19	26 Characters Per Line, 3 Lines of Text Max	0.25
MT350-C316	316 Stainless Steel	89	19	23 Characters Per Line, 3 Lines of Text Max	0.25
MT172-C	304 Stainless Steel	44	19	10 Characters Per Line, 3 Lines of Text Max	0.25
MT172-C316	316 Stainless Steel	44	19	10 Characters Per Line, 3 Lines of Text Max	0.25
MT1D-Q	304 Stainless Steel	25	-	5 Characters Per Line, 1 Lines of Text Max	0.89
MT1D-Q316	316 Stainless Steel	25	-	5 Characters Per Line, 1 Lines of Text Max	0.89
MTB1D-Q	Brass	25	-	5 Characters Per Line, 1 Lines of Text Max	1.02

Mfrs List No.	Material	Length (mm)	Width (mm)	Custom Marking Parameters	Thickness (mm)
MT150D-Q	304 Stainless Steel	38	-	5,6,5 Characters Per Line, 3 Lines of Text Max	0.89
MT150D-Q316	316 Stainless Steel	38	-	5,6,5 Characters Per Line, 3 Lines of Text Max	0.89
MTB150D-Q	Brass	38	-	5,6,5 Characters Per Line, 3 Lines of Text Max	1.02
MT213D-Q	304 Stainless Steel	54	-	6,12,8 Characters Per Line, 3 Lines of Text Max	0.38
MT213D-Q316	316 Stainless Steel	54	-	6,12,8 Characters Per Line, 3 Lines of Text Max	0.38
MTB213D-Q	Brass	54	-	6,12,8 Characters Per Line, 3 Lines of Text Max	0.38
MT125S-Q	304 Stainless Steel	32	32	5 Characters Per Line, 2 Lines of Text Max	0.89

485581

Mfrs. List No.	Order Code	1+	5+	10+
MT350-C	147-1622●	43.06	40.90	38.86
MT350-C316	147-1623●	55.07	52.31	49.70
MT172-C	147-1625●	30.43	28.91	27.45
MT172-C316	147-1626●	38.24	36.32	34.51
25 Per Pack				
MT1D-Q	147-1627●	15.28	14.51	13.79
MT1D-Q316	147-1628●	19.10	18.14	17.23
MTB1D-Q	147-1629●	14.59	13.85	13.15
MT150D-Q	147-1630●	22.79	21.64	20.56
MT150D-Q316	147-1631●	28.49	27.06	25.72
MTB150D-Q	147-1632●	17.48	16.60	15.77
MT213D-Q	147-1633●	52.87	50.22	47.71
MT213D-Q316	147-1634●	64.16	60.94	57.89
MTB213D-Q	147-1635●	22.33	21.22	20.15
MT125S-Q	147-1637●	28.37	26.95	25.60

### Aluminium Cable Tie



- Lightweight, aluminum construction for flexibility and ease of handling
- Five colour options in addition to natural aluminum finish for colour coding applications
- Smooth surfaces and rounded edges, protects the cable bundle and the installer for improved productivity, job site safety, and reliability
- Patented self-locking head design, reduces installation steps for improved productivity
- For use with PAN-ALUM™ marker plates for fast installation at the lowest installed cost

Mfrs List No.	Length (mm)	Width (mm)	Thickness (mm)	Bundle Diameter	
				Min (mm)	Max (mm)
MLT1H-LPALXX	140	7.9	0.03	12.7	25
MLT2H-LPALXX	201	7.9	0.03	12.7	51
MLT4H-LPALXX	362	7.9	0.03	12.7	102

\*MLT1H-LPALxx, xx = Colour of Cable Tie

485745

Mfrs. List No.	Colour	Order Code	1+	5+	10+
MLT1H-LPALBU	Blue	147-1586●	28.64	27.20	25.85
MLT2H-LPALBU	Blue	147-1587●	30.93	29.38	27.91
MLT4H-LPALBU	Blue	147-1588●	39.43	37.46	35.59
MLT1H-LPALGR	Green	147-1589●	28.64	27.20	25.85
MLT2H-LPALGR	Green	147-1590●	30.93	29.38	27.91
MLT4H-LPALGR	Green	147-1591●	39.43	37.46	35.59
MLT1H-LPALRD	Red	147-1592●	28.64	27.20	25.85
MLT2H-LPALRD	Red	147-1593●	31.86	30.26	28.75
MLT4H-LPALRD	Red	147-1595●	39.43	37.46	35.59
MLT1H-LPALBL	Black	147-1596●	28.64	27.20	25.85
MLT2H-LPALBL	Black	147-1597●	30.93	29.38	27.91
MLT4H-LPALBL	Black	147-1598●	39.43	37.46	35.59
MLT1H-LPALYL	Yellow	147-1599●	28.64	27.20	25.85
MLT2H-LPALYL	Yellow	147-1601●	30.93	29.38	27.91
MLT4H-LPALYL	Yellow	147-1602●	39.43	37.46	35.59
MLT1H-LPAL	Aluminium	147-1603●	28.64	27.20	25.85
MLT2H-LPAL	Aluminium	147-1605●	30.93	29.38	27.91
MLT4H-LPAL	Aluminium	147-1606●	40.61	38.58	36.66

### Aluminium Marker Plates



- Smooth surface and rounded edges
- Patented self-locking cable tie design
- Smooth cable tie cut-off
- Flexible, lightweight material and colour options of aluminum marker plates and cable ties
- Easy feed cable tie slot

- Five colour options in addition to natural aluminum finish provide quick visual identification, ideal for applications requiring colour-coding

**Harsh Environment Identification - continued**

**Aluminium Marker Plates - continued**

Mfrs List No.	Colour	Material	Length (mm)	Width (mm)	Custom Marking Parameters
MMP350H-CALBU	Blue	Anodized Aluminum	89	19	23 Characters Per Line, 3 Lines of Text Max
MMP350H-CALGR	Green	Anodized Aluminum	89	19	23 Characters Per Line, 3 Lines of Text Max
MMP350H-CALRD	Red	Anodized Aluminum	89	19	23 Characters Per Line, 3 Lines of Text Max
MMP350H-CALBL	Black	Anodized Aluminum	89	19	23 Characters Per Line, 3 Lines of Text Max
MMP350H-CALYL	Yellow	Anodized Aluminum	89	19	23 Characters Per Line, 3 Lines of Text Max
MMP350H-CAL	Natural	Aluminium	89	19	23 Characters Per Line, 3 Lines of Text Max

485649

100 Per Pack		Price Per Pack		
Mfrs. List No.	Order Code	1+	5+	10+
MMP350H-CALBU	147-1579	52.43	49.80	47.31
MMP350H-CALGR	147-1580	52.43	49.80	47.31
MMP350H-CALRD	147-1581	52.43	49.80	47.31
MMP350H-CALBL	147-1583	52.43	49.80	47.31
MMP350H-CALYL	147-1584	54.00	51.29	48.73
MMP350H-CAL	147-1585	52.43	49.80	47.31

**Metal Embossing Hand Tool and Tape**



- Creates custom length marker plates and tags for quick, easy and permanent identification
- Embosses 3/16" (4.77mm) characters onto stainless steel or aluminum tape
- Portable on-site custom marking

Mfrs List No.	Parts Description
<b>Tool Kit</b>	
MEHT	Includes tool, carrying case, (1) roll each META(aluminum) and METS4 (stainless steel) tape. Characters include: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 2 3 4 5 6 7 8 9 . /
<b>Tape</b>	
META-X	12.7mm x 4.9M aluminum tape
METS3-X	12.7mm x 6.4M 316 grade stainless steel tape
METS4-X	12.7mm x 6.4M 304 grade stainless steel tape

485877

10 Per Pack		Price Per Kit		
Mfrs. List No.	Order Code	1+	5+	10+
MEHT	147-1575	533.21	506.54	481.22
META-X	147-1576	53.40	50.72	48.20
METS3-X	147-1577	100.91	95.86	91.08
METS4-X	147-1578	87.56	83.17	79.01

**Cable Grommets**

**TSS Grommets**



This range of low cost grommets are available in black, grey and white from M16 to M32. Intended for fast and easy installation, these products should be particularly useful in volume manufacturing and installation work saving time and effort as they have some built-in features not normally found in this relatively simple product.

- For use with cables or pipework
- Handles an exceptionally large cable (or pipe) diameter range.
- Panel thickness variation 0.5-4.5mm (depending on products)
- Quick and easy assembly - no tools required.
- Push-out membrane (not pierced) ensures an IP67 seal is certain.
- The sock closes tight around the cable and allows for movement (joy-stick fashion) without compromising the IP rating.
- Works extremely well with cables passing through at an angle.
- IP rating maintained before and after cable fitment - no need to fit 'temporary' seals

Material TPE - Thermoplastic Elastomer - UL approved material, Halogen Free  
 Mode of protection IP67  
 Temperature range -50°C - 125°C  
 Test standard IEC 60529, IP67

Thread Size	Cable Diameter		Diameter Fixing Hole (mm)	Panel Thickness	
	Min (mm)	Max (mm)		Min (mm)	Max (mm)
M16	5	10	16.5	0.5	3
M20	6	13	20.5	0.5	3
M25	8	17	25.5	0.5	3.5
M32	12	24	32.5	0.5	4.5

Mfrs. List No.	Size	Pack Qty	Order Code	Price Per Pack	
				1+	10+
<b>Grey</b>					
1475711	M16	50	156-4442	7.47	7.09
1475712	M20	50	156-4443	8.96	8.51
1475713	M25	50	156-4445	11.95	11.34
1475714	M32	25	156-4446	9.46	8.99
<b>Black</b>					
1475716	M16	50	156-4447	7.47	7.09
1475717	M20	50	156-4448	8.96	8.51
1475718	M25	50	156-4449	11.95	11.34
1475719	M32	25	156-4450	9.46	8.99
<b>White</b>					
1475721	M16	50	156-4451	7.47	7.09
1475722	M20	50	156-4452	8.62	8.18
1475723	M25	50	156-4453	11.49	10.90
1475724	M32	25	156-4454	9.46	8.99

505429

Mfrs. List No.	Size	Order Code	Price Each
			1+
<b>Grey</b>			
1475711	M16	156-4542	0.156
1475712	M20	156-4543	0.188
1475713	M25	156-4544	0.260
1475714	M32	156-4545	0.400
<b>Black</b>			
1475716	M16	156-4546	0.156
1475717	M20	156-4548	0.188
1475718	M25	156-4549	0.260
1475719	M32	156-4550	0.400
<b>White</b>			
1475721	M16	156-4551	0.156
1475722	M20	156-4552	0.188
1475723	M25	156-4553	0.260
1475724	M32	156-4554	0.400

**Cable Retention Grommets**



EPDM is generally more resistant to cold temperature, diluted acids and ozone than CR material. These products provide an economical alternative to cable glands when taking through a bulkhead or panel. They are quick and easy to install from one side only (no tool is required) and they also provide a measure of cable retention and sealing to IP67 in accordance with EN60529.

- Quick method of taking a cable through a bulkhead or panel - no tools required
- Low profile on front of panel/bulkhead, ideal for use in restricted places
- EPDM temperature range -30 to 130°C
- Seals to IP67
- Halogen-free EPDM (Grey)
- Metric and PG sizes

Thread Size	Cable Diameter		Diameter Fixing Hole (mm)	Panel Thickness	
	Min (mm)	Max (mm)		Min (mm)	Max (mm)
M12	4	7	12.5	0.5	2
M16	5	9	16.5	1	4
M20	8	12	20.5	1	4
M25	11	16	25.5	1	4
M32	15	20	32.5	1	4
M40	19	28	40.5	1	4
M50	27	35	50.5	1	4
PG7	3	5	13	0.5	2
PG9	5	7	16	1	4
PG11	7	10	19	1	4
PG16	10	14	23	1	4
PG21	14	20	29	1	4
PG29	20	26	38	1	4
PG36	26	35	48	1	4

Mfrs. List No.	Size	Pack Qty	Order Code	Price Per Pack	
				1+	10+
<b>Metric</b>					
1458233	M12	50	156-4455	14.44	13.71
1458234	M16	50	156-4457	14.94	14.18
1458235	M20	50	156-4458	16.75	16.25
1458236	M25	50	156-4459	19.41	18.44
1458237	M32	25	156-4460	12.94	12.30
1458238	M40	25	156-4461	23.39	22.21
1458239	M50	10	156-4462	12.84	12.19
<b>PG</b>					
1458220	PG7	50	156-4463	14.44	13.71
1458221	PG9	50	156-4464	14.94	14.18
1458222	PG11	50	156-4465	16.75	16.25
1458223	PG16	50	156-4466	19.41	18.44
1458224	PG21	25	156-4467	12.94	12.30
1458225	PG29	25	156-4469	23.39	22.21
1458226	PG36	10	156-4471	12.84	12.19

505456

Mftrs. List No.	Size	Order Code	Price Each 1+
<b>Metric</b>			
1458233	M12	156-4555●	0.31
1458234	M16	156-4556●	0.32
1458235	M20	156-4557●	0.40
1458236	M25	156-4558●	0.42
1458237	M32	156-4561●	0.54
1458238	M40	156-4562●	0.96
1458239	M50	156-4563●	1.29
<b>PG</b>			
1458220	PG7	156-4564●	0.31
1458221	PG9	156-4565●	0.32
1458222	PG11	156-4566●	0.40
1458223	PG16	156-4567●	0.42
1458224	PG21	156-4568●	0.54
1458225	PG29	156-4569●	0.96
1458226	PG36	156-4570●	1.29

Panel Hole Diameter	Max. cable Diameter	Outside Diameter	Overall Thickness	Order Code
<b>Open Grommets</b>				
10.3	8	15.9	6.4	◆118-9039
11.1	7.2	15.9	6.4	◆118-9040
11.1	8	14.3	4.8	◆118-9041
11.9	6.4	15.9	8	◆118-9042
11.9	9.5	17.5	6.8	◆118-9043
12.7	9.5	15.9	6.3	◆118-9044
14.3	11.1	19	6.4	◆118-9045
19	12.7	25.4	6.4	◆118-9046
20	15.9	23.8	6.4	◆118-9047
25.4	19	30	7.5	118-9048
<b>Blanking Grommets</b>				
15.9	—	22.2	—	118-9051
20	—	25.4	—	118-9052
25.4	—	31.8	—	118-9053

Note: All items marked ◆ are included in the PVC Grommet Kit, see below.

224114

Klikseal



This unique two-material moulded product provides an economical alternative to cable glands when taking a cable through a bulkhead or panel. Available in M20 & M25 metric sizes, the product click-fixes into place and self adjusts to the surrounding panel thickness which makes installation quick, easy and economical. The cable is then fed through the product, piercing the membrane (no tool is required) and obtains the IP67 sealing. Due to the unique two-part moulded construction the product also provides a positive cable strain relief.

- Low cost, quick method of taking a cable through a bulkhead or panel - no tools required
- Low profile on front of panel/bulkhead, ideal for use in restricted places
- Temperature range -20°C to +125°C
- Seals to IP67 (Approval Pending)
- Halogen-Free TPE and Polyamide 66 construction
- Wide cable range
- Built-in cable strain relief
- Available in Grey, Black or White

Thread Size	Cable Diameter		Diameter Fixing Hole (mm)	Panel Thickness (mm)	
	Min (mm)	Max (mm)		Min (mm)	Max (mm)
M20	4	10	20.5	1.5	5
M25	4	14	25.5	1.5	5

Mftrs. List No.	Size	Pack Qty	Order Code	Price Per Pack 1+	10+
<b>Grey</b>					
1475803	M20	50	156-4436●	21.63	20.55
1475804	M25	50	156-4437●	25.70	24.40
<b>Black</b>					
1475813	M20	50	156-4438●	21.63	20.55
1475814	M25	50	156-4439●	25.70	24.40
<b>White</b>					
1475823	M20	50	156-4440●	21.63	20.55
1475824	M25	50	156-4441●	25.70	24.40

505402

Mftrs. List No.	Size	Order Code	Price Each 1+
<b>Grey</b>			
1475803	M20	156-4536●	0.42
1475804	M25	156-4537●	0.50
<b>Black</b>			
1475813	M20	156-4538●	0.42
1475814	M25	156-4539●	0.50
<b>White</b>			
1475823	M20	156-4540●	0.42
1475824	M25	156-4541●	0.50

PVC



A range of Black PVC grommets for all general industrial installation type uses.

Maximum panel thickness 1.6 (except Order Code 118-9028, max 1.2)  
Operating temperature -35°C to +70°C

Panel Hole Diameter	Max. cable Diameter	Outside Diameter	Overall Thickness	Order Code
<b>Open Grommets</b>				
4.8	3.2	8	6.4	◆118-9027
6.4	4	9.5	4	118-9028
6.4	4	9.5	6.4	◆118-9030
6.4	4.8	9.5	7.1	◆118-9031
8	4.8	11.1	6.4	◆118-9032
9.5	4.8	12.7	5.6	◆118-9033
9.5	6.4	12.7	4.8	◆118-9034
9.5	6.4	14.3	6.4	◆118-9035
9.5	7.5	13.5	6.4	◆118-9036
9.5	8	14.3	4.8	◆118-9038

100 Per Pack	Order Code	Price Per Pack				
		1+	5+	10+	25+	50+
<b>Open</b>						
	118-9027●	3.15	2.92	2.68	2.34	2.21
	118-9028●	3.70	3.47	3.15	2.72	2.62
	118-9030●	2.94	2.76	2.57	2.39	2.29
	118-9031●	3.56	3.35	3.02	2.64	2.54
	118-9032●	3.69	3.46	3.15	2.72	2.62
	118-9033●	5.34	4.99	4.59	3.96	3.78
	118-9034●	4.68	4.48	4.38	4.08	3.93
	118-9035●	4.96	4.74	4.55	3.93	3.78
	118-9036●	4.93	4.69	4.51	3.90	3.76
	118-9038●	4.94	4.69	4.51	3.90	3.76
	118-9039●	5.30	4.97	4.55	3.93	3.76
	118-9040●	4.09	3.79	3.51	3.01	2.86
	118-9041●	3.29	3.07	2.67	2.39	2.15
	118-9042●	4.37	4.06	3.75	3.21	3.07
	118-9043●	6.85	6.43	5.88	5.07	4.88
	118-9044●	4.91	4.48	3.96	3.73	3.56
	118-9045●	7.79	7.28	6.69	5.76	5.52
	118-9046●	6.93	6.47	5.96	5.13	4.90
	118-9047●	2.41	2.35	2.26	2.16	2.04
	118-9048●	5.83	5.66	5.53	5.21	4.78
<b>Blanking</b>						
	118-9051●	6.98	6.74	6.36	5.45	5.14
	118-9052●	5.17	5.05	5.00	4.75	4.36
	118-9053●	8.46	8.14	8.06	7.79	7.08

PVC Grommet Kit



A kit of 18 different sizes of grommets suitable for use with 1.6mm thick panels. The kit covers a range of panel hole sizes from 4.8mm to 20mm, with cable hole diameters ranging from 3.2mm to 15.9mm. Supplied in an 18 compartment storage box.

