



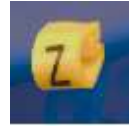
Critchley Cable Management Solutions



tyco / Electronics

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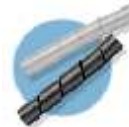
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For Cable Diameter mm	For Cable Size mm ² (BS6004) (BS6231)	Marker Size	Marker Length mm	Packed Reel Box	ORDER CODE (Straight Cut)	ORDER CODE (Chevron Cut)
1.5-2.0		5	4.5	1000	0580	1151
2.0-3.2	1.0	7	4.5	1000	0581	1152
2.5-4.0	1.5	9	4.5	1000	0615	1153
2.9-4.7	2.5	11	4.5	1000	0616	1154
3.4-5.7	4.0	13	4.5	1000	0617	1155
3.8-6.3	6.0	15	4.5	1000	0618	1156
4.3-6.9	10.0	18	4.5	500	0620	1157
5.5-8.9	16.0	23	6.0	500	0622	1158
7.9-12.7	25.0	35	6.0	250	0624	1159

Applicators for Z-Type Cable Markers

Size	Z-Type Size	Packed	ORDER CODE
1	7	1	1251
2	9	1	1252
3	11	1	1253
4	13	1	1254
5	15	1	1255
6	18	1	1256



For Cable Diameter mm	For Cable Size mm ² (BS6004) (BS6231)	Marker Size	Packed Box	ORDER CODE
1.4-2.5	–	G3/10	1000	0719
2.0-3.5	1.0-2.5	G3/20	1000	0720
3.0-6.0	1.5-6.0	G4/10	500	0721
5.0-9.5	10.0-25.0	G6/10	250	0722
8.0-12.5	25.0-50.0	G6/20	250	0723

- Gusseted design allows marker to fit firmly over a wide range of cable diameters
- 9 sizes for cables <0.5mm² to 35mm²
- Clear, legible mark
- Choice of straight or chevron cut
- Colour coded option

Material

PVC

Colour Options

STRAIGHT CUT:

White body marked black:

A-Z, 0-9 and symbols, available on reels or in boxes.

Yellow body marked black:

A-Z, 0-9 and symbols, available on reels only

Colour Coded:

0-9 all sizes, available in boxes.

CHEVRON CUT:

White body marked black:

A-Z, 0-9 and symbols, available in boxes only.

Yellow body marked black:

A-Z, 0-9 and symbols, available on reels only.

Colour Coded:

0-9, size 11 only, available in boxes or on reels.

Service Temperature

–45°C to +70°C

Chemical Resistance

Excellent resistance to sea water, detergents (10% aqueous), fuels, oils, white and industrial spirit.

- Limited Fire Hazard
- Zero halogen, UL94 V-0 rated self extinguishing material
- Gusseted design allows marker to fit a wide range of cable diameters
- Chevron cut ensures marks aligned
- 5 sizes for cables <1.0mm² to 50mm²
- Standard colour: Yellow

Service Temperature

–45°C to +70°C.

Flammability

LOI 40% O² FTI > 300°C.

Chemical Resistance

Excellent resistance to sea water, detergents (10% aqueous), fuels and oils.

Material

Modified thermoplastic compound (halogen, silicon and cadmium free).

Colour Options

Yellow body marked black:

A-Z, 0-9 and symbols.



For Cable Diameter mm	For Cable Size mm ² (BS6004) (BS6231)	Applicator Colour	Packed	MARKER ORDER CODE	APPLICATOR ORDER CODE
1.0-1.4	0.1-0.5	Brown	300*	STD01 ‡ -#	SUPPLIED
1.4-1.8	0.5-0.7	Grey	300*	STD02 ‡ -#	SUPPLIED
1.9-2.6	0.7-1.0	Green	300*	STD03 ‡ -#	SUPPLIED
2.6-3.5	1.5-3.4	Red	300*	STD06 ‡ -#	SUPPLIED
3.3-4.5	2.5-6.0	Blue	300*	STD09 ‡ -#	SUPPLIED
4.5-6.0	6.0-10.0	Yellow	300*	STD12 ‡ -#	SUPPLIED
5.8-8.5	10.0-16.0	Orange	50**	STD15 ‡ -#	STD15MO
8.5-11.5	16.0-25.0	Orange	50**	STD17 ‡ -#	STD17MO
11.0-15.5	25.0-70.0	Grey	50**	STD21 ‡ -#	STD21MO
15.0-19.0	70.0-100.0	Grey	50**	STD24 ‡ -#	STD24MO

Packaging details

* Packs contain 10 applicators, each carrying 30 markers.