No. of Grommets in kit 450  
Max. operating temperature +70°C

224115

Order Code	Price Each		
	1+	5+	10+
118-9054●	41.20	37.17	32.35

Rubber



224116

100 Per Pack	Chassis Hole	Cable Entry	Order Code	Price Per Pack		
				1+	5+	10+
	9.5	6.35	303-161●	9.75	8.95	8.00
	12.7	9.5	303-173●	12.08	10.59	9.72

700 products added online every week



See our pick of the hottest products and latest technologies in 'What's New?' at [www.farnell.co.uk](http://www.farnell.co.uk)



### Cable Grommets - continued

#### Sleeved Grommet



- Provides support and protection for cables and wires passing through panels
- Manufactured from Black PVC

Panel Hole Dia.	Max. Cable Dia.	Body Length	Max. Panel Thickness	Order Code
9.5	6.4	14.3	2.4	390-8392
7.6	6.1	31.7	3.8	432-6325
8.7	5.1	42.9	1.6	432-6337
9.5	6.4	23	2.6	432-6349

233411

50 Per Pack Mfrs. List No.	Order Code	1+	Price Per Pack 20+	50+
50687	390-8392	1.61	1.51	1.42
12461	432-6325	1.56	1.55	1.49
60466	432-6337	2.46	2.40	2.20
12468	432-6349	1.85	1.77	1.58

#### Sleeved Grommets



Panel Hole Dia.	Max. Cable Dia.	Body Length	Max. Panel Thickness	Order Code
7.7	4	38.9	2.4	432-6260
9.6	6.2	41.3	1.6	432-6283
11.3	7.9	38.1	3.2	432-6295
14.2	10.3	38.1	3.2	432-6301

248482

50 Per Pack Mfrs. List No.	Order Code	1+	Price Per Pack 20+	50+
15517	432-6260	2.14	2.08	1.93
60218	432-6283	2.13	2.08	1.89
60752	432-6295	3.03	2.98	2.80
12464	432-6301	3.90	3.82	3.54

#### Multi Cable Grommet



- Suitable for cable diameters from 8mm to 17mm
- Graduated sleeve can be cut to requirement

Panel Hole Diameter	Max. Panel Thickness
20	1.6

248483

50 Per Pack Order Code	1+	Price Per Pack 20+	50+
432-6313	3.48	3.45	3.30

#### Weather Resistant



##### IP66/67 Rated



- Designed to achieve a flexible, dust proof and watertight seal around cables and conduits
- Easy to install
- Suitable for a wide range of applications
- Tested in accordance with **BS EN 60529:1992** to IP66/67

Panel Hole (mm)	Panel Thickness	Cable Diameter	Order Code
12.5	1 to 4mm	3 to 5mm	417-8968
16	1 to 4mm	5 to 7mm	417-8970
19	1 to 4mm	7 to 10mm	417-8981
23	1 to 4mm	10 to 14mm	417-8993
29	1 to 4mm	14 to 20mm	417-9006

242424

50 Per Pack Mfrs. List No.	Order Code	1+	Price Per Pack 5+	10+	25+	50+
RB1801	417-8968	25.41	22.85	21.19	19.06	17.58
RB1802	417-8970	27.56	24.80	23.01	20.68	19.08
RB1803	417-8981	30.40	27.36	25.37	22.80	21.05
RB1804	417-8993	32.85	29.59	27.42	24.66	22.76
RB1805	417-9006	47.79	43.02	39.89	35.84	33.09

Over 480,000 products online



#### Shrinkhoop Cable Clamp Heat-Shrink Grommet



- Ultra High ratio heat-shrinkable relief grommet that can be placed over the cable assembly after the connector pin
- Reduced assembly time
- Superior strain relief
- Rework made easier
- Re-expandable I.D. allows wire addition to a cable bundle
- No build-up taping or feeding wire through a grommet
- Operating temperature: -55°C to 135°C

Inner Diameter Expanded, Minimum	Inner Diameter Recovered, Maximum	Outer Diameter	Supplier Part Number
25mm (1.00")	2.1mm (0.08")	6.0mm (0.25")	URHR-1-0
31mm (1.23")	2.6mm (0.10")	10mm (0.375")	URHR-2-0
37mm (1.44")	3.6mm (0.14")	13mm (0.50")	URHR-3-0
47mm (1.85")	4.7mm (0.18")	14mm (0.562")	URHR-4-0
51mm (2.00")	5.1mm (0.20")	21mm (0.812")	URHR-5-0

338613

Supplier No.	Order Code	1+	Price Each 5+
URHR-1-0	496-6831	3.62	3.45
URHR-2-0	496-6843	1.30	1.24
URHR-3-0	496-6855	1.43	1.35
URHR-4-0	496-6867	1.61	1.55
URHR-5-0	496-6879	7.16	6.74

#### Flexiform Grommet Strips

##### G51P Series



- Flexiform U-profile edge protection grommet strips
- Installation without the need for adhesives
- The close-fitting profile provides effective protection for cables by preventing any chafing.
- Typical applications: Protection of cables routed through sharp-edged cut-out sections.

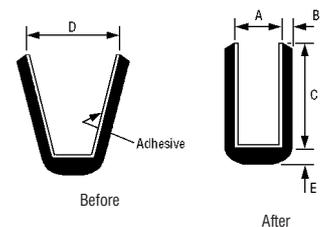
Material/Colour: Polyethylene (PE), Natural  
 Operating temperature: -30°C to +80°C continuous (+120°C for 200h)  
 meets UL94V-2

Mfrs. List No.	Panel Thickness		Width (mm)	Height (mm)
	min. (mm)	max. (mm)		
G51P-A-PE-NA	0.4	1.5	3.9	4.3
G51P-B-PE-NA	1.3	2.4	4.6	4.3
G51P-C-PE-NA	2.2	3.4	5.7	4.3
G51P-D-PE-NA	3.3	5.0	8.4	6.2
G51P-E-PE-NA	4.9	6.7	9.9	6.4

417758

Mfrs. List No.	Order Code	Price Per Roll (25m)			
		1+	5+	10+	25+
G51P-A-PE-NA	107-9551	45.20	40.69	36.98	35.06
G51P-B-PE-NA	107-9552	47.36	42.62	38.74	36.73
G51P-C-PE-NA	107-9553	50.30	45.27	41.16	39.03
G51P-D-PE-NA	107-9555	52.77	47.49	43.18	40.95
G51P-E-PE-NA	107-9556	55.60	50.03	45.49	43.14

#### Rayrim™ Adhesive Panel Edging



- Extruded edging strip internally coated with heat activated adhesive
- Heating changes profile from 'V' to a 'U' section
- Utilises radiation cross-linked polyolefin
- Applies to both internal and external radii and straight edges
- Bonds to metal, wood or glass edges
- Installation temperature, 150°C to 200°C
- -55°C to 80°C operating temperature

A (max)	B (min)	C (min)	D (min)	E (typical)	Mftrs. List No.	Order Code
0.6	0.5	3.5	0.8	1.25	RAYRIM-NR6-0-769-174	1.2m 769-174 134-727
1.0	0.9	4.8	1.6	1.25	RAYRIM-NR7-0-769-186	5m 769-186 134-739
2.0	0.9	6.6	2.5	2.25	RAYRIM-NR8-0-769-198	769-198 134-740
4.2	0.9	13.5	4.5	2.20	RAYRIM-NR9-0-769-204	769-204 134-752

208176

Panel Thickness (max)	Order Code	Price Each			
		1+	25+	100+	250+
1.2m Length	769-174	2.10	1.89	1.62	1.43
	769-186	2.67	2.42	2.08	1.85
	769-198	3.76	3.36	2.91	2.58
	769-204	5.43	5.13	4.89	4.67
	134-727	8.62	7.83	6.70	5.92
5m Length	134-739	10.87	9.74	8.40	7.49
	134-740	15.65	13.99	12.10	10.69
	134-752	27.30	24.49	21.58	19.25

Panel Edging



A versatile method of protection from raw metal edges of panels, racks and cabinets, grommet strip may be used along straight or formed curved edges. It may also be used to form internal protection for cut-outs, either round or rectangular.

Material Polyethylene  
Operating temperature -50°C to +50°C

224117

Panel Thickness	Order Code	Price Per Length				
		1+	5+	10+	25+	50+
1.5—2.0mm	127-9031	10.03	9.11	8.80	7.32	6.96
2.5—3.30mm	127-9032	11.22	10.23	9.89	7.83	7.41

Cable Glands



Cable Gland Skintop® Click



SKINTOP® Click, the most innovative cable entry system on the market for fastest mounting, with all the reliable attributes of the world renowned Skintop Cable Gland range. Click in - turn left - turn right - done. Skintop Click-R with reducing seal for smaller clamping ranges.

- Unique click system for fast mounting
- Protection class IP68
- Operating temperature: -40°C to 100°C
- Polyamide construction

Mounting Thread (mm)	Cable Diameter (mm)	Length (mm)	Wall Thickness (mm)
M12	3.5 - 7	40	1 - 4
M16	5 - 9	42	1 - 4
M20	7 - 13	45.5	1 - 4
M25	9 - 17	48.5	1 - 4
M32	11 - 21	55	1 - 4

Mftrs. List No.	Size	Pack Qty	Order Code	Price Per Pack	
				1+	5+
<b>Light Grey</b>					
53112921	M12	10	NEW 161-7820	11.55	10.78
53112686	M16	50	128-6008	55.84	50.76
53112687	M20	25	128-6009	37.28	33.90
53112688	M25	25	128-6010	47.33	43.02
53112922	M32	10	NEW 161-7821	16.56	15.75
<b>Silver Grey</b>					
53112876	M16	50	150-4024	55.84	50.76
53112877	M20	25	150-4025	37.28	33.90
53112878	M25	25	150-4026	47.33	43.02
<b>Black</b>					
53112923	M12	10	NEW 161-7822	11.55	10.78
53112882	M16	50	150-4027	55.84	50.76
53112883	M20	25	150-4028	37.28	33.90
53112884	M25	25	150-4029	47.33	43.02
53112924	M32	10	NEW 161-7823	16.56	15.75

Each Pack includes 1 removal tool

491258

Mftrs. List No.	Size	Order Code	Price Each
			1+
<b>Light Grey</b>			
53112921	M12	NEW 161-7830	1.32
53112686	M16	128-6061	1.11
53112687	M20	128-6062	1.47
53112688	M25	128-6063	1.87
53112922	M32	NEW 161-7831	2.51
<b>Silver Grey</b>			
53112876	M16	150-4188	1.39
53112877	M20	150-4189	1.86
53112878	M25	150-4190	2.37
<b>Black</b>			
53112923	M12	NEW 161-7832	1.32
53112882	M16	150-4191	1.39
53112883	M20	150-4192	1.86
53112884	M25	150-4193	2.37
53112924	M32	NEW 161-7833	2.51
<b>Removal Tool</b>			
53112696	M12	NEW 162-7135	2.62
53112697	M16	150-4205	3.04
53112698	M20	150-4206	3.40
53112699	M25	150-4207	3.67
53112797	M32	NEW 162-7136	3.96

IP66 - Nylon



A range of Nylon 66 compression glands complete with lock nut and soft Nylon washer. Designed for use with circular PVC and rubber cable the gland provides a watertight entry and strain relief to IP66. Available in Black or White.

Cable Dia.	Mounting Thread Size	Mounting Thread Length	Front Panel Projection	Black	
				Order Code	Order Code
5-7	M13 x 1	8	21	143-607	218-285
4-7	M20 x 1.5	8	21	151-831	218-297
7-10.5	M16 x 1.5	10	25	143-608	218-303
7-10.5	M20 x 1.5	10	25	151-832	218-315
8-13	M20 x 1.5	11	31	143-609	218-327

224123

Order Multiple=5	Cable Dia.	Order Code	Price Each				
			5+	50+	100+	500+	1K+
<b>Black</b>	5-7	143-607	0.66	0.61	0.60	0.58	0.54
	4-7	151-831	0.63	0.57	0.56	0.54	0.52
	7-10.5	143-608	0.63	0.56	0.54	0.53	0.49
	7-10.5	151-832	0.57	0.53	0.52	0.50	0.47
	8-13	143-609	0.80	0.76	0.72	0.68	0.65
<b>White</b>	5-7	218-285	0.61	0.57	0.56	0.55	0.52
	4-7	218-297	0.58	0.54	0.53	0.52	0.47
	7-10.5	218-303	0.58	0.55	0.54	0.52	0.48
	7-10.5	218-315	0.57	0.54	0.53	0.49	0.47
	8-13	218-327	0.74	0.66	0.64	0.60	0.57

Cord Grip Bushes



- Moulded in Black Nylon 66
- Reversible clamping bar for wide cable diameter range
- Compatible with IP66 Nylon glands above
- Optional locknuts available separately
- Flame retardant to UL94V-2

Operating temperature -10 °C to 90 °C

Mounting Thread Size	Cable Diameter	Mounting Thread Length	Overall Length	A/F Size	Order Code Bush	Order Code Locknut
M16 x 1.5	3.5-11	9	23.5	19	303-0740	303-0775
M20 x 1.5	4-14.5	12	29.5	23	303-0751	303-0787
M25 x 1.5	8-18	12	29.5	27	303-0763	303-0799

208288

Order Multiple=10	Thread Size	Order Code	Price Each			
			10+	50+	100+	500+
<b>Cord Grip Bushes</b>						
M16 x 1.5		303-0740	0.340	0.320	0.310	0.300
M20 x 1.5		303-0751	0.350	0.340	0.330	0.310
M25 x 1.5		303-0763	0.720	0.710	0.700	0.610
<b>Locknuts</b>						
M16 x 1.5		303-0775	0.110	0.105	0.099	0.091
M20 x 1.5		303-0787	0.105	0.101	0.094	0.088
M25 x 1.5		303-0799	0.270	0.240	0.230	0.220

Help us to help the environment



This catalogue has been printed on paper certified from a sustainable source. Please recycle after use.



**Cable Glands - continued**

**IP68 - Nylon**



- A range of **IP68** sealed compression cable glands
- Available in Metric and PG thread
- Metric supplied complete with lock nut and washer, PG only with lock nut
- Manufactured from UL recognised **(UL94V-2) NYLON 66**

Thread Size	Cable Diameter (mm)	Thread Length	Colour	Order Code
PG7	3-6.5	8	Grey	162-1060
PG9	4-8	8	Grey	162-1062
PG11	5-10	8	Grey	162-1064
PG13.5	6-12	9	Grey	162-1065
PG16	10-14	10	Grey	162-1066
PG21	13-18	10	Grey	162-1067
PG29	18-25	12	Grey	162-1068
M12	3-6.5	8	Black	162-1069
M16	4-8	8	Black	162-1070
M20	6-12	9	Black	162-1071
M25	13-18	10	Black	162-1072
M32	14-21	11	Black	162-1073
M40	22-32	17.7	Black	126-9065
M50	30-38	17.3	Black	126-9066
M63	34-44	18.5	Black	126-9067

208225

10 Per Pack Thread Size	Order Code	Price Per Pack					
		1+	5+	10+	25+	50+	100+
<b>Grey</b>							
PG7	162-1060	7.75	7.45	6.94	6.63	6.22	6.22
PG9	162-1062	8.06	7.65	7.14	7.04	6.53	6.53
PG11	162-1064	8.87	8.36	8.06	7.75	7.14	7.14
PG13.5	162-1065	10.71	10.10	9.69	9.59	9.08	9.08
PG16	162-1066	12.14	11.63	11.02	10.81	9.89	9.89
PG21	162-1067	22.13	21.11	19.48	18.67	17.34	17.34
PG29	162-1068	36.62	32.84	29.48	28.87	28.25	28.25
<b>Black</b>							
M12	162-1069	8.36	7.14	6.53	6.22	5.81	5.81
M16	162-1070	8.57	7.55	6.94	6.63	6.22	6.22
M20	162-1071	8.87	7.75	7.14	7.04	6.53	6.53
M25	162-1072	11.42	9.79	9.08	8.77	8.36	8.36
M32	162-1073	18.67	18.36	17.95	16.83	15.91	15.91

Thread Size	Order Code	Price Each					
		1+	5+	50+	100+	250+	500+
<b>Black</b>							
M40	126-9065	2.92	2.49	2.33	2.24	2.11	1.98
M50	126-9066	3.61	3.37	3.11	3.05	2.87	2.64
M63	126-9067	4.67	4.36	4.22	4.12	3.90	3.55

**IP68 - Nylon - 'Perfect'  
Dome Top - with Locknut**



A range of **VDE** approved compression type polyamide cable glands, available in Grey with PG thread or Black with Metric thread. Designed for use with circular PVC or rubber cables and provides protection to **IP68** when spanner tightened.

- Supplied complete with locknut
- Wide clamping range available



Mounting Thread Size	Cable Diameter	Mounting Thread Length	Colour	Bush	Mounting Thread Size	Cable Diameter	Mounting Thread Length	Colour	Bush
PG7	3-6.5	8	Grey	116-8775	M12 x 1.5	3-6.5	8	Black	116-8781
PG9	4-8	8	Grey	116-8777	M16 x 1.5	5-10	15	Black	116-8783
PG11	5-10	8	Grey	116-8778	M20 x 1.5	6-12	10	Black	116-8784
PG13.5	6-12	9	Grey	116-8779	M20 x 1.5	10-14	15	Black	116-8785
PG16	10-14	10	Grey	116-8780	M25 x 1.5	13-18	15	Black	116-8786

224124

Order Multiple=5 Thread size	Order Code	Price Each				
		5+	50+	100+	500+	1K+
<b>Grey</b>						
PG7	116-8775	1.02	0.93	0.85	0.81	0.78
PG9	116-8777	1.09	1.07	1.00	0.98	0.90
PG11	116-8778	1.22	1.11	1.07	1.02	0.93
PG13.5	116-8779	1.30	1.18	1.12	1.07	0.97
PG16	116-8780	1.48	1.31	1.19	1.17	1.11
<b>Black</b>						
M12 x 1.5	116-8781	1.02	0.93	0.85	0.81	0.78
M16 x 1.5	116-8783	1.09	1.07	1.00	0.98	0.90
M20 x 1.5	116-8784	1.19	1.17	1.12	1.10	1.06
M20 x 1.5	116-8785	1.20	1.17	1.12	1.10	1.06
M25 x 1.5	116-8786	1.44	1.33	1.25	1.22	1.12

**HSK-K-Ex Cable Glands**



- Nylon glands
- Buna-N seal
- Buna-N O-ring
- Rugged and dependable design
- Protection class **IP69K**
- Temperature range: **-20°C to 95°C**

Thread	Cable Dia. (mm)	AF Size (mm)	Mfrs. List No.	
			Grey	Black
M12 x 1.5	3 - 6.5	15	129120050	1291120150
M16 x 1.5	3 - 6	19	1291160051	1291160151
M16 x 1.5	5 - 10	22	1295160050	1295160150
M20 x 1.5	5 - 9	24	1291200051	1291200151
M20 x 1.5	10 - 14	27	1295200050	1295200150
M25 x 1.5	13 - 18	33	1291250050	1291250150
M25 x 1.5	9 - 16	33	1291250051	1291250151
M32 x 1.5	18 - 25	42	1291320050	1291320150
M32 x 1.5	13 - 20	42	1291320051	1291320151
M40 x 1.5	22 - 32	53	1291400050	1291400150
M40 x 1.5	20 - 26	53	1291400051	1291400151

526880

Mfrs. List No.	Thread	Qty	Order Code	Price Each		
				1+	5+	10+
<b>Gland - Grey</b>						
129120050	M12	50	167-7981	75.80	73.53	71.32
1291160051	M16	50	167-8003	84.24	81.71	79.26
1295160050	M16	50	167-8004	88.00	85.36	82.80
1291200051	M20	50	167-8005	96.28	93.39	90.59
1295200050	M20	50	167-8006	95.36	92.50	89.73
1291250050	M25	50	167-8007	108.24	104.99	101.84
1291250051	M25	50	167-8008	113.64	110.23	106.92
1291320050	M32	25	167-8009	104.22	101.09	98.06
1291320051	M32	25	167-8010	106.90	103.69	100.58
1291400050	M40	10	167-8011	80.10	77.70	75.37
1291400051	M40	10	167-8013	84.97	82.42	79.95
<b>Gland - Black</b>						
1291120150	M12	50	167-8014	75.80	73.53	71.32
1291160151	M16	50	167-8015	84.24	81.71	79.26
1295160150	M16	50	167-8016	88.00	85.36	82.80
1291200151	M20	50	167-8017	96.28	93.39	90.59
1295200150	M20	50	167-8018	95.36	92.50	89.73
1291250150	M25	50	167-8019	108.24	104.99	101.84
1291250151	M25	50	167-8020	113.64	110.23	106.92
1291320150	M32	25	167-8021	104.22	101.09	98.06
1291320151	M32	25	167-8022	106.90	103.69	100.58
1291400150	M40	10	167-8023	80.10	77.70	75.37
1291400151	M40	10	167-8025	84.97	82.42	79.95
<b>Locknut - Grey</b>						
1262120050	M12	100	167-8026	5.60	5.43	5.27
1262160050	M16	100	167-8027	6.48	6.29	6.10
1262200050	M20	100	167-8028	11.84	11.48	11.14
1262250050	M25	100	167-8029	16.96	16.45	15.96
1262320050	M32	50	167-8031	19.40	18.82	18.26
1262400050	M40	25	167-8032	18.40	17.85	17.31
<b>Locknut - Black</b>						
1262120150	M12	100	167-8033	5.60	5.43	5.27
1262160150	M16	100	167-8034	6.48	6.29	6.10
1262200150	M20	100	167-8035	11.84	11.48	11.14
1262250150	M25	100	167-8037	16.96	16.45	15.96
1262320150	M32	50	167-8038	19.40	18.82	18.26
1262400150	M40	25	167-8039	18.40	17.85	17.31

**Strain Relief Cable Gland  
Skintop® Click**



The polyamide-based **SKINTOP® CLICK BS** with its snap-system and bending protection enables a very fast and easy assembly and the integral locking features guarantees permanent vibration resistance. It is designed for use, above all for particular functional safety in hand-held equipment, flexing machine parts, apparatus engineering, light and sound applications and robotics industry.

- Unique click system for fast mounting
- Protection class **IP68**
- Operating temperature: **-20°C to 100°C**
- Polyamide construction

Mfrs. List No.	Size	Pack qty	Order Code	Price Per Pack	
				1+	5+
<b>Grey</b>					
53112934	M12	10	NEW 161-7824	13.40	12.71
53112906	M16	50	150-4030	96.58	87.78
53112907	M20	25	150-4031	61.74	56.13
53112908	M25	25	150-4033	80.59	73.26
53112935	M32	10	NEW 161-7826	33.10	31.43
<b>Black</b>					
53112936	M12	10	NEW 161-7827	13.40	12.71
53112909	M16	50	150-4035	96.58	87.78
53112911	M20	25	150-4036	61.74	56.13
53112912	M25	25	150-4037	80.59	73.26
53112937	M32	10	NEW 161-7828	33.10	31.43
Each Pack includes 1 removal tool					

491021

Mftrs. List No.	Size	Order Code	Price Each
<b>Grey</b>			
53112934	M12	<b>NEW</b> 161-7834	1.98
53112906	M16	150-4194	2.50
53112907	M20	150-4195	3.20
53112908	M25	150-4196	4.18
53112935	M32	<b>NEW</b> 161-7835	4.94
<b>Black</b>			
53112936	M12	<b>NEW</b> 161-7836	1.98
53112909	M16	150-4197	2.50
53112911	M20	150-4199	3.20
53112912	M25	150-4200	4.18
53112937	M32	<b>NEW</b> 161-7838	4.94
<b>Removal Tool</b>			
53112696	M12	<b>NEW</b> 162-7135	2.62
53112697	M16	150-4205	3.04
53112698	M20	150-4206	3.40
53112699	M25	150-4207	3.67
53112797	M32	<b>NEW</b> 162-7136	3.96

**Nickel Plated Brass EMC Cable Glands & Locknuts**



- Full 360° EMC shielding
- Brass nickel plated body and locknut
- Comes complete with EMC locknut and assembly instructions
- Long thread for use on thick or standard panels
- Inner cable protection and Neoprene seal
- Protection class to IP68/5 bar
- Temperature range: -40°C up to 100°C permanent

Thread	Cable Diameter	Length of Thread	Width Across Flats
<b>Cable Glands</b>			
M12	3.0 – 6.5mm	8 mm	15mm
M16	5.0 – 8.0mm	12mm	19mm
M20	6.0 – 12.0mm	12mm	24mm
M25	10.0 – 14.0mm	12mm	30mm
M32	13.0 – 18.0mm	15mm	36mm
M40	18.0 – 25.0mm	15mm	46mm
M50	22.0 – 32.0mm	15mm	60mm
M63	34.0 – 44.0mm	18mm	70mm
PG 7	3.0 – 6.5mm	10mm	15mm
PG 9	4.0 – 8.0mm	10mm	18mm
PG 11	5.0 – 10.0mm	10mm	21mm
PG 13.5	6.0 – 12.0mm	10mm	23mm
PG 16	10.0 – 14.0mm	10mm	26mm
PG 21	13.0 – 18.0mm	12mm	32mm
PG 29	18.0 – 25.0mm	12mm	41mm
PG 36	22.0 – 32.0mm	14mm	51mm

**Skintop® BS-M Strain Relief Gland**



SKINTOP® BS-M with polyamide spiral strain relief, is used for flexible cables and handheld equipment, moving machine parts and in many applications of the instrument industry.

- Wide cable clamping range
- Operating temperature -20°C to 100°C max
- Protection class IP68-5bar
- Polyamide construction

Mounting thread size	Cable diameter	Mounting thread size	Cable diameter
BS-M 12 x 1.5	3.5 - 7mm	BS-M 25 x 1.5	9 - 17mm
BS-M 16 x 1.5	4.5 - 10mm	BS-M 32 x 1.5	11 - 21mm
BS-M 20 x 1.5	7 - 13mm		

Grey	Mftrs. List No.	Size	Pack qty	Order Code	Price Per Pack
	53111600	BS-M 12 x 1.5	100	128-5994	46.05 41.85
	53111610	BS-M 16 x 1.5	100	128-5995	49.58 45.07
	53111620	BS-M 20 x 1.5	50	128-5996	36.09 32.80
	53111630	BS-M 25 x 1.5	25	128-5997	32.62 29.65
	53111640	BS-M 32 x 1.5	25	128-5998	47.82 43.46
<b>Black</b>	53111740	BS-M 32 x 1.5	100	128-5999	195.00 177.27

449344

Grey	Mftrs. List No.	Size	Order Code	Price Each
	53111600	BS-M 12 x 1.5	128-6049	0.58
	53111610	BS-M 16 x 1.5	128-6050	0.62
	53111620	BS-M 20 x 1.5	128-6051	0.91
	53111630	BS-M 25 x 1.5	128-6052	1.63
	53111640	BS-M 32 x 1.5	128-6053	2.39
<b>Black</b>	53111700	BS-M 12 x 1.5	120-4195	0.42
	53111710	BS-M 16 x 1.5	120-4196	0.46
	53111720	BS-M 20 x 1.5	120-4197	0.71
	53111730	BS-M 25 x 1.5	120-4198	1.25
	53111740	BS-M 32 x 1.5	128-6054	2.43

**IP68 - Nylon - 'Perfect' Spiral Top**



A range of cable glands similar to the dome top glands but with an integral flexible cable protector to prevent excessive bending at the cable entry point. Available in Grey with PG thread or Black with Metric thread. Provides protection to IP68 when spanner tightened.

- Supplied complete with locknut
- PG thread sizes VDE approved

Operating temperature -30°C to +100°C

Mounting Thread Size	Cable Diameter	Mounting Thread Length	Colour	Order Code
PG7	3-6.5	8	Grey	116-8787
PG9	4-8	8	Grey	116-8788
PG11	5-10	8	Grey	116-8789
PG13.5	6-12	9	Grey	116-8790
M12 x 1.5	3-6.5	8	Black	116-8791
M16	5-10	15	Black	116-8792
M20	6-12	11	Black	116-8793

224125

Grey	Thread Size	Order Code	5+	50+	100+	500+	1K+
	PG7	116-8787	1.12	1.10	1.06	1.02	0.93
	PG9	116-8788	1.24	1.19	1.16	1.10	1.01
	PG11	116-8789	1.45	1.43	1.39	1.36	1.31
	PG13.5	116-8790	1.51	1.48	1.45	1.43	1.27
<b>Black</b>	M12 x 1.5	116-8791	1.39	1.18	1.10	0.96	0.90
	M16	116-8792	1.56	1.39	1.26	1.12	1.06
	M20	116-8793	1.80	1.56	1.45	1.28	1.19

**Nylon Metric (Anti-Vibration) Cable Glands & Locknuts**



The Tyco Electronics nylon cable glands and locknuts are designed with anti-vibration top caps. This assists in areas where vibration could be a problem, although the cap when tightened is locked it can be un-screwed and re-tightened.

- Anti vibration cap
- Gland comes complete with locknut
- Zero Halogen polyamide 6
- Neoprene seal
- Protection class to IP68/5 bar
- Temperature range: -30°C up to 80°C permanent
- Operating temperature up to 150°C intermittent
- VDE approved
- Available in: Black, Grey, Red & White

Thread	Cable Diameter	Length of Thread	Width Across Flats
<b>Cable Glands</b>			
M12	4.0 – 6.5mm	8 mm	15mm
M16	5.0 – 10.0mm	10mm	22mm
M20	6.0 – 12.0mm	10mm	24mm
M20 +	10.0 – 14.0mm	10mm	27mm
M25	13.0 – 18.0mm	10mm	33mm
M32	18.0 – 25.0mm	18mm	42mm
M40	22.0 – 32.0mm	18mm	53mm
M50	30.0 – 38.0mm	18mm	60mm

338556

Grey	Order Code	Size	1+	Price Each	3+
	117-4592	M12	0.41		0.39
	117-4593	M16	0.42		0.40
	117-4594	M20	0.47		0.45
	117-4595	M20 +	0.56		0.54
	117-4596	M25	0.79		0.77
	117-4597	M32	1.44		1.38
	117-4598	M40	3.06		2.93
	117-4600	M50	4.85		4.66
<b>Black</b>	117-4601	M12	0.41		0.39
	117-4602	M16	0.42		0.40
	117-4603	M20	0.47		0.45
	117-4604	M20 +	0.56		0.54

**Cable Glands - continued**

**Nylon Metric (Anti-Vibration) Cable Glands & Locknuts - continued**

	Order Code	Size	1+	3+	Price Each
Black	117-4606●	M25	0.79	0.77	
	117-4607●	M32	1.44	1.38	
	117-4608●	M40	2.79	2.65	
White	117-4614●	M16	0.44	0.42	
	117-4615●	M20	0.49	0.46	

**IP68 - Nylon - SKINTOP®**



- High performance compression cable glands in Silver Grey polyamide (RAL 7001)
- PG or Metric thread sizes
- Protection to **IP68** (5 bar)
- **VDE, CSA** and **SEV** approved

Operating temperature -20°C to +80°C

Mounting Thread Size	Cable Dia.	Mounting Thread Length	A/F Size Body	Mfrs. List No.	Order Code
PG7	2.5-6.5	8	15	53015000	117-8859
PG9	3.5-8	8	19	53015010	117-8860
PG11	4-10	8	22	53015020	117-8861
PG13.5	6-12	9	24	53015030	117-8862
PG16	9-14	10	27	53015040	117-8863
PG21	13-18	11	33	53015050	117-8864
PG29	14-25	11	42	53015060	117-8865
PG36	24-32	13	53	53015070	117-8867
M12 x 1.5	3.5-7	8	15	53111000	117-8868
M16 x 1.5	4.5-10	8	19	53111010	117-8869
M20 x 1.5	7-13	9	25	53111020	117-8870
M25 x 1.5	9-17	10	30	53111030	117-8871
M32 x 1.5	11-21	10	36	53111040	117-8872
M40 x 1.5	19-28	10	46	53111050	117-8873
M50 x 1.5	27-35	12	55	53111060	117-8874
M63 x 1.5	34-45	12	56	53111070	117-8875

231139

Thread Size	Order Code	Price Each			
		1+	10+	50+	100+
PG7	117-8859●	0.48	0.41	0.37	0.32
PG9	117-8860●	0.50	0.42	0.38	0.33
PG11	117-8861●	0.59	0.49	0.41	0.37
PG13.5	117-8862●	0.71	0.62	0.54	0.42
PG16	117-8863●	0.76	0.63	0.57	0.49
PG21	117-8864●	1.09	0.88	0.69	0.56
PG29	117-8865●	2.16	1.79	1.54	1.20
PG36	117-8867●	8.38	7.01	5.22	4.46
M12 x 1.5	117-8868●	0.59	0.52	0.43	0.39
M16 x 1.5	117-8869●	0.64	0.57	0.56	0.52
M20 x 1.5	117-8870●	0.67	0.64	0.61	0.59
M25 x 1.5	117-8871●	0.92	0.84	0.81	0.72
M32 x 1.5	117-8872●	1.98	1.78	1.53	1.39
M40 x 1.5	117-8873●	4.11	3.63	3.42	3.18
M50 x 1.5	117-8874●	9.94	8.87	7.88	6.53
M63 x 1.5	117-8875●	13.40	10.59	9.49	9.08

**Skintop® ST-HF-M**



**V0 - Halogen Free Cable Gland**



- Metric thread
- Body: Polyamide
- Colour: Light Grey (RAL7035)
- Protection class **IP68**
- Temperature range: -20°C to +100°C
- Self-extinguishing, no dripping
- Halogen free glands come in kits with the locknuts included
- **VDE, EN** approval



Thread Size	Clamping Range (mm) Min	Max	Gland A/F Size (mm)	Length (mm)	Thread Length (mm)	Nut A/F Size (mm)
M12 x 1.5	4	5.5	15	30	8	17
M16 x 1.5	4.5	9	19	34	8	22
M20 x 1.5	7	13	25	37	9	27
M25 x 1.5	9	17	30	40	10	34
M32 x 1.5	11	21	36	47	10	41

503083

10 Per Pack Thread Size	Order Code	Price Per Pack		
		1+	10+	25+
M12 x 1.5	155-4650●	7.81	7.59	7.19
M16 x 1.5	155-4651●	8.67	8.40	7.99
M20 x 1.5	155-4652●	10.44	10.12	9.62
M25 x 1.5	155-4653●	14.56	14.13	13.42
M32 x 1.5	155-4654●	39.80	38.60	36.65

**SKINTOP® KR1-M; K-M ATEX Black**



For explosion-hazard areas in accordance with ATEX 100a



K-M EExe II ATEX

KR1-M EExe II ATEX

Design and type corresponding to the proven SKINTOP® ST with multiple-start trapezoidal thread for quick installation and with patented vibration protection. This cable screw union was developed especially for use on electrical equipment in explosion-hazard areas to degree of protection "e". The SKINTOP® K-M are approved in accordance with DIN EN 50014 and EN 50019, and the tested characteristics include, in particular:

Cold impact resistance -20°C

Cable grip  
Ingress protection

Fields of use are appliances, machines and installations with enhanced safety in terms of ingress protection, for example in the chemical and petrochemical industry.

KR1-M EExe II ATEX is equipped with a reducing sealing insert which seals small external diameter cables and lines.

Mfrs. List No.	Thread M	Clamping range (mm)	Wrench size	C (mm)	D (mm)	Order Code
<b>KR1-M</b>						
54115215	M16 x 1.5	3.5-6	19	40	12	120-4370
54115225	M20 x 1.5	7-12	27	47	13	120-4372
<b>K-M</b>						
54115210	M16 x 1.5	7-9	19	34	8	120-4240
54115220	M20 x 1.5	7-13	25	37	9	120-4241
54115230	M25 x 1.5	11-17	30	40	10	120-4242

**Techn. data:**

Material: Polyamide (KR1-M halogenfree)  
 Colour: Black RAL9005, UV resistant  
 Temperature-range: -20°C to +75°C (+80°C: KR1-M)  
 Protection class: IP64 - 5 bar  
 Certification code: DMT 03 ATEX E 044X (K-M)  
 PTB01ATEX 3100X (KR1-M)

238931

Thread	Order Code	Price Each			
		1+	10+	50+	100+
<b>KR1-M EExe II ATEX</b>					
M16 x 1.5	120-4370●	1.36	1.25	1.16	1.08
M20 x 1.5	120-4372●	1.87	1.69	1.54	1.50
<b>K-M EExe II ATEX</b>					
M16 x 1.5	120-4240●	1.35	1.15	1.07	0.93
M20 x 1.5	120-4241●	1.73	1.46	1.36	1.24
M25 x 1.5	120-4242●	1.97	1.65	1.53	1.40

**Skintop® K-M EExe II ATEX Gland Blue**



SKINTOP® K-M ATEX is a special cable gland, made of polyamide. It is designed for use with electrical equipment in areas with risk of explosion which require class "e" security. (DIN / EN 50014 and DIN / EN 50019).

- Wide cable clamping range
- Protection class IP64
- Operating temperature -20°C to 80°C max
- Polyamide construction

Mounting thread size	Cable diameter	Mounting thread size	Cable diameter
M12 x 1.5	3 - 5.5mm	M20 x 1.5	7 - 13mm
M16 x 1.5	7 - 9mm	M25 x 1.5	11 - 17mm

Blue Mfrs. List No.	Size	Pack qty	Order Code	Price Per Pack	
				1+	5+
54115400	M12 x 1.5	50	128-6000●	67.81	61.64
54115410	M16 x 1.5	50	128-6001●	80.32	72.99
54115420	M20 x 1.5	50	128-6002●	69.52	63.19
54115430	M25 x 1.5	25	128-6003●	48.60	44.19

449345

Blue Mfrs. List No.	Size	Order Code	Price Each
			1+
54115400	M12 x 1.5	128-6056●	1.52
54115410	M16 x 1.5	128-6057●	1.60
54115420	M20 x 1.5	128-6058●	1.75
54115430	M25 x 1.5	128-6059●	1.94

Over 480,000 products online



SKINTOP® Mini Gland



SKINTOP® Mini is a cable gland made of nickel-plated brass, which guarantees the safe mounting of small diameter cables through its low installation height. The use is predominantly in signal transmission, data transfer, measurement, control technology as well as in medical technology and communications engineering.

- Safe mounting of cables with small diameters
- Operating temperature -30°C to 100°C max
- Protection class IP68 -5bar
- Nickel plated brass construction

Mfrs. List No.	Mounting thread size	Cable diameter	
52001860	M6	2 - 3mm	
52001880	M8	3.5 - 5.5mm	449346

Mfrs. List No.	Size	Order Code	Price Each
52001860	M6	120-4193●	1.49
52001880	M8	120-4194●	1.68

IP68 - Nylon - SKINTOP® Bellmouth



- Bellmouth compression cable glands in Silver Grey polyamide (RAL 7001)
  - PG thread size
  - Cable entry conforms to VDE 0730
  - Protection to IP68
- Operating temperature -20°C to +80°C

Mounting Thread Size	Cable Dia.	Mounting Thread Length	A/F Size Body	Mfrs. List No.	Order Code
PG9	3.5-8	8	19	53015410	117-8876
PG11	4-10	8	22	53015420	117-8877
PG13.5	5-12	9	24	53015430	117-8879
PG16	9-14	10	27	53015440	117-8881
PG21	13-18	11	33	53015450	117-8882

Thread Size	Order Code	1+	10+	50+	100+
PG9	117-8876●	0.83	0.72	0.64	0.59
PG11	117-8877●	0.94	0.80	0.69	0.62
PG13.5	117-8879●	1.00	0.84	0.78	0.71
PG16	117-8881●	1.14	0.95	0.86	0.80
PG21	117-8882●	1.46	1.27	1.16	1.07

SKINTOP® Nylon Locknuts



- PG or Metric thread sizes
- Moulded in glass fibre reinforced Silver Grey polyamide (RAL 7001)

Mounting Thread Size	A/F Size Body	Mfrs. List No.	Order Code	Mounting Thread Size	A/F Size Body	Mfrs. List No.	Order Code
PG7	19	53019000	117-8900	M12 x 1.5	17	53119000	117-8909
PG9	22	53019010	117-8901	M16 x 1.5	22	53119010	117-8911
PG11	24	53019020	117-8902	M20 x 1.5	26	53119020	117-8912
PG13.5	27	53019030	117-8903	M25 x 1.5	32	53119030	117-8913
PG16	30	53019040	117-8904	M32 x 1.5	41	53119040	117-8914
PG21	36	53019050	117-8905	M40 x 1.5	50	53119050	117-8915
PG29	46	53019060	117-8906	M50 x 1.5	60	53119060	117-8916
PG36	60	53019070	117-8907	M63 x 1.5	75	53119070	117-8917

Thread Size	Order Code	1+	10+	50+	100+
PG7	117-8900●	0.112	0.102	0.092	0.082
PG9	117-8901●	0.140	0.129	0.107	0.097
PG11	117-8902●	0.150	0.136	0.121	0.107
PG13.5	117-8903●	0.161	0.150	0.140	0.129
PG16	117-8904●	0.183	0.172	0.150	0.140
PG21	117-8905●	0.310	0.290	0.240	0.193
PG29	117-8906●	0.480	0.410	0.320	0.260
PG36	117-8907●	1.060	0.880	0.650	0.490
M12 x 1.5	117-8909●	0.280	0.270	0.200	0.173
M16 x 1.5	117-8911●	0.320	0.280	0.240	0.184

Thread Size	Order Code	1+	10+	50+	100+
M20 x 1.5	117-8912●	0.360	0.300	0.260	0.194
M25 x 1.5	117-8913●	0.380	0.310	0.270	0.210
M32 x 1.5	117-8914●	1.060	0.860	0.680	0.600
M40 x 1.5	117-8915●	2.020	1.780	1.470	1.160
M50 x 1.5	117-8916●	3.010	2.490	1.980	1.530
M63 x 1.5	117-8917●	3.300	2.650	2.210	1.820

SKINDICHT® Blanking Plug PG



- Used to close unwanted cable entry holes
- Moulded in Grey polyamide (RAL 7001) or nickel plated brass
- PG thread size

Mounting Thread Size	Mounting Thread Length	Polystyrene Mfrs. List No.	Order Code	Nickel plated Brass Mfrs. List No.	Order Code
PG7	6	52005949	117-9015	52002680	117-9025
PG9	6	52005950	117-9016	52003390	117-9026
PG11	6	52005960	117-9017	52003400	117-9027
PG13.5	6	52005970	117-9018	52003410	117-9028
PG16	6	52005980	117-9021	52003420	117-9029
PG21	8	52005990	117-9022	52003430	117-9030
PG29	8	52006000	117-9023	-	-
PG36	10	52006010	117-9024	-	-

Thread Size	Order Code	1+	10+	50+	100+
<b>Polystyrene</b>					
PG7	117-9015●	0.193	0.172	0.150	0.129
PG9	117-9016●	0.107	0.086	0.075	0.064
PG11	117-9017●	0.107	0.086	0.075	0.064
PG13.5	117-9018●	0.270	0.230	0.183	0.140
PG16	117-9021●	0.270	0.230	0.183	0.140
PG21	117-9022●	0.200	0.172	0.140	0.107
PG29	117-9023●	0.370	0.290	0.240	0.200
PG36	117-9024●	1.650	1.170	0.930	0.610
<b>Nickel Plated Brass</b>					
PG7	117-9025●	0.940	0.770	0.610	0.420
PG9	117-9026●	2.130	1.730	1.220	0.920
PG11	117-9027●	1.840	1.500	1.150	0.730
PG13.5	117-9028●	0.760	0.750	0.460	0.310
PG16	117-9029●	0.460	0.340	0.250	0.240
PG21	117-9030●	0.420	0.310	0.240	0.210

Blanking Plugs



SKINTOP® Click



- Unique click system for fast mounting
- Protection class IP68
- Operating temperature: -40°C to 100°C
- Polyamide construction

Blind plug with innovative CLICK system for fast installation in hardly accessible places. Perfect solution wherever threads previously cut must be closed. Developed especially for: Manufacturing of control cabinets, measurement, control and electrical applications, automation technology, plant, apparatus construction, control system construction.