** Packs contain 50 markers; applicators are sold separately, please ask for details.

Part numbering system

‡ Add "W" for white body or add "Y" for yellow body

‡‡ Add required legend code: (0-9), (A-Z), (+), (-), (/), (.), (.), (:), (PHASE), (EARTH) and (BLANK)

- Snap-on marker for post-termination applications
- Secure grip for positive fix to cable
- Supplied on applicators for quick and easy fixing
- Suitable for cable 0.1mm² to 100mm²
- Colour coded option

Material

Polyoxymethylene

Colour Options

White body marked black:

A-Z, 0-9 and symbols.

Yellow body marked black:

A-Z, 0-9 and symbols.

Colour Coded:

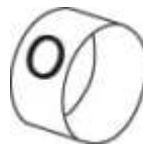
(European): 0-9.

Service Temperature

-40°C to +106°C.

Chemical Resistance

Excellent resistance to sea water, detergents (10% aqueous), fuels, oils, white and industrial spirit.



For Cable Diameter mm	For Cable Size mm ² (BS6004) (BS6231)	Marker Size	Marker Length mm	Packed	ORDER CODE Part Cut
0.6-1.0	-	0.75	3.0	1000	1106
0.9-1.3	-	10	3.0	1000	1107
1.1-1.6	-	12	3.0	1000	1108
1.4-2.1	-	15	3.0	1000	1109
1.9-2.8	-	20	5.0	1000	1110
2.4-3.5	1.0	25	5.0	1000	1111
2.9-4.8	1.5	30	5.0	1000	1112
3.9-5.8	2.5 & 4.0	40	5.0	1000	1113
5.3-8.0	6.0 & 10.0	55	5.0	1000	1114

Applicators for O-Type Cable Markers

Size	O-Type Size	Packed	ORDER CODE
1	20	1	1251
2	25	1	1252
3	30	1	1253
4	40	1	1254
6	55	1	1256

- Thin walled PVC Marker – ideal for densely packed wiring
- Conforms with BS3858 Type 3
- Ident repeated up to 3 times around marker
- Colour coded to BS EN 60062 as standard

Material

PVC.

Standard Colours

Pink body marked black: A-Z and symbols.

Colour coded: 0-9.

Service Temperature

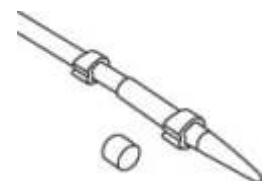
-65°C to +95°C.

Chemical Resistance

Excellent resistance to sea water, detergents (10% aqueous), fuels, oils, white and industrial spirit.

Performance

BS3858:1992 Type 3.





MARKERS

For Cable Diameter mm	For Cable Size mm ² (BS6004) (BS6231)	Marker Size	Marker Length mm	Packed Reel (R)	ORDER CODE
4.2-7.0	4.0-10.0	65	6.0	500	1361



CARRIER STRIPS

K-Type Marker Size	Capacity	Packed	ORDER CODE
65	7 Digits	500	1132
65	12 Digits	500	1131
65	18 Digits	250	1130

Universal Carrier Strip *Flag Type*

65	12 Digits	100	1133
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Selection Chart

Marker Size	For Cable diameter mm	For Cable Size mm ² (886004) (886231)	Marker length mm	Reel	Packed Disc	Box	ORDER CODE
3	1.4 - 2.8	0.2 - 1.5	3	1000	500	1000	0761
5	2.8 - 5.0	1.5 - 4.0	3	1000	500	1000	0762
10	4.0 - 10.0	2.5 - 16.0	4	1000	150	500	0763
16	8.0 - 16.0	16.0 - 70.0	6	-	-	200	0764

European Colour Coding

Number	Substrate Colour	European
0	Black	White
1	Brown	White
2	Red	White
3	Orange	Black
4	Yellow	Black
5	Green	White
6	Blue	White
7	Violet	White
8	Grey	Black
9	White	Black

- Versatile marking system for cables, cable bundles and conduit
- Elliptical marker profile allows easy fitting to carrier strips
- Large characters for good legibility
- Two styles of carrier strips holding from 7 to 18 marks
- Wide range of fixing methods

Material

PVC.