Mounting Thread (mm)	Length (mm)	Wall Thickness (mm)
M16	28.5	1 - 2
M20	29.5	1 - 2
M25	30.5	1 - 2

Mfrs. List No.	Size	Pack qty	Order Code	Price Per Pack 1+	5+
<b>Grey</b>					
52109013	M16	50	150-4038●	70.01	66.57
52109014	M20	25	150-4039●	40.54	36.84
52109015	M25	25	150-4040●	45.74	41.58

Each Pack includes 1 removal tool

Mfrs. List No.	Size	Order Code	Price Each 1+
<b>Grey</b>			
52109013	M16	150-4201●	1.82
52109014	M20	150-4202●	2.10
52109015	M25	150-4203●	2.38
<b>Removal Tool</b>			
53112697	M16	150-4205	3.04
53112698	M20	150-4206	3.40
53112699	M25	150-4207	3.67

## Cable Glands - continued

## Skindicht® Blanking Plug

Metric



- Used to close unwanted cable entry holes
- Moulded in Grey polyamide (RAL 7001) or nickel plated brass
- Metric thread size

Mounting Thread Size	Polystyrene Mftrs.		Nickel plated Brass Mftrs.	
	List No.	Order Code	List No.	Order Code
M12 x 1.5	52006600	117-9037	52103100	117-9031
M16 x 1.5	52006610	117-9038	52103110	117-9033
M20 x 1.5	52006620	117-9039	52103120	117-9034
M25 x 1.5	52006630	117-9040	52103130	117-9035
M32	—	—	52103140	117-9036
M40 x 1.5	52006650	117-9041		

239133

Thread Size	Order Code	Price Each			
		1+	10+	50+	100+
<b>Polystyrene</b>					
M12 x 1.5	117-9037	0.130	0.114	0.113	0.105
M16 x 1.5	117-9038	0.163	0.153	0.143	0.133
M20 x 1.5	117-9039	0.163	0.153	0.143	0.133
M25 x 1.5	117-9040	0.260	0.240	0.210	0.184
M40 x 1.5	117-9041	0.850	0.790	0.780	0.680
<b>Nickel Plated Brass</b>					
M12	117-9031	0.380	0.360	0.340	0.320
M16	117-9033	0.530	0.480	0.470	0.410
M20	117-9034	0.590	0.530	0.520	0.450
M25	117-9035	1.230	1.110	1.090	0.990
M32	117-9036	1.920	1.750	1.720	1.520

2

## Skindicht MA-M, MA-PG and ZS-M



## Skindicht MA-M/PG

- Brass adapters metric to PG
- To convert a metric outer thread to a PG inner thread

## Skindicht MA-PG/M

- To convert a PG outer thread to a metric inner thread

## Skindicht ZS-M

- To convert a metric outer thread to a PG inner thread
- With hexagonal flange

Mftrs. List No.	Outer Thread	Inner Thread	A/F Size	Order Code
<b>MA-M/PG</b>				
52104210	M20 x 1.5	PG9	—	117-8980
52104220	M25 x 1.5	PG11	—	117-8981
52104270	M40 x 1.5	PG21	—	117-8983
<b>MA-PG/M</b>				
52104493	PG11	M20 x 1.5	—	117-8984
52104494	PG13.5	M20 x 1.5	—	117-8985
52104495	PG16	M20 x 1.5	—	117-8986
52104497	PG21	M20 x 1.5	—	117-8987
52104498	PG21	M25 x 1.5	—	117-8988
52104499	PG21	M32 x 1.5	—	117-8989
52104500	PG29	M25 x 1.5	—	117-8991
52104502	PG29	M40 x 1.5	—	117-8992
<b>ZS-M</b>				
52104360	M20 x 1.5	PG11	22	124-2474
52104370	M20 x 1.5	PG13.5	22	124-2475
52104380	M20 x 1.5	PG16	24	124-2476

227253

Mftrs. List No.	Order Code	1+	10+	50+	100+
<b>MA-M/PG</b>					
52104210	117-8980	1.05	0.96	0.94	0.84
52104220	117-8981	1.10	1.01	0.99	0.89
52104270	117-8983	3.26	2.98	2.92	2.59
<b>MA-PG/M</b>					
52104493	117-8984	0.79	0.72	0.71	0.62
52104494	117-8985	0.79	0.72	0.71	0.62
52104495	117-8986	0.50	0.45	0.44	0.40
52104497	117-8987	0.79	0.72	0.71	0.62
52104498	117-8988	0.72	0.65	0.64	0.56
52104499	117-8989	1.56	1.43	1.41	1.26
52104500	117-8991	1.75	1.60	1.55	1.39
52104502	117-8992	2.58	2.36	2.32	2.08
<b>ZS-M</b>					
52104360	124-2474	0.53	0.47	0.45	0.43
52104370	124-2475	0.56	0.51	0.49	0.43
52104380	124-2476	0.56	0.51	0.49	0.43

Over 480,000 products online



## Skintop STR



- Skintop STR with reducing seal insert
- Body: Polyamide
- Sealing: Neoprene
- Colour: Silver Grey (RAL7001)
- Protection class **IP68** (5 bar)
- Temperature range: -20°C to +80°C
- VDE, CSA approval
- Lock nuts not supplied

Mftrs. List No.	Thread	Cable Dia.	A/F Size	Order Code	Mftrs. List No.	Thread	Cable Dia.	A/F Size	Order Code
53015110	PG9	2-6	19	117-8942	53111100	M12	1-5	15	117-8951
53015120	PG11	2-7	22	117-8943	53111110	M16	2-7	19	117-8952
53015130	PG13.5	4-9	24	117-8944	53111120	M20	5-10	25	117-8953
53015140	PG16	6-12	27	117-8946	53111130	M25	6-13	30	117-8954
53015150	PG21	9-16	33	117-8947	53111140	M32	7-15	36	117-8955
53015160	PG29	11-20	42	117-8948	53111150	M40	15-23	46	117-8956
53015170	PG36	17-26	53	117-8949	53111160	M50	22-29	55	117-8958
53015180	PG42	22-31	60	117-8950	53111170	M63	28-39	66	117-8959

227254

Mftrs. List No.	Order Code	1+	10+	50+	100+
53015110	117-8942	0.40	0.35	0.33	0.26
53015120	117-8943	0.43	0.40	0.39	0.35
53015130	117-8944	0.48	0.44	0.43	0.38
53015140	117-8946	0.48	0.44	0.43	0.38
53015150	117-8947	0.69	0.63	0.62	0.54
53015160	117-8948	1.34	1.22	1.19	1.05
53015170	117-8949	5.25	4.81	4.71	4.19
53015180	117-8950	8.62	7.46	7.06	6.43
53111100	117-8951	0.39	0.35	0.34	0.32
53111110	117-8952	0.40	0.37	0.35	0.33
53111120	117-8953	0.56	0.51	0.49	0.43
53111130	117-8954	0.85	0.80	0.78	0.68
53111140	117-8955	1.60	1.46	1.44	1.29
53111150	117-8956	3.36	3.06	3.01	2.68
53111160	117-8958	7.84	7.15	7.02	6.26
53111170	117-8959	11.21	10.24	10.05	8.92

## High Temperature Nickel Steel Gland



The SKINDICHT® CN-M is a chromium nickel steel cable gland with metric connecting thread and VITON® seal, specially designed for use under tough conditions, e.g. in the pharmaceutical, petrochemical industry (aggressive media) as well as offshore-, dairy- and food area. Suitable counter nut SKINDICHT® SM M CrNi.

## The gland make-up consists of:

Dome nut	Chrome-nickel-steel, material no. 1.4305 (V2A)
Body	Chrome-nickel-steel, material no. 1.4305 (V2A)
Seal	FPM
O-ring	FPM

## Technical features:

Connecting thread	M12 x 1.5 up to M63 x 1.5 to DIN 60 423
IP protection	IP 68
Clamping range	3.5 mm up to 52.0 mm
Temperature range	-25°C to +200°C
Tensile strength	EN 50262, Type A

515322

10 Per Pack Size	Cable Diameter	Length	Order Code	1+	5+	10+
<b>Gland</b>						
M12 x 1.5	3.5 - 5mm	27mm	161-7802	347.66	330.28	313.76
M12 x 1.5	5.0 - 6.5mm	27mm	161-7803	347.66	330.28	313.76
M12 x 1.5	6.5 - 8mm	27mm	161-7804	347.66	330.28	313.76
M16 x 1.5	8.0 - 10.5mm	30mm	161-7805	425.27	404.01	383.83
M20 x 1.5	11.0 - 15mm	31mm	161-7806	488.80	464.37	441.14
M25 x 1.5	16.0 - 20.5mm	36mm	161-7807	671.01	637.46	605.59
M32 x 1.5	21.0 - 25.5mm	41mm	161-7808	1,001.46	951.40	903.81
<b>Locknut</b>						
M12 x 1.5			161-7809	98.05	93.15	88.50
M16 x 1.5			161-7810	130.62	124.07	117.87
M20 x 1.5			161-7811	134.45	127.72	121.34
M25 x 1.5			161-7812	177.67	168.79	160.35
M32 x 1.5			161-7814	196.02	186.22	176.92

## Technical information at your fingertips



Over 352,000 technical datasheets available online.

Visit [www.farnell.co.uk](http://www.farnell.co.uk) and look for the Tech Info heading in your search results.



### Demanding Applications Gland with Viton **LAPP CABLE** Sealing Cone



The SKINDICHT® SHV-M-VITON® cable gland is a water proof special gland. The special conical sealing element of VITON® extends through the entire gland and thus guarantees excellent resistance to pressure and strain relief. The VITON® sealing cone is of outstanding resistance to oils and biological oils, solvents and chemicals at high temperatures.

The gland make-up consists of:

Gland body	Nickel-plated brass
Cap	Nickel-plated brass
Sealing cone	Elastomere (FKM)
Pressure cone	Nickel-plated brass
Washer	Galvanized steel
O-ring	Elastomere (FKM)

Technical features:

Connecting thread	M12x1.5 - M32x1.5 to DIN 60 423
IP protection	IP 68 at 10 bar water pressure, EN 60 529
Temperature range	- 20°C to + 200°C



10 Per Pack		Price Per Pack				
Size	Cable Diameter	Length	Order Code	1+	5+	10+
M12 x 1.5	3.8 - 4.8mm	26.0mm	<b>161-7790</b>	27.87	26.42	25.14
M16 x 1.5	4.8 - 5.8mm	27.5mm	<b>161-7791</b>	29.89	28.40	26.97
M16 x 1.5	5.8 - 6.8mm	27.5mm	<b>161-7792</b>	30.28	28.77	27.34
M20 x 1.5	5.8 - 6.8mm	31.0mm	<b>161-7793</b>	46.78	44.44	42.22
M20 x 1.5	6.8 - 8.8mm	31.0mm	<b>161-7794</b>	44.14	41.93	39.84
M20 x 1.5	8.5 - 10.8mm	32.5mm	<b>161-7796</b>	44.14	41.93	39.84
M20 x 1.5	6.8 - 8.8mm	32.5mm	<b>161-7797</b>	44.14	41.93	39.84
M20 x 1.5	10.8 - 12.8mm	34.5mm	<b>161-7798</b>	44.14	41.93	39.84
M20 x 1.5	13.8 - 14.8mm	34.5mm	<b>161-7799</b>	44.14	41.93	39.84
M25 x 1.5	15.8 - 17.8mm	38.0mm	<b>161-7800</b>	75.01	71.26	67.70

515321

### Saddle Clamp Gland **LAPP CABLE**



The SKINDICHT® SKZ a double cleat strain-relieving cable gland equipped with a centre section. The arrangement of the double cleat provides a wide clamping range with central cable clamping. The seal is achieved by a recessed sealing ring and an O-ring fitted onto the connecting thread. This cable gland is particularly suitable for use in plugs, switches and control panels.

The gland make-up consists of:

Gland body	Nickel-plated brass
Cap with double cleat	Nickel-plated brass
Recessed sealing ring	Elastomere
Washer	Galvanized steel
O-ring	Elastomere

Technical features:

Connecting thread	M16 - M32 EN 50 262
IP protection	IP 55, to EN 60 529
Temperature range	- 20°C to + 80°C

515314

10 Per Pack		Price Per Pack				
Size	Cable Diameter	Length	Order Code	1+	5+	10+
M16 x 1.5	5 - 8mm	29.0mm	<b>161-7778</b>	28.01	26.62	25.29
M20 x 1.5	7 - 12mm	30.0mm	<b>161-7779</b>	31.09	29.54	28.05
M20 x 1.5	11 - 13mm	33.5mm	<b>161-7780</b>	70.50	66.99	63.64
M20 x 1.5	13 - 15mm	34.5mm	<b>161-7781</b>	77.69	73.83	70.14
M25 x 1.5	16 - 19.3mm	41.0mm	<b>161-7782</b>	84.88	80.64	76.60

### Earthing Gland with Strain Relief **LAPP CABLE**



SKINDICHT® SRE are cable glands for screened cables. The earthing sleeve pushed under the braiding ensures a reliable IP protection and EMC compliance. The neoprene sleeve guarantees sealing and kink protection, the cleat provides reliable strain relief.

The cable gland make-up consists of:

Gland body	Nickel-plated brass
Cleat with thread screws	Nickel-plated brass
Anti kink sleeve	Elastomere
Earthing bush	Bright brass
O-ring	Elastomere

Technical features:

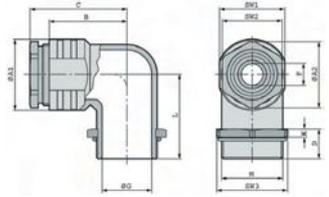
Connecting thread	M20 - M40 EN 50 262
IP protection	IP 65, to EN 60 529
Temperature range	- 20°C to + 80°C

515320

10 Per Pack		Price Per Pack				
Size	Cable Diameter	Length	Order Code	1+	5+	10+
M20 x 1.5	7.5 - 9mm	59.5mm	<b>161-7784</b>	58.21	55.29	52.53
M20 x 1.5	9 - 11mm	59.5mm	<b>161-7785</b>	62.18	59.07	56.13
M20 x 1.5	11 - 13mm	64.5mm	<b>161-7786</b>	62.44	59.32	56.36
M20 x 1.5	13.5 - 15mm	64.5mm	<b>161-7787</b>	62.69	59.56	56.59
M25 x 1.5	15 - 17mm	78.0mm	<b>161-7788</b>	82.66	78.54	74.60
M25 x 1.5	17 - 19mm	78.0mm	<b>161-7789</b>	101.75	96.66	91.82

### 90° Angled Cable Gland

### **New** **LAPP CABLE**



The SKINDICHT® RWV are cast zinc cable glands with a 90° elbow. The locknut enables the angle gland to be secured in any position.

The gland make-up consists of:

Angle housing	Cast zinc
Washer	Galvanized steel
Pressure screw	Nickel-plated brass
Locknut	Nickel-plated brass
Indented sealing ring	Elastomere
O-ring	Elastomere

Technical features:

Connecting thread	M12 - M40 EN 60 423
IP protection	IP 55 to EN 60 529
Temperature range	- 20°C to + 100°C

Mfrs. List No.	Thread	F ∅	SW1	∅A1	SW2	∅A2	SW3	C	D	∅G	K	L
52107800	M12 x 1.5	5	14	16	12	13.2	17	26.1	11.5	8	5	20.5
52107810	M16 x 1.5	3 - 9	18	20	16	17.6	22	28.6	11.5	12	5	23.5
52107820	M20 x 1.5	4 - 13	22	24	20	22.2	27	35.1	12.5	15	5	28.5
52107830	M25 x 1.5	8.5 - 17.5	27	29	25	27.5	32	38.1	13.5	20	5	31
52107840	M32 x 1.5	16 - 25	42	36	32	35.2	41	44.6	13.5	27	5	36

515323

10 Per Pack		Price Per Pack		
Mfrs. List No.	Order Code	1+	5+	10+
52107800	<b>161-7815</b>	59.14	56.19	53.39
52107810	<b>161-7816</b>	76.27	72.45	68.83
52107820	<b>161-7817</b>	93.05	88.39	83.97
52107830	<b>161-7818</b>	96.14	91.33	86.75
52107840	<b>161-7819</b>	124.96	118.71	112.78

### Skintop MSR / MSR-M

### **LAPP CABLE**



- Brass glands with reducing seal insert
- Nickel plated
- Sealing ring Neoprene
- O/Ring Pebunan
- Protection class IP68 (5 bar)
- Temperature range: -30°C to +100°C

Mfrs. List No.	Thread	Cable Dia. A/F	Size	Order Code	Mfrs. List No.	Thread	Cable Dia. A/F	Size	Order Code
52015770	PG7	2-5	14	117-8960	53112100	M12 x 1.5	5-16	16	117-8971
52015780	PG9	2-6	17	117-8961	53112110	M16 x 1.5	7-20	20	117-8972
52015790	PG11	3-7	20	117-8962	53112120	M20 x 1.5	10-24	24	117-8974
52015800	PG13	5-9	22	117-8963	53112130	M25 x 1.5	13-29	29	117-8975
52015810	PG16	6-13	24	117-8964	53112140	M32 x 1.5	15-36	36	117-8976
52015820	PG21	8-16	30	117-8965	53112150	M40 x 1.5	23-45	45	117-8977
52015830	PG29	10.5-20	40	117-8966	53112160	M50 x 1.5	29-54	54	117-8978
52015831	PG36	19-26	50	117-8967	53112170	M63 x 1.5	39-67	67	117-8979
52015832	PG42	24-31	57	117-8968					

227255

Mfrs. List No.	Order Code	1+	10+	50+	100+
52015770	<b>117-8960</b>	0.93	0.85	0.84	0.75
52015780	<b>117-8961</b>	1.11	1.01	0.99	0.88
52015790	<b>117-8962</b>	1.41	1.29	1.26	1.11
52015800	<b>117-8963</b>	1.47	1.35	1.33	1.17
52015810	<b>117-8964</b>	1.47	1.35	1.33	1.17
52015820	<b>117-8965</b>	2.27	2.13	2.00	1.88
52015830	<b>117-8966</b>	3.49	3.17	2.95	2.74
52015831	<b>117-8967</b>	6.71	6.12	5.67	5.32
52015832	<b>117-8968</b>	9.87	9.02	8.83	7.86
53112100	<b>117-8971</b>	1.35	1.24	1.22	1.07
53112110	<b>117-8972</b>	1.70	1.60	1.50	1.41
53112120	<b>117-8974</b>	1.56	1.43	1.41	1.26
53112130	<b>117-8975</b>	4.65	4.19	3.96	3.73
53112140	<b>117-8976</b>	8.12	7.39	7.24	6.44
53112150	<b>117-8977</b>	7.50	6.82	6.34	5.94
53112160	<b>117-8978</b>	16.96	15.52	14.33	12.64
53112170	<b>117-8979</b>	19.24	17.68	17.20	15.31

### Express checkout



With no need to re-enter your details, returning customers can now buy products even faster - order online today at [www.farnell.co.uk](http://www.farnell.co.uk)



Cable Glands - continued

Skintop MS-M ATEX  
Brass Gland to ATEX 100a



Specifically for use with electrical equipment in explosion-hazard areas to enhanced safety "e", in particular in the chemical and petrochemical industries. The cable and line entry for the SKINTOP® MS-M ATEX is tested by IBEXU to: DIN EN 50014:2000  
DIN EN 50019:1996  
and is licensed for a continuous temperature from -30°C to +90°C with a dynamic load.

The design and configuration correspond to the proven SKINTOP® MS and are distinguished by particular robustness, a large variable clamping range and high functional reliability owing to a permanently locked plastic clamping body (rotation protection).

Mfrs. List No.	Thread	Clamping range (mm)	Wrench size (mm)	C (mm)	D (mm)	Order Code
53112700	M12 x 1.5	3.0 - 7.0	16	26.5	6.5	120-4374
53112710	M16 x 1.5	4.5 - 10.0	20	33.0	7.0	120-4375
53112720	M20 x 1.5	7.0 - 13.0	24	37.0	8.0	120-4376
53112730	M25 x 1.5	9.0 - 17.0	29	38.5	8.0	120-4377
53112740	M32 x 1.5	11.0 - 21.0	36	45.5	9.0	152-4089
53112750	M40 x 1.5	19.0 - 28.0	45	48.0	9.0	120-4378
53112760	M50 x 1.5	26.0 - 35.0	54	55.5	10.0	120-4379

334896

Thread	Mfrs. List No.	Order Code	1+	10+	50+	100+
M12 x 1.5	53112700	120-4374	2.73	2.49	2.30	2.18
M16 x 1.5	53112710	120-4375	2.99	2.67	2.49	2.37
M20 x 1.5	53112720	120-4376	4.07	3.70	3.37	3.20
M25 x 1.5	53112730	120-4377	4.69	4.23	3.91	3.75
M32 x 1.5	53112740	152-4089	8.37	7.44	6.90	6.62
M40 x 1.5	53112750	120-4378	11.09	10.00	9.27	8.85
M50 x 1.5	53112760	120-4379	17.55	15.99	14.62	14.00

Skindicht® SM  
Locknuts



2



- Nickel plated brass locknut to suit all brass glands

Mfrs. List No.	Thread	A/F Size (mm)	Thickness (mm)	Order Code	Mfrs. List No.	Thread	A/F Size (mm)	Thickness (mm)	Order Code
52003490	PG7	15	2.8	117-8918	52103000	M12 x 1.5	15	3	117-8934
52003500	PG9	18	2.8	117-8919	52103010	M16 x 1.5	19	3	117-8935
52003510	PG11	21	3	117-8920	52103020	M20 x 1.5	24	3.5	117-8936
52003520	PG13.5	23	3	117-8922	52103030	M25 x 1.5	30	4	117-8937
52003530	PG16	26	3	117-8923	52103040	M32 x 1.5	36	4	117-8938
52003540	PG21	32	3.5	117-8924	52103050	M40 x 1.5	46	5	117-8939
52003550	PG29	41	4	117-8925	52103060	M50 x 1.5	60	5	117-8940
52003560	PG36	51	5	117-8926	52103070	M63 x 1.5	70	5	117-8941
52003570	PG42	60	5	130-7379					

227256

Thread	Order Code	1+	10+	50+	100+
PG7	117-8918	0.540	0.450	0.350	0.270
PG9	117-8919	0.690	0.610	0.420	0.320
PG11	117-8920	0.880	0.710	0.560	0.370
PG13.5	117-8922	0.790	0.650	0.490	0.340
PG16	117-8923	0.580	0.470	0.360	0.270
PG21	117-8924	2.160	1.780	1.310	0.950
PG29	117-8925	0.910	0.730	0.560	0.410
PG36	117-8926	1.250	1.020	0.760	0.530
PG42	130-7379	1.150	1.070	1.050	1.030
M12 x 1.5	117-8934	0.340	0.290	0.184	0.153
M16 x 1.5	117-8935	0.360	0.310	0.184	0.153
M20 x 1.5	117-8936	0.390	0.340	0.200	0.184
M25 x 1.5	117-8937	0.670	0.580	0.360	0.320
M32 x 1.5	117-8938	0.990	0.830	0.530	0.430
M40 x 1.5	117-8939	1.720	1.440	0.910	0.770
M50 x 1.5	117-8940	4.520	3.830	2.400	2.010
M63 x 1.5	117-8941	4.960	4.190	2.650	2.210

Skindicht® SM-PE  
Locknuts



- Nickel plated brass locknut to suit all brass glands
- Suitable for the EMC gland MS-SC
- With teeth cutting through coatings and lacquer layers to ensure an electrical contact to the metal

Mfrs. List No.	Thread	A/F Size (mm)	Thickness (mm)	Order Code
52103200	PG7	15	4.7	117-8927
52103210	PG9	18	4.7	117-8928
52103220	PG11	21	4.7	117-8929
52103230	PG 13.5	23	4.7	117-8930
52103240	PG16	26	4.7	117-8931
52103250	PG21	32	5.2	117-8932
52003570	PG42	60	5	130-7379

227257

Thread	Order Code	1+	10+	50+	100+
PG7	117-8927	0.75	0.63	0.39	0.34
PG9	117-8928	1.27	1.06	0.67	0.57
PG11	117-8929	1.29	1.08	0.68	0.58
PG 13.5	117-8930	1.35	1.13	0.71	0.60
PG16	117-8931	1.41	1.20	0.75	0.62
PG21	117-8932	1.94	1.62	1.04	0.86
PG42	130-7379	1.15	1.07	1.05	1.03

SKINDICHT® BL-M



Blanking Plugs, Metric Thread



Brass blind plugs with a metric thread for ensuring IP68 protection for unused borings.

334899

Thread M	Outer Ø (mm)	Order Code	1+	10+	50+	100+
M12 x 1.5	17.8	120-4380	0.83	0.76	0.73	0.68
M16 x 1.5	22.0	120-4382	0.98	0.90	0.85	0.82
M20 x 1.5	26.4	120-4383	1.30	1.18	1.13	1.08
M40 x 1.5	49.5	120-4386	3.63	3.34	3.20	3.05

SKINDICHT® MINI  
Mini Cable Glands



- For applications which require low installation height and safe mounting of cables with small diameters, e.g. proximity switches and sensors
- Large clamping range
- Metric thread
- Body material: nickel plated brass
- Sealing ring: Elastomere
- Operating temperature: -30°C to +80°C
- Protection: IP68

Mfrs. List No.	Thread	Clamping Range (mm)	SW (mm)	C (mm)	D (mm)	Order Code
52001860	M6	2-3	9	19.5	5	120-4193
52001880	M8	3.5-5.5	11	20.5	5	120-4194

238945

Thread	Order Code	1+	10+	50+	100+
M6	120-4193	1.49	1.35	1.26	1.14
M8	120-4194	1.68	1.65	1.62	1.57

Skintop® MS-SC



- EMC safe cable glands
- Suitable for all screened cables
- Contact blades give a quick self-centering shielding

- Body: Brass Nickel plated
- O-Ring: Perbunan
- Protection class IP68

Mfrs. List No.	Thread	Insulation-Ø (mm)	Shielding-Ø (mm)	Order Code
53112210	PG9	4-7.5	4	117-8893
53112220	PG11	4-10	4	117-8894
53112230	PG 13.5	5-12	4	117-8895
53112240	PG16	8-14	6	117-8896
53112250	PG21	11-17.5	8	117-8897
53112260	PG29	16-25	13	117-8898

227258

Thread	Order Code	Price Each			
		1+	10+	50+	100+
PG9	117-8893	4.45	3.02	2.85	2.36
PG11	117-8894	4.94	3.36	3.14	2.61
PG 13.5	117-8895	5.48	3.75	3.52	2.92
PG16	117-8896	5.73	3.91	3.66	3.05
PG21	117-8897	8.40	5.68	5.35	4.45
PG29	117-8898	12.80	8.68	8.17	6.79

Skintop® MS and MS-M



- Brass glands
- Nickel plated
- Sealing ring Neoprene
- O - Ring Pebunan
- Protection class IP68 (5 bar)
- Temperature range: -30°C to +100°C

Mftrs. List No.	Thread	Cable Dia.	A/F Size	Order Code
52015720	PG11	4-10	20	117-8883
52015730	PG13.5	5-12	22	117-8884
53112010	M16 x 1.5	4.5-10	20	117-8885
53112020	PG20	7-13	24	117-8886
53112030	M25 x 1.5	11-17	29	117-8887
53112040	M32 x 1.5	11-21	36	117-8888
53112050	M40 x 1.5	19-28	45	117-8889
53112060	M50 x 1.5	27-35	54	117-8890
53112070	M63 x 1.5	34-45	67	117-8892

434587

Mftrs. List No.	Order Code	1+	10+	50+	100+
52015720	117-8883	2.20	2.01	1.88	1.65
52015730	117-8884	2.35	2.16	2.01	1.77
53112010	117-8885	3.59	2.76	2.64	2.22
53112020	117-8886	3.93	3.64	3.55	3.22
53112030	117-8887	5.20	4.10	3.88	3.39
53112040	117-8888	9.03	7.17	6.72	5.87
53112050	117-8889	14.19	11.20	10.54	9.08
53112060	117-8890	30.74	24.44	22.87	19.76
53112070	117-8892	38.06	29.64	28.36	23.80

IP68 - Nickel Plated Brass - 'Perfect'

Dome Top



A range of high strength compression glands manufactured in nickel plated brass with either PG or Metric thread. Fully insulated Neoprene cable seal and Pebunan O-ring seal on external fixing thread provide protection to IP68.

- Supplied complete with locknut
- Wide clamping range available

Operating temperature -30°C to +100°C

Mounting Thread Size	Cable Diameter	Mounting Thread Length	Body	A/F Size	Locknut	Order Code
PG7	3-6.5	5	14	15	15	116-8795
PG9	4-8	6	17	18	18	116-8796
PG11	5-10	6	20	21	21	116-8797
PG13.5	6-12	6.5	22	23	23	116-8798
PG16	10-14	6.5	24	26	26	116-8799
M12 x 1.5	3-6	10	14	15	15	116-8801
M16 x 1.5	5-9	10	17	19	19	116-8802
M20 x 1.5	8-13	10	22	24	24	116-8803
M25 x 1.5	11-17	11	27	30	30	116-8804

208014

Thread Size	Order Code	1+	10+	50+	100+	500+
PG7	116-8795	1.87	1.84	1.72	1.69	1.57
PG9	116-8796	2.40	2.34	2.19	2.16	2.02
PG11	116-8797	2.83	2.73	2.58	2.53	2.36
PG13.5	116-8798	3.03	2.95	2.78	2.71	2.57
PG16	116-8799	2.51	2.45	2.30	2.25	2.11
M12 x 1.5	116-8801	2.03	1.94	1.70	1.53	1.42
M16 x 1.5	116-8802	3.48	3.30	2.94	2.62	2.46
M20 x 1.5	116-8803	4.11	3.85	3.47	3.11	2.90
M25 x 1.5	116-8804	6.23	5.90	5.26	4.74	4.47

HSK-M-Ex Cable Glands



- Nickel plated brass glands
- Buna-N / FPM seal
- Buna-N / FPM O-ring
- Protection class IP69K
- Temperature range: -20°C to 95°C

Mftrs. List No.	Thread	Cable Dia. (mm)	A/F Size (mm)
1610120050	M12 x 1.5	3 - 6.5	14
1610160051	M16 x 1.5	2 - 6	17 / 19
1610161150	M16 x 1.5	6 - 10	20
1610200050	M20 x 1.5	6 - 12	22

1610201650	M20 x 1.5	10 - 14	24
1610250050	M25 x 1.5	14 - 18	30
1610250051	M25 x 1.5	10 - 16	30
1610320050	M32 x 1.5	20 - 25	40
1610320051	M32 x 1.5	13 - 20	40
1610400050	M40 x 1.5	22 - 32	50
1610400051	M40 x 1.5	20 - 26	50

526899

Mftrs. List No.	Thread	Qty	Order Code	Price Each		
				1+	5+	10+
<b>Gland</b>						
1610120050	M12	50	167-8040	136.36	132.27	128.30
1610160051	M16	50	167-8041	150.19	145.68	141.31
1610161150	M16	50	167-8042	211.62	205.27	199.11
1610200050	M20	50	167-8043	175.56	170.29	165.18
1610201650	M20	50	167-8044	272.44	264.27	256.34
1610250050	M25	25	167-8045	135.49	131.43	127.49
1610250051	M25	25	167-8046	136.67	132.57	128.59
1610320050	M32	25	167-8047	209.38	203.10	197.01
1610320051	M32	25	167-8049	210.34	204.03	197.91
1610400050	M40	10	167-8051	134.28	130.25	126.34
1610400051	M40	10	167-8052	136.80	132.70	128.72
<b>Locknut</b>						
1161200050	M12	100	167-8053	8.74	8.48	8.23
1161160050	M16	100	167-8054	9.18	8.90	8.63
1161200050	M20	100	167-8055	10.98	10.65	10.33
1161250050	M25	100	167-8056	19.82	19.23	18.65
1161320050	M32	50	167-8057	12.60	12.22	11.85
1161400050	M40	50	167-8058	22.79	22.11	21.45

HSK-M-EMV-D Cable Glands



- Nickel plated brass glands
- Buna-N seal
- Buna-N O-ring
- Protection class IP69K
- Temperature range: -40°C to 100°C

Mftrs. List No.	Thread	Cable Dia. (mm)	AF Size (mm)
1631120050	M12 x 1.5	3 - 6.5	14
1631160050	M16 x 1.5	5 - 10	20
1631201350	M20 x 1.5	6 - 12	22
1631200050	M20 x 1.5	10 - 14	24
1631250050	M25 x 1.5	30 - 18	30
1631320050	M32 x 1.5	18 - 25	40
1631400050	M40 x 1.5	24 - 32	50

526902

Mftrs. List No.	Thread	Qty	Order Code	Price Each		
				1+	5+	10+
<b>Gland</b>						
1631120050	M12	50	167-8059	195.94	190.06	184.36
1631160050	M16	50	167-8060	239.12	231.95	224.99
1631201350	M20	50	167-8062	258.05	250.31	242.80
1631200050	M20	50	167-8063	277.76	269.43	261.35
1631250050	M25	25	167-8064	203.14	197.05	191.14
1631320050	M32	25	167-8065	467.18	453.16	439.57
1631400050	M40	10	167-8066	383.73	372.22	361.05
<b>Locknut</b>						
1167120050	M12	50	167-8067	51.41	49.87	48.37
1167160050	M16	50	167-8068	54.21	52.58	51.00
1167200050	M20	50	167-8069	56.56	54.86	53.21
1167250050	M25	50	167-8070	76.10	73.82	71.61
1167320050	M32	25	167-8071	53.59	51.98	50.42
1167400050	M40	25	167-8072	67.70	65.67	63.70

IP68-EMC Nickel Plated Brass - 'Perfect'

Dome Top



- High EMC performance
- Patented shielding contact design
- EMC locknuts with cutting points maintain shielding continuity
- Simple, fast preparation and installation
- PG or Metric threads
- IP68 rating

Operating Temperature -20°C to +100°C

Mounting Thread Size	Cable Diameter	Mounting Thread Length	Body	A/F Size Locknut	Order Code
PG7	3-6.5	5	14	15	116-8751
PG9	4-8	6	17	18	116-8752
PG11	5-10	6	20	21	116-8753
PG13.5	6-12	6.5	22	23	116-8754
PG16	10-14	6.5	24	26	116-8755
PG21	13-18	7	30	32	116-8756
M12 x 1.5	3-6	10	14	15	116-8758
M16 x 1.5	5-9	10	17	19	116-8759
M20 x 1.5	8-13	10	22	24	116-8760
M25 x 1.5	11-17	11	27	30	116-8761
M32 x 1.5	15-21	13	34	36	116-8762



**Cable Glands - continued**

**IP68-EMC Nickel Plated Brass - 'Perfect' - continued**

Dome Top - continued

208285

Thread Size	Order Code	1+	10+	50+	100+	500+
PG7	116-8751	3.83	3.50	3.14	3.06	2.87
PG9	116-8752	4.16	3.82	3.42	3.33	3.11
PG11	116-8753	4.73	4.35	3.85	3.78	3.52
PG13.5	116-8754	5.02	4.59	4.11	4.02	3.74
PG16	116-8755	5.71	5.22	4.67	4.57	4.26
PG21	116-8756	7.86	7.21	6.44	6.32	5.85
M12 x 1.5	116-8758	3.89	3.55	3.22	3.11	2.91
M16 x 1.5	116-8759	4.16	3.83	3.42	3.33	3.11
M20 x 1.5	116-8760	4.73	4.35	3.85	3.78	3.52
M25 x 1.5	116-8761	6.79	6.12	5.22	5.09	4.73
M32 x 1.5	116-8762	11.12	10.21	9.12	8.91	8.29

**IP66 - CXT Brass**



Light duty industrial brass compression glands intended for use with flexible braided power control cables, e.g. 'CY' or 'SY' types. Supplied in two gland kit form comprising two glands, braid clamp washers, galvanised steel locknuts and cable entry seals providing protection to IP66.

Operating Temperature -10°C to +90°C

Gland Size Ref	Mounting Thread Size	Mounting Thread Length	Cable Diameter		Order Code
			Min.	Max.	
20S	M20	15	6.2	11.7	297-823
20	M20	15	6.9	14	297-835
25	M25	15	10.6	20	297-847

208058

Gland Size Ref.	Mftrs. List No.	Order Code	Price Per Kit			
			1+	5+	10+	25+
20S	CXT-20S	297-823	9.23	8.76	8.25	7.97
20	CXT-20	297-835	11.05	10.28	9.59	8.97
25	CXT-25	297-847	13.47	12.80	12.15	11.49

**Through Shield EMC Cable Glands**



- Cable shielded through panel up to point of termination
- Stainless steel contact spring for shield connection
- Quick and easy installation
- Temperature range -20°C to +100°C
- IP68
- Standard or cutting locknuts available separately

This range of through shield EMC glands are intended for use in electrically noisy environments where shielded cable must be used due to high levels of EMI. Unlike EMC glands that terminate the cable shield at the point of panel entry, these glands utilise a spring contact to earth the shield as it passes through the panel or bulkhead. This allows the shield to be taken into the equipment and continue protecting the signal lines from any internally radiated emi. Typical environments where this may be required are electrical switching equipment where large voltage transients may occur generating local emc pulses. Their rugged construction also makes them ideally suitable for many other industrial process applications. The glands are supplied without locknuts but both standard and cutting locknuts for these glands are available elsewhere.

Mftrs. List No.	Thread Size	Cable Diameter		Length (mm)	Thread length (mm)
		Min (mm)	Max (mm)		
50.616 M/EMVDL	M16 x 1.5	5	9	35	10
50.620 M/EMVDL	M20 x 1.5	9	13	37.5	10
50.625 M/EMVDL	M25 x 1.5	11	16	40.5	11
50.632 M/EMVDL	M32 x 1.5	14	21	43	13

492486

Mftrs. List No.	Thread Size	Order Code	Price Each				
			1+	10+	50+	100+	500+
50.616 M/EMVDL	M16 x 1.5	151-6938	5.44	5.16	4.89	4.64	4.41
50.620 M/EMVDL	M20 x 1.5	151-6939	6.23	5.90	5.61	5.33	5.06
50.625 M/EMVDL	M25 x 1.5	151-6940	9.74	9.25	8.78	8.35	7.92
50.632 M/EMVDL	M32 x 1.5	151-6941	16.83	15.97	15.18	14.41	13.68

**Standard and Cutting Brass Locknuts**



- For use with standard and EMC brass glands
- Cutting locknuts ensure EMC compliance

These locknuts are intended for use with 'through-shield' or standard nickel plated brass glands. Both ranges are manufactured from high quality nickel plated brass and the cutting locknuts are especially useful for use with the EMC glands due to the cutting points obtaining a good EMC contact as they are tightened. This removes the requirement to degrease or remove powder coating and therefore reduces assembly time.