Service Temperature

-40°C to +70°C.

Colour Options

Yellow body or white body marked black:

A-Z, 0-9 and symbols, available on reels (R) only.

Colour Coded:

0-9, available on reels (R) only.

Chemical Resistance

Excellent resistance to sea water, detergents (10% aqueous), fuels, oils, white and industrial spirit.

- Chevron cut for alignment of marks
- 4 sizes cover cable diameters from 1.4 to 16mm
- Expanding gusset for ease of application
- European colour coding

Available Marks

A-Z, 0-9, +, -, /, phase, earth, blank, full stop.

Colour Options

Yellow or white body marked black: A-Z, 0-9 and symbols. Colour coded (European. Not size 16): 0-9.

Material

PVC.

Service Temperature

-45°C to +70°C.

Chemical Resistance

Resistant to petrol, industrial diesel, 10% sodium chloride, cutting oil, gear oil, aircraft fuel & abrasion.

Packaging

Boxes, reels and pancake reels.



T107M HANDHELD PRINTER

Versatile high-performance identification & labelling made fast and easy.

The T107M printer is perfect for the user who needs an affordable label printer for on-site applications. Contractors, panel builders and facility managers will save time and money by using the special Hot Keys that provide labels at the touch of a button including wire and cable wraps, module marking, fixed length, serialization, vertical printing, barcodes, symbols and much more.

The clear, smudge-free high-performance labels stick permanently to a variety of surfaces and provide remarkable MIL-spec print permanence on Heat Shrink Tubing. Print media is offered in easy-to-load cassettes and include an optimized ribbon and choice of Heat Shrink & Nylon Cloth, Vinyl, Polyester and Polypropylene labels.

Description	Image	ORDER CODE
T107M Printer kit - UK adaptor included	1	T107M-SMS-PRINTER-KIT-UK
T107M Printer kit - European adaptor included	1	T107M-SMS-PRINTER-KIT-EU
T107M Printer - Printer only (European)		T107M-SMS-PRINTER-EU
T107M Soft Carry strap		SMS-CARRY-STRAP
T107M EU power adaptor	2	SMS-EU-A/C-ADAPTOR
T107M UK & ASIA power adaptor	2	SMS-ASIA-A/C-ADAPTOR
T107M Battery pack	3	SMS-BATTERY-PACK
T107M Printer hard carry case	4	SMS-PRINTER-HARDCASE