492504

Thread Size	Description	Order Code	Price Each			
			1+	10+	50+	100+
M16	Brass EMC Cutting Locknut	151-6943	1.21	1.10	1.03	0.96
M20	Brass EMC Cutting Locknut	151-6944	1.35	1.23	1.16	1.07
M25	Brass EMC Cutting Locknut	151-6945	1.64	1.48	1.38	1.28
M32	Brass EMC Cutting Locknut	151-6946	2.24	2.05	1.92	1.77
M16	Standard Brass Locknut	151-6947	0.48	0.44	0.42	0.39
M20	Standard Brass Locknut	151-6948	0.54	0.49	0.45	0.42
M25	Standard Brass Locknut	151-6949	0.79	0.72	0.68	0.62
M32	Standard Brass Locknut	151-6950	1.04	0.95	0.90	0.82

**IP66 - A2 Brass**



Industrial brass compression glands manufactured to BS6121 Part 1 requirements, for use with all types of unarmoured cables requiring a waterproof outer seal. Supplied in two gland kit form comprising two glands, galvanised steel locknuts, PVC shrouds and cable entry seals providing protection to IP66.

Operating Temperature -10°C to +90°C

Gland Size Ref	Mounting Thread Size	Mounting Thread Length	Cable Diameter		Order Code
			Min.	Max.	
20S	M20	10	6.2	11.7	297-793
20	M20	10	6.9	14	297-800
25	M25	10	10.6	20	297-811

208057

Gland Size Ref.	Mftrs. List No.	Order Code	Price Per Kit			
			1+	5+	10+	25+
20S	A2-20S	297-793	7.25	7.00	6.72	6.64
20	A2-20	297-800	8.43	8.12	7.82	7.63
25	A2-25	297-811	12.31	11.88	11.45	11.11

**Steel Wire Armoured Cable Glands**



Order Code	Mftrs. List No.	No of Glands, Shrouds, Tags & Locknuts per Kit/ Pack	Outer Sheath Min (mm)	Cable Dia Max (mm)
<b>Indoor BWK Gland Packs</b>				
725-7405	DAVBW20S	2	12.9	15.8
725-7417	DAVBW20	2	15.5	20.8
725-7429	DAVBW25	2	20.3	27.2
<b>Outdoor CWK Gland Packs</b>				
725-7466	DAVCW20S	2	12.9	15.8
725-7478	DAVCW20	2	15.5	20.8
725-7480	DAVCW25	2	20.3	27.2

227226

Mftrs. List No.	Order Code	Price Per Pack				
		1+	5+	10+	25+	50+
DAVBW20S	725-7405	2.74	2.50	2.41	2.24	2.07
DAVBW20	725-7417	3.82	3.46	3.33	3.10	2.87
DAVBW25	725-7429	6.20	5.64	5.45	5.06	4.65
DAVCW20S	725-7466	7.19	6.55	6.29	5.86	5.39
DAVCW20	725-7478	8.82	8.02	7.71	7.20	6.61
DAVCW25	725-7480	15.28	13.90	13.39	12.48	11.47

**IP66 - Steel - 'Shureseal'<sup>TM</sup>**



A high strength steel body incorporating a neoprene compression seal and non-corrosive thrust washer which does not age or lose its grip after long use. It passes stringent performance tests such as 'driving rain', cutting oil and paraffin splash.

Entry connection M20 mounting thread  
Operating temperature +70°Cmax.

Note: When using Order Code 9524 remove sufficient outer covering of cable to permit conductors to pass through connector body.

224216

Cable Dia.	Mftrs. List No.	Order Code	Price Each		
			1+	25+	100+
3.2-6.3	9520	121-2513	4.05	3.51	2.69
6.3-9.5	9521-EU	121-2514	3.85	3.35	2.55
9.5-12.7	9522-EU	121-2516	3.85	3.35	2.55
11.4-14.2	9523	121-2517	3.14	2.73	2.09
12.7-15.8	9524-EU	121-2518	7.57	6.62	5.00

**Brass Adaptors**



- EEx D IIC brass flameproof adaptors **BAS No. Ex831216U**
- Provide a method of matching dissimilar threadforms on flameproof equipment whilst maintaining Ex certification

Male Thread	Female Thread	Hex. A/F	Hex. A/C	Male Length	Total Length	Bore $\varnothing$	Order Code
M20	M25	30.5	35.0	16	38.5	14	438-0460
M25	M32	37.6	43.2	16	38.5	18	438-0472
PG16	M20	30.5	35.0	16	38.5	16	438-0496
1/2" NPT	M20	23.4	26.8	16	43.0	15	438-0502
M20	1/2" NPT	27	31	16	42.0	14	438-0514

214236

Male Thread	Female Thread	Order Code	1+	10+	25+	50+
M20	M25	<b>438-0460</b>	5.61	4.76	3.85	3.42
M25	M32	<b>438-0472</b>	8.93	7.58	6.14	5.47
PG16	M20	<b>438-0496</b>	5.64	4.79	3.86	3.44
1/2" NPT	M20	<b>438-0502</b>	5.04	4.30	3.47	3.09
M20	1/2" NPT	<b>438-0514</b>	7.06	6.02	4.85	4.33

**Reducers Brass**



- EEx d IIC brass reducers **BAS No. EX89Y1404U**
- Provides a method of matching dissimilar threadforms on flameproof whilst maintaining Ex certification

Male Thread	Female Thread	Hex. A/F	Hex. A/C	Male Length	Total Length	Order Code
M25	M20	33.0	38.0	16	26	438-0526
M32	M20	37.6	43.2	16	26	438-0538
M32	M25	37.6	43.2	16	26	438-0540
3/4" NPT	M20	27.9	32.1	16	30	438-0551

214246

Male Thread	Female Thread	Order Code	1+	10+	25+	50+
M25	M20	<b>438-0526</b>	3.56	3.04	2.46	2.20
M32	M20	<b>438-0538</b>	5.70	4.85	3.92	3.49
M32	M25	<b>438-0540</b>	5.70	4.85	3.92	3.49
3/4" NPT	M20	<b>438-0551</b>	5.24	4.45	3.59	3.22

**Cable Jointing Kits**

**Cable Jointing Kits**



Scotchcast™ BK-series consists of a semi-transparent mold body using the pouring technology and the two-part polyurethane resin packed in a transparent bag. Easy and save to install splice. The resin has good mechanical properties and a low exothermic reaction.



- The BK series is designed for low voltage armoured cable
- 600/1000V
- Short curing time
- Closed mix system
- Suitable for PVC, XLPE and rubber insulated cables
- Conforms to BS7888 (HD623)
- Suitable for 1,2,3 & 4 core cable

510276

Mftrs. List No.	Cable Diameter (mm)		Order Code	Price Each		
	Min	Max		1+	5+	10+
BK1	8	26	<b>160-4560</b>	14.90	14.44	14.00
BK2	14	32	<b>160-4561</b>	19.91	19.30	18.73
BK3	23	37	<b>160-4562</b>	26.17	25.37	24.61
BK4	28	51	<b>160-4563</b>	48.10	46.67	45.26

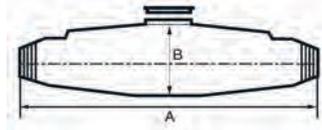
**Coming soon**



Register your interest for items that are 'Coming Soon' at [www.farnell.co.uk](http://www.farnell.co.uk) and we'll email you to let you know that they're in stock.



**Low Voltage Resin Cable Joints**



This range of Resin cable joints are designed for armoured or unarmoured cable, are of high quality and easy to use. Rigid and very strong, their snap-lock design forms an excellent seal and prevents egress of resin. The resin formula is of such quality that it provides excellent adhesion to PVC, XLPE, polythene and paper cables. It is supplied in two-part easy-mix packaging, ensuring both convenience and safety.

- Supplied complete with 4 mechanical connectors & Allen Key
- Provide safe separation of cores and connectors
- Two-part Polyurethane resin in protective aluminium foil
- Controlled curing temperature designed to be compatible with PVC, XLPE, EPR, Polythene and PILC cables
- Clear mixing instructions on every pack
- Full Health & Safety labelling
- Designed to meet the requirements of BS 6910, BS7888, CENELEC HD623 S1 and EN50393:2006

Cable Diameter (mm)		Shell Dimensions (mm)		Order Code	
Min	Max	A	B	Armoured	Unarmoured
5	20	200	35	164-1099	164-1105
8	30	250	45	164-1100	164-1106
10	34	320	60	164-1101	164-1107
30	48	450	75	164-1102	164-1108
40	66	550	100	164-1103	164-1109

523176

Mftrs. List No.	4 Core Cable Size (mm <sup>2</sup> )	Order Code	Price Each		
			1+	5+	10+
<b>Armoured</b>					
CM0+C	1.5 - 6	<b>164-1099</b> ●	10.10	9.79	9.50
CM1+C	10 - 16	<b>164-1100</b> ●	13.26	12.86	12.48
CM2+C	25	<b>164-1101</b> ●	20.81	20.18	19.56
CM3+C	35 - 95	<b>164-1102</b> ●	38.74	37.58	36.45
CM4+C	120	<b>164-1103</b> ●	87.60	84.97	82.42
<b>Unarmoured</b>					
CM0+CEX	1.5 - 10	<b>164-1105</b> ●	8.16	7.92	7.67
CM1+CEX	16	<b>164-1106</b> ●	10.61	10.28	9.97
CM2+CEX	25 - 35	<b>164-1107</b> ●	18.77	18.20	17.65
CM3+CEX	50 - 95	<b>164-1108</b> ●	36.70	35.60	34.53
CM4+CEX	120	<b>164-1109</b> ●	80.58	78.16	75.82

**Cable Management Systems**

**Cable Bundle Organizing Tool**



- Reduces cable installation time up to 50% compared to traditional methods
- Arrange cables in up to 24 positions for optimal bundle size and aesthetics
- Two inserts handle multiple network cable diameters
- Unique design allows twist-free bundling from the end or the middle of bundle
- Smooth edges; safe for use on network cables preventing cable abrasion
- Impact resistant material and low friction design to glide smoothly across cable bundle

Incert Colour	Cable Diameter Range (mm)
Fluorescent Green	4.57 - 6.30
Fluorescent Yellow	5.84 - 7.87

524522

Mftrs. List No.	Order Code	Price Each		
		1+	5+	10+
CBOT24K	<b>165-7321</b> ●	37.36	36.24	35.15

**Multigate Cable Management System**



- Multigate is an IP gasket consisting of a cable gland plate with several pre-prepared cable grommets
- Several cable or pipes can be led into a cabinet through a small area, ideal when space is limited
- It meets the respective IP enclosure classes without having to use any separate gasket or glands, which makes it extremely quick and simple to install
- Supplied as a single unit, you can replace many different parts with just one, thus reducing your inventory costs
- Suitable for both outdoor and indoor use and gives absolute protection against dust

## Cable Management Systems - continued

### Multigate Cable Management System - continued

and spraying water from all directions, providing an all-in-one sealing solution  
 ● Flame resistance UL94V-0 on UL Multigate 25

Cable Configuration and Seal Rating		
Number of Cables	Size of Cables	IP Rating
1	20 to 26	IP65
12	10 to 14	IP65
4	5 to 7	IP65
4	14 to 20	IP65
4	8 to 12	IP65

481195

Description	Colour	Mftrs List No.	Order Code	Price Each		
				1+	10+	25+
Multigate 25	Black	52445-10	142-7463●	11.53	10.37	9.34
Rivet	Black	58105	142-7470●	1.46	1.31	1.17

### Cablefix



- The strain relief closes automatically when pushing through the cable
- An integrated formed rubber part seals off the cable
- For troubleshooting, maintenance or retrofitting, the individual cables can be easily loosened and replaced
- Unneeded inputs can be closed off through the plugs supplied with the product
- Flame retardant to **UL94V-2**
- Operating temperature -30°C to +70°C
- Protection class **IP55**
- Halogen free

Mftrs. List No.	Dimensions (mm)			Number of holes	Cable entry configuration
	W	H	D		
600347	50	50	10	6	6 x 6.3 - 8.9 mm
600320	50	50	10	4	2 x 6.1 - 8.8 mm, 2 x 7.8 - 10.7 mm
600321	50	50	10	8	8 x 3.8 - 6.3 mm

503342

Mftrs. List No.	Order Code	Price Each		
		1+	5+	10+
600347	155-5475●	4.76	4.61	4.46
600320	155-5476●	4.26	4.14	4.01
600321	155-5477●	4.76	4.61	4.46

### Cablefix®Vario



- Feed-through system for pre-fabricated cables and wires
- Aluminium with additional inner brass reinforcement
- High flexibility in the application
- Easy additional mounting to existing installation
- Good strain relief and sealing
- Unneeded holes in the module can simply be sealed with blank plugs
- Compact space-saving design
- Resistant to UV radiation, ozone, oils, fuels, acids, bases, solvents and sea water

**Application:** Electrotechnology, pneumatics, hydraulics, robotics, general machine and plant construction

Frame	Mftrs. List No.	Type	Dimensions (mm)			Unit
			L	W	D	
	606001	AKLR 1	68	108	30	4 / 2
	606002	AKLR 2	68	148	30	6 / 3
	606040	AKLW 2	68	148	30	6 / 3
	606050	KKLR 1	71	136	30	4 / 2
	606051	KKLR 2	71	164	30	6 / 3

Unit corresponds to the number of required rubber modules type VK or VG

Cable Module	Mftrs. List No.	Type	Cable Diameter (mm)		Number of holes
			Min	Max	
	606150	VK0			0
	606151	VK4	4	4.5	14
	606152	VK5	4.5	5.5	8
	606153	VK6	5.5	6.5	8
	606154	VK7	6.5	7.5	5
	606155	VK8	7.5	8.5	5
	606156	VK9	8.5	9.5	3

Cable Module		Cable Diameter (mm)		
606157	VK10	9.5	10.5	3
606158	VK12	10.5	12.5	2
606159	VK14	12.5	14.5	2
606160	VK16	14.5	16.5	2
606200	VG0			0

Blanking Plug	Mftrs. List No.	Type	Diameter (mm)	Length (mm)	Suitable for Mftrs. List No.
	606251	BL5	5	30	606152
	606252	BL6	6	30	606153
	606253	BL7	7	30	606154
	606254	BL8	8	30	606155
	606255	BL9	9	30	606156
	606256	BL10	10	30	606157
	606257	BL12	12	30	606158
	606258	BL14	14	30	606159
	606259	BL16	16	30	606160

503139

Mftrs. List No.	Order Code	Price Each		
		1+	5+	10+
<b>Frame</b>				
606001	155-5478●	90.70	86.91	83.22
606002	155-5481●	96.37	92.40	88.51
606040	155-5482●	85.04	81.41	77.89
606050	155-5483●	34.01	32.98	32.00
606051	155-5484●	39.69	38.49	37.34
<b>Cable Module</b>				
606150	155-5485●	3.98	3.86	3.73
606151	155-5486●	3.98	3.86	3.73
606152	155-5488●	3.98	3.86	3.73
606153	155-5489●	3.98	3.86	3.73
606154	155-5490●	3.98	3.86	3.73
606155	155-5491●	3.98	3.86	3.73
606156	155-5493●	3.98	3.86	3.73
606157	155-5494●	3.98	3.86	3.73
606158	155-5495●	3.98	3.86	3.73
606159	155-5496●	3.98	3.86	3.73
606160	155-5497●	3.98	3.86	3.73
606200	155-5498●	5.43	5.26	5.10
<b>Blanking Plug</b>				
606250	155-5499●	0.52	0.51	0.48
606251	155-5500●	0.52	0.51	0.48
606252	155-5501●	0.52	0.51	0.48
606253	155-5502●	0.52	0.51	0.48
606254	155-5503●	0.86	0.83	0.81
606255	155-5504●	0.86	0.83	0.81
606256	155-5505●	0.86	0.83	0.81
606257	155-5506●	1.24	1.20	1.15
606258	155-5507●	1.24	1.20	1.15
606259	155-5508●	1.24	1.20	1.15

### Cable Support System



The J-MOD™ Cable Support System is a versatile solution for routing sensitive communication cables. The modular design allows for complete flexibility of assembly in multiple configurations and allows expansion of the system without disturbance of an existing installation. The non-metallic J Hook features complete horizontal and vertical 1" bend radius control, which helps prevent degradation of cable performance.

Mftrs. List No.	Part Description	Material	Max. Static Load (kg)
<b>J Hook with Maximum 2" Bundle Capacity</b>			
JMJH2W-X20	J Hook for wall mount applications only.	Nylon 6.6	13.61
JMJH2-X20	J Hook with snap lock attachments for use with all brackets listed below.	Nylon 6.6	13.61
<b>Chaining Bracket</b>			
JMCB-X	Chaining bracket to extend J-MOD™ System capacity one level.	Steel	54.43
<b>Ceiling Mount Brackets</b>			
JMCM25-1-X	Single-level ceiling mount bracket	Galvanized Steel	81.65
JMCM25-3-X	Three-level ceiling mount bracket. Max capacity of 6 J Hooks.	Galvanized Steel	81.65
<b>Drop Wire Brackets</b>			
JMDWB-1-X	Single-level drop wire bracket. Max capacity of 1 J Hook per level.	Galvanized Steel	9.07
JMDWB-3-X	Three-level drop wire bracket. Max capacity of 1 J Hook for each of 3 levels.	Galvanized Steel	18.14
<b>Threaded Rod Brackets</b>			
JMTRB38-1-X	Single-level threaded rod bracket.	Galvanized Steel	81.65
JMTRB38-3-X	Three-level threaded rod bracket.	Galvanized Steel	81.65
<b>Screw-On Beam Clamp Brackets</b>			
JMSBCB87-1-X	Single-level screw-on beam clamp bracket.	Galvanized Steel	81.65
JMSBCB87-3-X	Three-level screw-on beam clamp bracket. Max capacity of 6 J Hooks.	Galvanized Steel	81.65

524526

10 Per pack		Price Per Pack		
Mfrs. List No.	Order Code	1+	5+	10+
JMJH2W-X20	165-7323●	30.50	29.59	28.70
JMJH2-X20	165-7324●	30.50	29.59	28.70
JMCB-X	165-7325●	42.75	41.47	40.23
JMCMB25-1-X	165-7326●	25.50	24.74	24.00
JMCMB25-3-X	165-7327●	38.00	36.86	35.75
JMDWB-1-X	165-7328●	38.00	36.86	35.75
JMDWB-3-X	165-7329●	59.75	57.96	56.22
JMTRB38-1-X	165-7330●	38.00	36.86	35.75
JMTRB38-3-X	165-7332●	59.75	57.96	56.22
JMSBCB87-1-X	165-7333●	59.75	57.96	56.22
JMSBCB87-3-X	165-7334●	76.75	74.45	72.22

## Cable Routing Tools

### Cable Rod Mega Set

HellermannTyton



The Cable Rod system is a highly effective professional cable installation tool. It enables many installation jobs to be carried out single-handed, reduces disruption in busy workplaces and increases safety by reducing the need to use ladders. The system uses tough inter-connectable rods to push, pull or manoeuvre a cable to exactly where it is wanted, even in the most challenging of environments. Cables can be installed through walls, over ceilings, under floors and in conduit easily and quickly.

The Mega Set is the most comprehensive Cable Rod system and top of its range. With 16 Metres of length the Mega Set provides 6 Flexibilities, and the ability to Push, Pull, Retrieve, Grip and illuminate. The Mega Set is the choice for professionals for use in domestic environments, perfect for industrial and long reach work.

#### Rods Included:

- 6 x 1m x 5mm Standard red rods
- 3 x 1m x 6mm Stiffy black rods
- 3 x 1m x 4mm Floppy yellow rods
- 1 x 1m x 5mm Standard red swivel end rod
- 1 x 1m x 4mm Floppy yellow swivel end rod
- 1 x 1m x 5mm Swivel end rod glow
- 1 x 1m x 5mm Super flexi lead
- 1 x 175mm Flexi lead
- 1 x 250mm Black flexi lead

#### Accessories Included:

- Chain
- Single magnet
- Domed bullet
- Flat bullet
- Tuff Hook
- Mini eye and push pull ring
- Gender changer
- Super grip 6-10mm
- Super grip 11-15mm
- Super-beam torch attachment
- See below for full range of accessories

450590

Order Code	Price Per Kit	
	1+	3+
129-7509●	126.88	122.08

### Delux Cable Rod Multi-Purpose Installation Tool

HellermannTyton



The Cable Rod system is a highly effective professional cable installation tool. It enables many installation jobs to be carried out single-handed, reduces disruption in busy workplaces and increases safety by reducing the need to use ladders. The system uses tough inter-connectable rods to push, pull or manoeuvre a cable to exactly where it is wanted, even in the most challenging of environments. Cables can be installed through walls, over ceilings, under floors and in conduit easily and quickly.

The Delux set is ideal for smaller and larger installations. Various degrees of flexibility, and 10 metres of length, allow you to manage the more troublesome and lengthy cable routing tasks. With illumination included within this set, it is the ideal solution for the majority of your cable routing needs.

- 6 x 1m x 5mm Standard red rods
- 2 x 1m x 6mm Stiffy black rods
- 2 x 1m x 4mm Floppy yellow rods
- 175mm Flexi Lead
- Domed Bullet
- Mini eye and Ring
- Gender Changer
- Tuff Hook
- Thread cleaning flat bullet
- Single magnet
- Super-beam torch attachment
- See below for full range of accessories

450584

Order Code	Price Per Kit	
	1+	3+
431-7117●	84.67	82.97

### Super Six Cable Rod Multi-Purpose Installation Tool

HellermannTyton



The Cable Rod system is a highly effective professional cable installation tool. It enables many installation jobs to be carried out single-handed, reduces disruption in busy workplaces and increases safety by reducing the need to use ladders. The system uses tough inter-connectable rods to push, pull or manoeuvre a cable to exactly where it is wanted, even in the most challenging of environments. Cables can be installed through walls, over ceilings, under floors and in conduit easily and quickly.

The Super Six is a carefully selected flexible range that offers an ideal compromise for those who face challenges in both commercial and domestic installations.

- 3 x 1m x 5mm Standard red rods
- 1 x 1m x 6mm Stiffy black rods
- 2 x 1m x 4mm Floppy yellow rods
- 175mm Flexi Lead
- Domed Bullet
- Mini eye and Ring
- Gender Changer
- Tuff Hook
- Single Magnet
- Thread cleaning flat bullet
- See below for full range of accessories

450585

Order Code	Price Per Kit	
	1+	3+
872-2340●	45.69	44.25

### Standard Cable Rod Multi-Purpose Installation Tool

HellermannTyton



The Cable Rod system is a highly effective professional cable installation tool. It enables many installation jobs to be carried out single-handed, reduces disruption in busy workplaces and increases safety by reducing the need to use ladders. The system uses tough inter-connectable rods to push, pull or manoeuvre a cable to exactly where it is wanted, even in the most challenging of environments. Cables can be installed through walls, over ceilings, under floors and in conduit easily and quickly.

The standard set is particularly appropriate for domestic installations.

- 4 x 1m x 5mm Standard red rods
- 1 x 1m x 4mm Floppy yellow rods
- 175mm Flexi Lead
- Domed Bullet
- Mini eye and Ring
- Gender Changer
- Tuff Hook
- See below for full range of accessories

450583

Order Code	Price Per Kit	
	1+	3+
431-7129●	35.44	34.73

### Handy Cable Rod Multi-Purpose Installation Tool

HellermannTyton



The Cable Rod system is a highly effective professional cable installation tool. It enables many installation jobs to be carried out single-handed, reduces disruption in busy workplaces and increases safety by reducing the need to use ladders. The system uses tough inter-connectable rods to push, pull or manoeuvre a cable to exactly where it is wanted, even in the most challenging of environments. Cables can be installed through walls, over ceilings, under floors and in conduit easily and quickly.

The Handy set is designed to be used in small cramped areas, the 500mm and 330mm rods provide four degrees of flexibility for any cable installation job where the larger range of Cable rods may not be practical.

- 2 x 1m x 5mm Standard red rods
- 1 x 1m x 6mm Stiffy black rods
- 1 x 1m x 4mm Floppy yellow rods
- 1 x 330mm Flexi Lead
- Domed Bullet
- Mini eye
- Mini hook
- See below for full range of accessories

450586

Order Code	Price Per Kit	
	1+	3+
431-7105●	22.50	22.07

### Tool Box Cable Rod Multi-Purpose Installation Tool

HellermannTyton



The Cable Rod system is a highly effective professional cable installation tool. It enables many installation jobs to be carried out single-handed, reduces disruption in busy workplaces and increases safety by reducing the need to use ladders. The system uses tough inter-connectable rods to push, pull or manoeuvre a cable to exactly where it is wanted, even in the most challenging of environments. Cables can be installed through walls, over ceilings, under floors and in conduit easily and quickly.

The Tool Box set is designed to be used in small cramped areas, the 500mm and 330mm rods provide four degrees of flexibility for any cable installation job where the larger range of Cable rods may not be practical.

- 175mm Flexi Lead
- Mini eye
- Gender Changer
- Mini hook
- Thread cleaning flat bullet
- Single magnet
- 1 x Chain
- See below for full range of accessories

450587

Order Code	Price Per Kit	
	1+	3+
129-7511●	19.70	18.79

## Cable Routing Tools - continued

### Flat Rat Cable Routing Tool

HellermannTyton



Flat Rat maintains strength when being pushed, but flexible enough to go around tight corners. The rectangular design keeps the Flat Rat moving forward. Compatible with all cable rod accessories.

- 10mtr Rectangular GRP coil
- Contains: Domed bullet, Mini eye & 175mm Flexi lead

386313

Order Code	Price Per Kit	
	1+	3+
872-2331●	50.90	48.43

### Cable Rod Super Grips

HellermannTyton



Designed to provide a quick solution for attaching cables and pipes to the Cable Rod. Gripping the object (6 to 10mm) from the outside, and tightening the grip under tension, these socks provide a very reliable, super fast method for securing pipes or cables to the rods.

386317

Order Code	Price Per Kit	
	1+	3+
872-2366●	22.31	21.49

### SuperCam V5

HellermannTyton



SuperCam allows you to inspect:

- Cavity Walls
- Underfloors
- Over Ceilings
- Blockages in Ducting
- Cable Routes
- Snags in Plasterboard
- Cable Faults

SuperCam is a camera inspection system designed to work alongside the Cable Rod System. Suitable for use in a variety of everyday situations; the camera is the ideal tool for real time inspection. The Tradesman's "third eye" allows you to remotely view inaccessible areas with minimal disruption to the worksite.

490819

Description	Mfrs. List No.	Order Code	Price Each	
			1+	3+
Super Cam V5-IR	SRCAM	150-3052	327.47	314.89

### Cable Rod Attachments

HellermannTyton



- A comprehensive range of Cable Rod attachments
  - Magnet Compass (431-7099)
- For effortless rod end location and tracing. The MagCom is ideal when working blind in studwalls or over solid ceilings. Minimises effort and damage to the working environment.
- Chain and Magnet (129-7512)

A fantastically useful attachment set. A lifesaver when you are working unsighted or only have a small access hole, the chain literally jumps onto the magnet. Perfect for making the link between lost or obscured rod ends and access holes.

● **Double Magnet (129-7514)**

You have to experience the strength of this tiny magnet to believe its power - it is strong enough to pick up a 2.5 Kg (5 lb) lump hammer. Not only great at retrieving lost tools it can be used to pick up a hook on the end of another rod and pull it across a void.

- **Torch attachment for Cable Rod (872-2358)**

Described by many customers as "a must have attachment". This super bright LED torch attachment which has a continuous run time of 6 hours screws onto the end of the rod and

allows you to see obstructions within the cavity space without struggling to reach in with a torch.

- **The Glider (129-7513)**

This attachment allows the rod to glide over rough and uneven surfaces, such as joists and glass-fibre insulation without snagging. It can be used in cable trays.

- **Mixed Pack of 5 (1516093)**

Contains the following attachments: 1 x Tuff Hook, 1 x Thread Cleaning Flat Bullet, 1 x Gender Changer, 1 x Domed Bullet and 1 x Mini Eye and Ring

- **Mixed Pack of 7 (1516094)**

Contains the following attachments: 1 x Tuff Hook, 1 x Mini Hook, 1 x Single Magnet, 1 x Flat Bullet, 1 x Domed Bullet, 1 x Mini Eye and Ring and 1 x Thread Cleaning Flat Bullet

- **Flexi Lead Kit (1516095)**

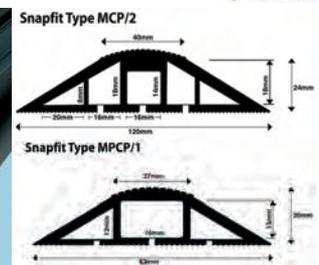
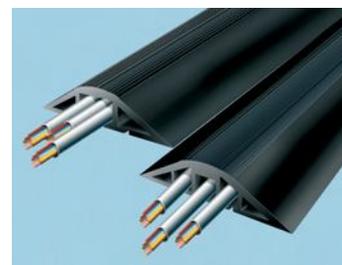
These little devices can also be tied into a knot - but they do keep their shape so you can pre-bend them (again and again) to get an end attachment into really fiddly places or when two holes do not line up. Also includes a 350mm Flexi Lead and Domed Bullet.

450588

Description	Order Code	Price Each	
		1+	3+
Magnet and Compass	431-7099●	18.00	17.28
Magnet & Chain	129-7512●	7.82	7.49
Double Magnet	129-7514●	7.34	7.03
Torch Attachment	872-2358●	11.38	10.82
Glider	129-7513●	9.82	9.42
Mixed Pack of 5	151-6093	10.29	9.80
Mixed Pack of 7	151-6094	11.33	10.77
Flexi Lead Kit	151-6095	13.19	12.53
Rod Pair	431-7087●	16.59	15.86

## Cable Protectors

### Snap Fit Cable Protectors



A range of rubber cable protectors which are designed to help prevent accidents within the workplace such as tripping over trailing cables etc.

- Compartments to segregate cables up to 16mm diameter
- Non slip top
- Snaps open for fast and simple installation
- Manufactured from a special elastomer rubber
- Flexible, rugged and hard wearing
- Low lying profile geometry
- Ridges, non-slip top
- Can be relaid as required
- Low smoke, non toxic and low fume emission
- Produced from a fire retardant compound to BS276 part 7 class 3, DIN 4102 part 1 and class B1
- UV stabilised for extended life
- Tested for non conductivity to BS903-C5, 500V
- Produced in accordance with ISO9002
- Available in black or grey

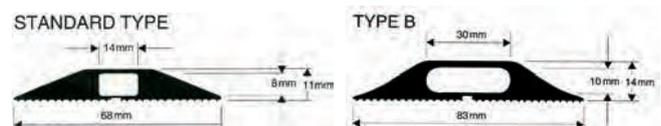
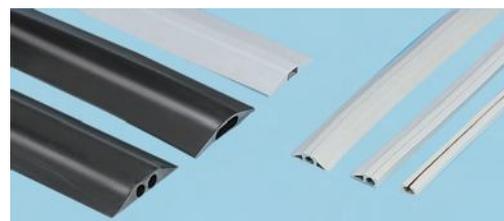


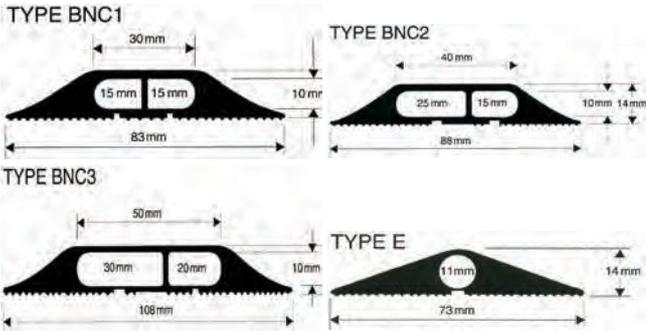
462289/503345

Mfrs. List No.	Colour	Length	Order Code	Price Each		
				1+	5+	10+
MCP/1 1.5MB	Black	1.5m	155-6215	20.69	19.65	18.43
MCP/1 1.5MG	Grey	1.5m	155-6217	21.72	20.62	19.30
MCP/1 3MB	Black	3m	155-6218	41.35	39.28	36.80
MCP/1 3MG	Grey	3m	155-6219	43.43	41.26	38.67
MCP/2 1.5MB	Black	1.5m	155-6220	28.67	27.22	25.50
MCP/2 1.5MG	Grey	1.5m	155-6221	30.11	28.52	26.78
MCP/2 3MB	Black	3m	155-6222	57.35	54.42	51.03
MCP/2 3MG	Grey	3m	155-6223	60.21	57.10	53.56

### Snap Fit®

#### Rubber Cable Protectors





- Prevents accidents caused by loose leads and cables
- No need to thread cables through profile or use knife to slit moulding
- Membrane in base easily opened to allow cable insertion then snaps back into place. Moulding can then be positioned on floor area. Adhesive tape not supplied but can be used if required. Designed for most general purpose cables and leads in offices or houses.
- UV stabilised for outdoor use
- Halogen free, low smoke and fume
- Fire retardant to **BS476 Part 7 Class 3, DIN4102 Part 1 and Class B1**

385628

Profile/Image	Colour	Length	Order Code	Price Per Length	
				1+	5+
Snap Fit Standard	Black	1m	303-0246	7.77	7.15
	Grey	1m	303-0258	7.64	7.04
	Black	3m	303-0260	19.24	18.07
Type B	Grey	3m	303-0271	19.24	18.07
	Black	1m	303-0283	11.03	10.18
	Grey	1m	303-0295	11.03	10.18
Type E	Black	3m	303-0301	27.41	26.07
	Grey	3m	303-0313	27.41	26.07
	Black	9m	871-6633	71.08	67.52
Type BNC1	Black	3m	871-6650	23.66	22.44
Type BNC2	Black	3m	871-6838	30.88	30.01
Type BNC3	Black	3m	871-6854	32.13	30.55
Type BNC3	Black	3m	871-6870	58.37	55.57

- Specifically designed to resist the harsh environmental conditions of outdoor use
- Protects dangerous heavy duty cables from damage on construction sites, shipyards and oil rigs
- Split the base with round ended scissors for simple application
- Halogen free, low smoke and fume
- Fire retardant to **BS476 Part 7 Class 3, DIN4102 Part 1 and Class B1**

385661

Profile/Image	Colour	Length	Order Code	Price Per Length	
				1+	3+
Type F	Black	4.5m	872-4784	84.12	82.08
Type FF	Black	4.5m	872-4741	138.92	135.75
Type FFF	Black	4.5m	872-4750	156.32	150.91

Hazard Cable Protectors



- Designed to protect cables and prevents accidents where cables cross open floor
- The base can be slit to easily insert cables
- Achieves **BS476 part 7 class 3** (fire retardant)
- Tested to **BS6458 Section 2.1** and **BS2782 part 1**
- Black hazard cable covers have 3 highly visible yellow stripes along the top which will alert people to the potential hazard of trailing cable

Hole Size 30 x 10 Overall Size 80 x 14 248705

Length (m)	Order Code	1+	Price Per Length		
			3+	5+	
Black/Yellow Hazard	3	431-8432	28.25	28.05	27.72
	9	431-8444	69.91	69.43	68.72

Cable Covers/Protectors



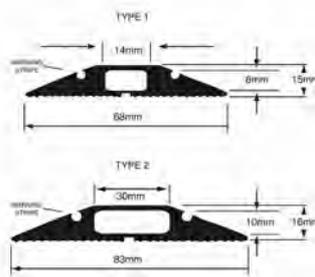
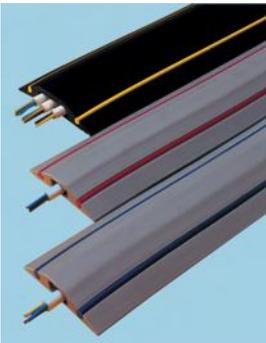
- Designed to protect cables and prevent accidents where cables cross open floor
- Available in Black and Grey in various sizes and lengths
- All have tapered edges and non-slip ribbed bases
- Supplied individually boxed

- with a disposable knife to slit the base, if required
- Achieves **BS476 part 7 class 3** (fire retardant)
- Tested to **BS6458 section 2.1** and **BS2782 part 1**

248706

Colour	Size W x H	Hole Size	Length (m)	Order Code	Price Per Length	
					1+	3+
Black	80 x 14	30 x 10	3	431-8468	25.14	24.96
Black	80 x 14	30 x 10	9	431-8470	57.27	56.87
Grey	80 x 14	30 x 10	3	431-8493	25.14	24.96
Grey	80 x 14	30 x 10	9	431-8500	57.27	56.87
Black	67 x 12	16 x 8	3	431-8584	18.27	18.15
Black	67 x 12	16 x 8	9	431-8596	43.52	43.21

Cable Protectors

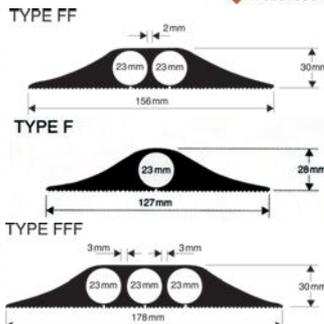


- High visibility cable protectors
- Protectors feature eye catching warning stripes that run along each side of the profile
- Ideally suited for office environments
- Unique 'snap open' feature for fast and simple installation
- Low lying profile geometry
- Can be re-laid as required

386964

Image	Colour	Length	Order Code	Price Per Length	
				1+	3+
Type 1	Black / Yellow	3	431-8249	22.58	21.36
Type 1	Black / Yellow	9	431-8250	63.87	60.94
Type 2	Black / Yellow	3	431-8262	31.78	28.95
Type 2	Black / Yellow	9	431-8274	81.78	80.13
Type 1	Grey / Red	3	431-8286	20.62	20.15

Industrial Cable Protector



Cable Guard



- Prevents people from tripping over cables and wiring routed over floors
- Protects cables and wires
- Flexible vinyl material which can easily be cut to length
- Cables slip into slit in base
- Supplied with double sided adhesive tape for fixing to carpet, tile or concrete floors

208227

Width	Colour	Mfrs. List No.	Order Code	Price Per Roll		
				1+	5+	10+
31.8mm	Ivory	FG1EI6-A	117-9894	15.76	14.67	13.50
31.8mm	Black	FG1BL6-A	117-9896	15.76	14.67	13.50
31.8mm	Safety Yellow	FG1YL6-A	117-9897	15.76	14.67	13.50
62mm	Ivory	FG3EI6S-A	117-9898	18.10	16.81	15.48
62mm	Black	FG3BL6S-A	117-9899	18.74	17.40	16.02
62mm	Safety Yellow	FG3YL6S-A	117-9900	18.74	17.40	16.02

Over 480,000 products online

## Snap Bushing & Hole Plugs

### SNAP BUSHING



A ridged black Nylon 66 bush. Push fitting to protect and insulate holes in metal chassis. To fit panel thickness 0.8mm to 3.2mm. Flame retardant to **UL94V-2**.