Cassette Media	Colour	Dimensions	For Cable Diameter	ORDER CODE
Heat shrink tubing	Yellow	3.9mm x 1.5m	1.18-2.33mm	SMS-TMS-3.9-4
Heat shrink tubing	White	3.9mm x 1.5m	1.18-2.33mm	SMS-TMS-3.9-9
Heat shrink tubing	Yellow	5.2mm x 1.5m	1.73-3.73mm	SMS-TMS-5.2-4
Heat shrink tubing	White	5.2mm x 1.5m	1.73-3.73mm	SMS-TMS-5.2-9
Heat shrink tubing	Yellow	7.9mm x 1.5m	2.97-5.13mm	SMS-TMS-7.9-4
Heat shrink tubing	White	7.9mm x 1.5m	2.97-5.13mm	SMS-TMS-7.9-9
Heat shrink tubing	Yellow	13.2mm x 1.5m	4.64-8.70mm	SMS-TMS-13.2-4
Heat shrink tubing	White	13.2mm x 1.5m	4.64-8.70mm	SMS-TMS-13.2-9
Nylon cloth	Yellow	12mm x 3.5m		SMS-NC-12-4
Nylon cloth	White	12mm x 3.5m		SMS-NC-12-9
Nylon cloth	White	19mm x 3.5m		SMS-NC-19-9
Non adhesive tag	White	6mm x 5.5m		SMS-PPNA-6-9
Non adhesive tag	White	9mm x 5.5m		SMS-PPNA-9-9
Coloured vinyl	Yellow	12mm x 5.5m		SMS-V-12-4
Coloured vinyl	White	12mm x 5.5m		SMS-V-12-9
Coloured vinyl	Red	19mm x 5.5m		SMS-V-19-2
Coloured vinyl	Yellow	19mm x 5.5m		SMS-V-19-4
Coloured vinyl	Green	19mm x 5.5m		SMS-V-19-5
Coloured vinyl	White	19mm x 5.5m		SMS-V-19-9
Polyester	White	9mm x 5.5m		SMS-WP-9-9
Polyester	White	12mm x 5.5m		SMS-WP-12-9
Polyester	Clear	12mm x 5.5m		SMS-CP-12-X
Polyester	Clear	19mm x 5.5m		SMS-CP-19-X
Polyester (metalised)	Silver	12mm x 5.5m		SMS-MP-12-8A
Polyester (metalised)	Silver	19mm x 5.5m		SMS-MP-19-8A



Image 1



Image 2



Image 3



Image 4

- Affordable and easy to use
- Oversized keys
- Unit weighs less than 1.5kg
- Rubber bumper for protection
- Also available in kit form
- Easy to install cassettes
- Battery life indicator
- Durable/Non-smearing technology
- Five print sizes (XS-S-M-L-XL)
- Large display with 2-line x 15 character views
- Horizontal & vertical print options prevent confusion
- Multiple line printing permits up to four lines per label
- Commonly used electrical & datacom symbols
- Bright orange in colour, ensuring it will not get lost
- Dedicated Hotkey for serialization (alphanumeric)
- Power sources: 6 x AA batteries or AC adaptor (both included)
- Auto-shutoff after 5 idle minutes saves battery life
- Barcode printing of two of the most commonly used barcodes - Code 39 & Code 128



TKM HAND WRITEABLE LABELS

Quick, simple and durable form of wire, cable and pipe identification.

Max. cable Diameter mm	Label dimensions H x W mm	Write-on Area H x W mm	Markers Per pack	ORDER CODE
10.00	50.00 x 25.00	15.00 x 25.00	90	TKM50WE-N
14.00	75.00 x 25.00	25.00 x 25.00	60	TKM75WE-N
38.00	150.00 x 25.00	25.00 x 25.00	30	TKM150WE-N
63.00	230.00 x 25.00	25.00 x 25.00	30	TKM230WE-N



CMD - CABLE & WIRE MARKER DISPENSER

One of the most user friendly portable wire marker systems available.

Product Description	Dimensions H x W mm	Markers Per pack	ORDER CODE
Loaded dispenser: markers pre-marked 0-9	32.0 x 6.4	10 x 76	CMD-0-9
Loaded dispenser: colour coded markers	32.0 x 6.4	10 x 76	CMD-CC
Refill box pre-marked 0 to 9	32.0 x 6.4	10 x 76	CMD-0-9-REFILL
Refill box colour coded	32.0 x 6.4	10 x 76	CMD-CC-REFILL
Empty dispenser	32.0 x 6.4	10 x 76	CMD-EMPTY
Refill box pre-marked A	32.0 x 6.4	10 x 76	CMD-A-REFILL
Refill box pre-marked B	32.0 x 6.4	10 x 76	CMD-B-REFILL
Refill box pre-marked C	32.0 x 6.4	10 x 76	CMD-C-REFILL
Refill box pre-marked D	32.0 x 6.4	10 x 76	CMD-D-REFILL
Refill box pre-marked E	32.0 x 6.4	10 x 76	CMD-E-REFILL
Refill box pre-marked F	32.0 x 6.4	10 x 76	CMD-F-REFILL
Refill box pre-marked G	32.0 x 6.4	10 x 76	CMD-G-REFILL
Refill box pre-marked H	32.0 x 6.4	10 x 76	CMD-H-REFILL
Refill box pre-marked L	32.0 x 6.4	10 x 76	CMD-L-REFILL
Refill box pre-marked N	32.0 x 6.4	10 x 76	CMD-N-REFILL
Refill box pre-marked R	32.0 x 6.4	10 x 76	CMD-R-REFILL
Refill box pre-marked S	32.0 x 6.4	10 x 76	CMD-S-REFILL
Refill box pre-marked T	32.0 x 6.4	10 x 76	CMD-T-REFILL
Refill box pre-marked U	32.0 x 6.4	10 x 76	CMD-U-REFILL
Refill box pre-marked V	32.0 x 6.4	10 x 76	CMD-V-REFILL
Refill box pre-marked W	32.0 x 6.4	10 x 76	CMD-W-REFILL
Refill box pre-marked -	32.0 x 6.4	10 x 76	CMD-MINUS-REFILL
Refill box pre-marked +	32.0 x 6.4	10 x 76	CMD-PLUS-REFILL



- Self writable, self-laminating labels
- Clear tail wraps around cable to cover text and to protect against chemicals and frequent handling
- Supplied in pocket sized booklet

Material

PVC.

Service Temperature

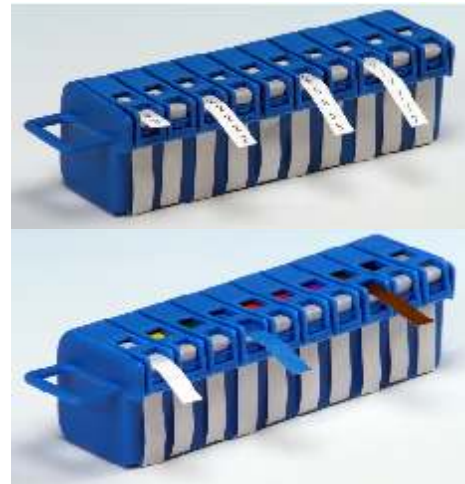
-30°C to +120°C

Standard Colour

White marking area with clear overlamine "tail"

Chemical Resistance

Good resistance to dirt, water, alcohol, fats, fuels, aliphatic solvents, weak acids, salts and alkalis.



- Each role of markers contains 76 individual markers which are a convenient length suitable for most commonly identified wire sizes.
- Supplied with a pre-determined length of 32mm and a width of 6.4mm.
- Supplied in a handy pocket sized re-usable dispenser.

Material

DuPont Tyvek®

Service Temperature

-40°C to +80°C

Chemical Resistance

Aggressive acrylic adhesive impervious to and water.

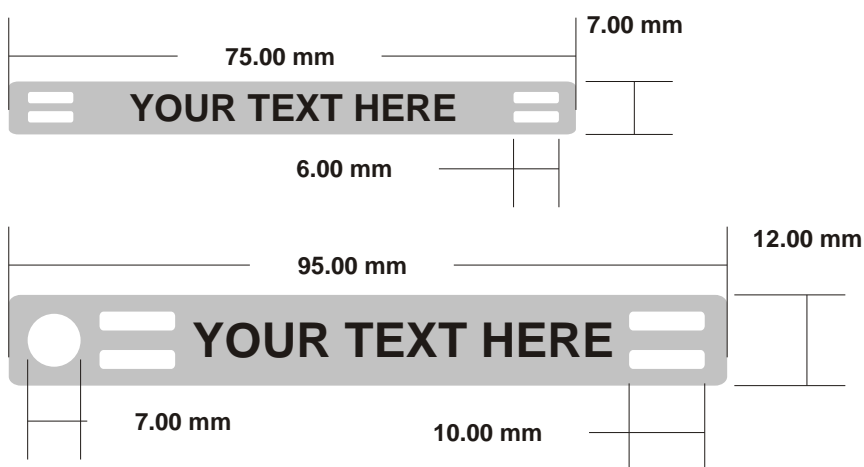
critchley@expresselectrical.co.uk

Permark 316 Stainless Steel Laser Marked Markers



Our unique marking process allows us to provide you with a diverse range of options to meet *all* your hostile environment marking requirements.