Mounting hole dia.	Bush hole dia.	Overall dia.	Overall depth	Order Code
9.5	6.3	12	10.3	126-9038
13	8.2	14.5	10.3	126-9039
15.9	12.2	18.6	10.3	126-9040
18.9	14.3	21.5	10.3	126-9041
22	17.3	23.8	11.5	126-9043
25.1	19.1	28	11.5	126-9044

224118

Mounting hole dia.	Order Code	Price Per Pack			
		1+	5+	10+	25+
9.5	126-9038	5.03	4.57	4.11	3.59
13	126-9039	3.16	2.89	2.59	2.26
15.9	126-9040	6.23	5.67	5.11	4.47
18.9	126-9041	3.34	3.03	2.72	2.40
22	126-9043	7.38	6.68	6.03	5.25
25.1	126-9044	8.74	7.97	7.15	6.24

### Snap Bushing



- Push fitting to protect and insulate holes
- Manufactured from Black Nylon 6.6
- Flame retardant to UL94V-2
- Supplied in Packs of 40



Mfrs. List No.	Cable Diameter Max (mm)	Panel Thickness Min (mm)	Panel Thickness Max (mm)	Overall Depth (mm)	Mounting Hole Diameter (mm)
PGSB-0609A	6.6	0.7	1.7	6.5	9.5
PGSB-1A	6.7	0.8	3.2	9.9	9.5
PGSB-2A	7.9	0.8	3.2	10.3	11.1
PGSB-1013A	9	0.8	3.5	10.5	13
PGSB-3A	9.9	0.8	3.2	10.3	14.3
PGSB-1216A	12.3	0.7	3.3	10	16.5
PGSB-1316A	10.5	1.2	3.5	10.5	16
PGSB-1519A	14.5	1.2	3.3	11	19
PGSB-1822A	17.3	1	3.5	11.5	22
PGSB-4A	20.6	0.8	3.2	10.3	25.4
PGSB-5A	22.2	0.8	3.2	10.3	27.8
PGSB-6A	26.6	0.8	3.2	10.3	31.8
PGSB-7A	29.7	0.8	3.2	10.3	34.9
PGSB-8A	31.7	0.8	3.2	10.7	38.1

524563

Mfrs. List No.	Order Code	Price Per Pack			
		1+	5+	10+	50+
PGSB-0609A	165-7523	3.89	3.77	3.65	3.48
PGSB-1A	165-7524	3.96	3.84	3.73	3.54
PGSB-2A	165-7526	4.04	3.92	3.80	3.61
PGSB-1013A	165-7527	4.13	4.00	3.89	3.70
PGSB-3A	165-7528	4.20	4.07	3.95	3.75
PGSB-1216A	165-7529	4.30	4.17	4.04	3.84
PGSB-1316A	165-7530	4.38	4.24	4.12	3.91
PGSB-1519A	165-7531	4.46	4.33	4.20	3.99
PGSB-1822A	165-7532	4.56	4.42	4.28	4.07
PGSB-4A	165-7533	4.64	4.51	4.37	4.15
PGSB-5A	165-7534	4.74	4.59	4.45	4.23
PGSB-6A	165-7535	4.83	4.68	4.55	4.32
PGSB-7A	165-7536	4.93	4.78	4.63	4.40
PGSB-8A	165-7538	5.03	4.88	4.74	4.49

### HOLE PLUGS



Hole plug in black Nylon 66. Push fitting to blank unwanted holes. To fit panel thickness 0.8mm to 3.2mm. Flame retardant to **UL94V-2**.

Mounting hole dia.	Overall dia.	Overall depth	Order Code
10	13	10.5	126-9046
13	16.9	10.5	126-9047
16	19.8	10.5	126-9048
19	22.9	10.5	126-9049
22	24.9	11.3	126-9050
25	28.3	11.5	126-9051

### 100 Per Pack

Mounting hole dia.	Order Code	Price Per Pack			
		1+	5+	10+	25+
10	126-9046	5.22	4.75	4.27	3.73
13	126-9047	6.41	5.80	5.22	4.55
16	126-9048	6.47	5.87	5.28	4.59
19	126-9049	7.55	6.87	6.17	5.38
22	126-9050	7.87	7.19	6.47	5.64
25	126-9051	6.64	6.04	5.43	4.75

224119

### Desk Cable Tidy



- Manufactured from polypropylene
- Designed to keep computer, telephone and other cables neat and out of sight

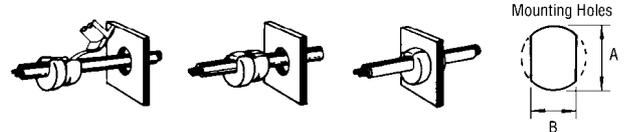
Profile	Colour	Hole Size	Shank height	Order Code
Round	Black	60mm	21mm	431-8699
Round	Grey	80mm	21mm	431-8705
Round	Brown	80mm	21mm	431-8717
Round	Black	80mm	21mm	431-8729

248710

Order Code	Price Each		
	1+	3+	5+
431-8699	1.12	1.11	1.08
431-8705	1.12	1.11	1.08
431-8717	0.59	0.58	0.57
431-8729	1.12	1.11	1.08

## Cable Strain Relief

### Strain Relief Bushes



A range of strain relief bushes to protect and securely anchor cables for through panel entry/exit. Manufactured in Black Nylon 66. Flame retardant to **UL94V-2**.

Cable Dia.	Mounting Holes		Panel Thickness	Order Code
	A	B		
6.2-7.4	12.7	11.5	0.5-1.6	126-9026
6.2-7.4	12.7	11.5	1.8-2.5	126-9027
7.6-7.6	12.7	11.8	1.8-2.3	126-9028
7.4-8.2	15.9	14	0.5-1.6	126-9029
7.4-8.2	15.9	14	1.9-3.2	126-9030
8.2-9.2	15.9	14	0.5-1.6	126-9031
8.2-9.2	15.9	14	1.9-3.2	126-9032

224120

Cable Dia.	Order Code	Price Per Pack				
		1+	5+	10+	25+	50+
6.2-7.4	126-9026	7.54	7.03	6.42	5.76	5.39
6.2-7.4	126-9027	7.54	7.03	6.42	5.76	5.39
7.6-7.6	126-9028	7.81	7.26	6.56	5.92	5.46
7.4-8.2	126-9029	4.10	3.81	3.42	3.10	2.87
7.4-8.2	126-9030	3.03	2.82	2.54	2.30	2.13
8.2-9.2	126-9031	8.84	8.19	7.46	6.72	6.25
8.2-9.2	126-9032	6.94	6.42	5.85	5.27	4.90
		Price Each				
		1+	5+	10+	25+	
Assembly tool	434-243	32.94	28.17	24.72	22.37	

### Grommet Glands



These glands are supplied complete with a self-locking TY-RAP and when fitted form a weather-tight seal. When assembled it is almost impossible to withdraw the cable.

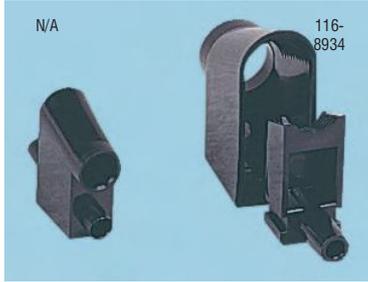
Panel Cut-Out	Cable Diameter	Mfrs. List No.	Order Code
16	4-7	7401	121-2519
20	7-12	7402	121-2520
25	12-18	7403	121-2521
Panel thickness	3.0 nominal		

224121

Mfrs. List No.	Order Code	1+	10+	50+	100+
7401	121-2519●	1.09	0.95	0.78	0.65
7402	121-2520●	1.21	1.00	0.83	0.69
7403	121-2521●	1.40	1.23	0.99	0.81

Description	Order Code	1+	3+
Black	816-9764	4.14	3.96
Blue	816-9802	4.14	3.96
Brown	816-9829	2.67	2.56
Red	816-9799	4.14	3.96
Silver	816-9772	4.14	3.96
White	816-9780	4.14	3.96
Yellow	816-9810	4.14	3.96

Cable Entry and Clamp



Operating temperature -50°C to +85°C Current rating (terminals) 16A

A dual purpose component, moulded in Black Nylon 6, conforming to BS3456, which both 'bushes' the cable at the point of entry into the appliance, and at the same time secures the cable without damage by means of a No. 6 self-tapping screw (not supplied, see Section 14), through the front panel.

Cable Dia.	Entry Dia.	Fixing centres	Fixing Screw	Order Code
<b>Without Terminals</b>				
6-9	12.7	12.7	No.6 (3.5dia)	116-8933
8-11	15.9	15.9	No.6 (3.5dia)	116-8934

224122

Without Terminals Order Code	10+	50+	100+
116-8933●	0.230	0.183	0.173
116-8934●	0.250	0.230	0.193

Conclamps



**Type A** H=30.5 W=28, Depth behind panel=59 Max. cable diameter=13.5  
**Type B** H=29, W=29, Depth behind panel=24 Max. cable diameter=13.5  
**Type C** H=21, W=28, Depth behind panel=44

- Moulded in Black Nylon 66
- **Type A** consists of an insulated M20 cable entry bush, clamping facilities and a 3-way terminal block
- **Type B** is the same as Type A without the terminal block. This is used where the panel depth is restricted and the cable can be terminated elsewhere
- **Type C** consists of clamping and termination facilities only
- For IP66 protection on Type A and B clamps replace the cable bush with M20 thread Nylon cable glands shown below

Current rating 10 A Operating temperature -40 °C to 110 °C  
 Voltage rating 380 V ac

208333

	Order Code	5+	50+	100+	250+
Type A	146-180	1.13	1.03	1.00	0.97
Type B	320-1430●	0.58	0.55	0.48	0.43
Type C	120-4682●	0.80	0.76	0.69	0.58

Insulating Tape

Waterproof Cloth 'Gaffer' Tape



Heavy duty, cloth backed adhesive tape with high tack adhesive for use where normal PVC tape would lose adhesion due to the ingress of water. Often used to fix cables to floor/walls etc. and for general repairs. Supplied on 50m rolls. 50mm wide. Shrink-wrapped for easy storage and display.

372278.255376

Double Sided Tape



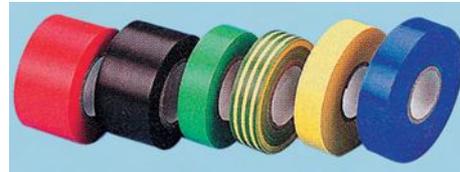
Coated with an emulsion acrylic adhesive on the open side and a hot melt adhesive on the face side. The open side can be easily removed without leaving surface residue.

- NEC approved
- Very strong adhesive
- 50mm x 50m rolls

416542.408168

Order Code	1+	3+
101-6008▲	8.51	8.13

Coloured Insulating Tape



High quality PVC electrical insulation tape providing electrical and mechanical protection.

- Electrical grade 19mm and 38mm wide, conforming to BS3924 and IEC454
- Available in black, red, yellow, blue, green, white, grey, brown and green/yellow

Technical Data Operating Temperature 0°C to +80°C Dielectric Breakdown 40kV/mm  
 Technical Data Elongation 170% Nominal Thickness 0.15mm

448528.255366

Description	Order Code	1+	5+
19mm x 20m Black	152-346	1.25	--
19mm x 20m Red	152-347	1.25	1.10
19mm x 20m Yellow	152-348	1.25	1.10
19mm x 20m Blue	152-349	1.25	1.10
19mm x 20m Green	152-350	1.25	1.10
19mm x 20m White	152-351	1.25	1.10
19mm x 20m Brown	152-353	1.25	1.10
19mm x 20m Green/Yellow	152-354	1.25	1.10
19mm x 33m Black	152-355	1.35	1.29
19mm x 33m Red	152-356	1.35	1.29
19mm x 33m Yellow	152-357	1.35	1.29
19mm x 33m Blue	152-358	1.35	1.29
19mm x 33m Green	152-359	1.35	1.29
19mm x 33m White	152-360	1.35	1.29
19mm x 33m Grey	152-361	1.35	1.29
19mm x 33m Brown	152-362	1.35	--
19mm x 33m Green/Yellow	152-363	1.35	1.29
38mm x 20m Black	305-1766	1.94	1.86
50mm x 33m Black	101-4788	1.94	1.86
50mm x 33m Red	101-4789	1.94	1.86
50mm x 33m White	101-4792	1.94	1.86

Coloured, Boxed



PVC insulating tape packed in a box containing 10 Black, 2 Red, 2 White, 2 Yellow, 2 Blue, 2 Brown, 2 Green and 2 Green/Yellow - Total 24 rolls of 19mm x 5m tape. The tape conforms to BS3924 and IEC 454.

224108

24 Per Box Order Code	1+	10+	50+	100+
305-1754	11.21	11.00	9.88	8.57

Over 480,000 products online



**Insulating Tape - continued**

**Scotch 9545 Cloth Tape**

Pre-Printed Phase Marking Tape



3M Scotch™ 9545 is a heavy-duty cloth tape, which is ideal for the identification of electrical wires and equipment. Although the tape can be torn without scissors, its longitudinal strength makes it ideal for harnessing applications and won't stretch like other materials.

- Supplied on 19mm x 10m reels
- Yellow with black legend
- 0.27mm Thickness
- Manufactured from Impregnated viscose fabric
- Natural rubber adhesive

511829

Legend	Order Code	Price Per Reel			
		1+	5+	10+	25+
L1	160-5261●	6.00	5.83	5.64	5.47
L2	160-5262●	6.00	5.83	5.64	5.47
L3	160-5263●	6.00	5.83	5.64	5.47
N	160-5265●	6.00	5.83	5.64	5.47
L	160-5266●	6.00	5.83	5.64	5.47

**Scotch 70HDT Rubber Tape**

Self-Fusing Silicone Rubber Electrical Tape



Scotch 70HDT is a high-temperature arc-and fire-resistant tape. This product is just like the Scotch 70 Tape, but has a triangular tapered edge profile (thicker in the middle) and a blue guideline to make half-lapping application easier. Scotch 70HDT has a peak thickness of 20mm, and an edge thickness of 8mm. It is available in a roll size that is 25mm x 9.14m, with a 25mm core.

- Excellent track, arc and ozone resistance
- Self-fusing, Silicone Rubber
- High dielectric strength
- Class "H" material (180°C continuous operation)
- Workable at extremely low temperatures.
- Excellent conformability
- Excellent instantaneous fusion; does not need to be held down
- Excellent weathering characteristics
- Insulating and splicing of wires and cables
- AA-59163 Class-I Type-II

511852

Order Code	Price Per Reel			
	1+	5+	10+	25+
160-5267●	40.30	39.09	37.90	36.76

**2705 – 'All Weather' (Black)**



An electrical grade, flame retardant PVC insulating tape suitable for use over a wide range of temperatures and weather conditions. The tape conforms to **BS3924** and **IEC454**.

Nominal thickness 0.175  
 Operating temperature -18°C to +80°C  
 Dielectric breakdown 9kV  
 Elongation 250%  
 Dimensions 19mm x 9m roll  
 Colour Black

207964,400976

Order Code	Price Each
217-086	2.22

**Type 33+ Scotch Vinyl Plastic (Black)**



The Scotch 33+ is a high quality flame retardant, all weather electrical insulating tape designed to perform in a continuous temperature environment up to 105°C.

Applications include primary electrical insulation (especially in moisture and solvent vapour areas) for all wire and cable joints up to 600V. The tape forms a protective jacket giving excellent abrasion resistance for high voltage cable joints and termination. The tape conforms to **BS3924** and **IEC 454**.

Nominal Thickness 7  
 Operating Temperature -18°C to +105°C  
 Dimensions 19mm x 20m  
 Colour Black  
 Dielectric Breakdown 1.15kV/mm

224109,401190

Order Code	Price Each			
	1+	+	+	+
143-078	4.13	--	--	--

**2517 – 'Self-Amalgamating' (Black)**



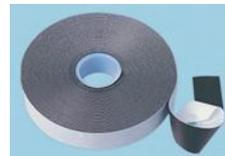
A conformable self-amalgamating tape based on ethylene propylene rubber (EPR) in two widths, 19mm or 25mm. Suitable for jointing and repairing a wide range of power and distribution cables. Can also be used for corrosion protection and water-proofing of many electrical components. The tape conforms to **BS3924** and **IEC454**.

Nominal Thickness 0.75  
 Operating Temperature -40°C to +100°C (130°C Overload)  
 Dielectric Breakdown 36kV/mm  
 Dimensions 19mmx10m, 19mmx10m  
 Colour Black  
 Mfrs. List No. 2517

207965,401193

Roll Size (WxL)	Order Code	Price Each
19mm x 10m	217-098	1+
25mm x 10m	217-104	5.06
		8.30

**Type 23 Scotch 'Self-Amalgamating' (Black)**



The Scotch 23 electrical tape is a highly conformable self-amalgamating EPR based tape which simplifies high voltage and water resistant insulation because of its easy build-up and high stretch. It is suitable for use with all solid dielectric cable insulations. The tape conforms to **BS3924** and **IEC 454**.

Nominal Thickness 0.762  
 Operating Temperature 90°C (130°C overload)  
 Dimensions 19mm x 9m  
 Dielectric Breakdown 31.9kV/mm  
 Colour Black

224110,401197

Order Code	Price Each
143-079	10.13

**Denso Tape**



- Self-adhesive Petrolatum tape
- British Gas approved
- Requires minimal preparation
- Flexible
- Effective long-term sealing and protection

Uses include: corrosion protection of pipes; valves, joints, metal surfaces and cable above and below ground or under water. Seals against ingress of water, gas, chemicals, grout, etc. Supplied in 10 metre rolls.

214228

10 metres Per Roll	Width	Mfrs. List No.	Order Code	Price Each			
				1+	12+	36+	72+
50mm	0101002	719-0670	6.08	5.90	5.72	5.55	
75mm	0101003	719-0682	9.10	8.83	8.56	8.31	
100mm	0101004	719-0694	9.00	8.75	8.42	8.02	

**Cable Reel Holders**

**Rack-A-Tiers**

The Multi-Purpose Premium Wire Dispensing Tool



- Ease of transport and storage
- Lightweight
- Durable one piece construction
- Waterproof, easy-clean
- Won't rust or rot
- Won't mark surfaces
- Made of recycled material
- Wire dispenser
- Pipe vise
- Saw horse
- Work bench
- Wall shelf
- Table

- Unmatched ease & ease of set up
- Excellent versatility of use
- Accommodates wide range in cable sizes
- Loads of up to 150Kg (330lbs)
- Has 5 x 1 1/4 (44.5mm) holes, 3 x carry handles & 2 x V notches to hold larger cable bars
- Easy to store & transport

490803

Mftrs. List No.	Order Code	1+	Price Each	5+
RT1	150-3051	64.49		61.33

## Cable Tree Junior



- Constructed from mild steel with a painted base, plated top and carry handle
- Tree will hold several reels of varying size
- The branches are designed with no pins or clips to enable reels to be changed quickly and simply
- Ideal for use on benches and in small work-shops
- H:610, W:530, D: 460

248712

Order Code	1+	Price Each	3+
431-8754	136.68		124.03

## Bench/Wall Mounting



Manufactured from pressed steel with an 18mm wooden cable reel support rod. The reel holder is suitable for either bench or wall mounting. Screw holes are revealed by removing four rubber feet. A sprung foam edged tension bar prevents the cable from reeling out excesses of cable. Supplied with five hardboard reel separators.

H=198, W=555, D=175

Maximum reel diameter	254	Colour	Grey
Maximum combined reel width	520		

224127

Order Code	1+	Price Each	4+	8+	16+
145-461	50.57		47.01	43.00	37.41

## 'Reel Master'

## MASTER TECHNOLOGY



H=113, W=562, D=530

A sturdy yet lightweight cable reel stand of cast aluminium construction with galvanised steel rollers. Designed to help eliminate handling problems associated with larger sizes of cable reels. The rollers are adjustable to accommodate a wide range of reel diameters.

Supplied in flat pack form with full assembly instructions.

Weight	7.5kg
Minimum reel diameter	120mm
Maximum reel diameter	1.2m
Maximum reel width	520mm
Maximum reel weight	140kg

227259

Order Code	1+	Price Each	5+	10+
218-042	263.28		236.94	223.80

## Premium service without a premium price



With thousands of prices already reduced, go online to see our most up-to-date pricing:  
[www.farnell.co.uk](http://www.farnell.co.uk)



# Thousands more products from our extended range



Take advantage of Farnell's global network  
and access an additional 200,000 products

#### Products direct from our US warehouse

- ▶ Over 110,000 products with associated technical datasheets
- ▶ No minimum order sizes
- ▶ Delivered in just 3 working days

#### Over 30,000 MIL SPEC connectors



- ▶ Easily source thousands of high-quality connectors from ITT Cannon and Amphenol
- ▶ Uniquely assembled and delivered in just 5 working days
- ▶ Full attribute data and technical datasheets

#### If you design in these brands, we've got it covered!

- ▶ Additional products from high performance analog, logic, microcontroller and DSP components to capacitors, resistors, filters and inductors - browse the ranges online
- ▶ All available on an accurate manufacturer lead-time



We've got products covered;  
visit [www.farnell.com](http://www.farnell.com) for fast, efficient  
ordering from just one source.