Marker Length mm	Marker Height mm	Cable Tie Slot Width mm	Packed	ORDER CODE
75.00	7.00	6.00	each	PP-PM07507
95.00	12.00	10.00	each	PP-PM09512



Technical Data

Permark markers were laser marked at 600dpi and then totally immersed in the test solutions below and results recorded.

Organic	1 Hour	12 Hours	24 Hours	168 Hours
Gasoline	No effect	No effect	No effect	No effect
Limonene	No effect	No effect	No effect	No effect
Methyl Ethyl	No effect	No effect	No effect	No effect
N-Butanol	No effect	No effect	No effect	No effect
Mineral Spirits	No effect	No effect	No effect	No effect
Xylene	No effect	No effect	No effect	No effect
Acetone	No effect	No effect	No effect	No effect
Propylene	No effect	No effect	No effect	No effect
Ethanol	No effect	No effect	No effect	No effect
DMSO	No effect	No effect	No effect	No effect
Motor Oil	No effect	No effect	No effect	No effect

Acid / Bases	1 Hour	12 Hours	24 Hours	168 Hours
Hydrochloric Acid	No effect	No effect	*Test Stopped - see notes	No effect
Nitric Acid (68%)	No effect	No effect	No effect	No effect
Sulfuric Acid (conc.)	No effect	No effect	No effect	No effect
Acetic Acid (99.5%)	No effect	No effect	No effect	**see notes
Hydrogen Peroxide (30%)	No effect	No effect	No effect	No effect
Sodium Hydroxide (25%)	No effect	No effect	No effect	No effect
Ammonium Hydroxide (20%)	No effect	No effect	No effect	No effect

*Acid dissolves steel tag and test was not run over 12 hours
 After 1 hour acid dissolved 0.2767gms off of steel tag (4.7%) - no effect to mark
 After 12 hours acid dissolved 1.8057gms off of steel tag (30.6%) - no effect to mark
 **Acid discolours after approximately 96 hours - mark appears slightly discoloured

- BOLD block letters
- True Type fonts
- Logos and graphics
- Multiple lines of text
- Varying font sizes on same marker
- Standard and 2-D barcoding
- Single / one-off productions
- Upper or lower case characters
- Alphanumeric and sequential numbering ability
- NO MINIMUM ORDER QUANTITY

Ordering



all products are delivered to you through a dedicated service to meet your demands and ensure prompt turn-around, delivery and back-up. Simply post, email or fax your data to Express Electrical. Once received we shall check, verify and process.

Packaging



any instruction for packaging of your markers can be advised allowing us to identify if you require markers dispatched by set, batch, field area or alpha-numerical order. This leads to ease of pickability and improved productivity at site as markers shall be catalogued in an organised fashion.

Delivering



this product is available from Express Electrical to any location worldwide. This product requires efficient, service driven people to deliver on time and as such our dedicated team will ensure we meet your requirements.

316 Stainless Steel Betamarker Markers



Description	Packed	ORDER CODE
BetaMarker tiles (20 per strip)	200 tiles	0700
Carrier strips 6 digits	100 strips	0703
10 digits	100 strips	0704
16 digits	50 strips	0705

- Limited Fire Hazard
- Suitable for use in the harshest of environments
- Heavily embossed characters
- 316 Stainless steel
- Fixed with Critchley one-piece stainless steel BetaTies
- 6, 10 or 16 digit carriers

Material

316 Stainless steel.

Standard Colours

Metallic, A-Z, 0-9, +, -, / and blank.



Light Duty Stainless Steel Ties



Strap Length		Strap Width		Loop Tensile #	Maximum		Packed	ORDER CODE
inches	mm	inches	mm	Strength (N)	Bundle Diameter	inches		
5.5	140	0.2	5.0	1200	1.37	35	250	1819

Minimum Values.

- Limited Fire Hazard
- 316 stainless steel
- One-piece construction
- BetaTies puller available
- Suitable for hostile environments

Material

316 Stainless steel.

Standard Colour

Metallic.

Nylon Coated Stainless Steel Ties



Strap Length ‡	Inches	mm	Loop Tensile #	Loop Tensile #	Maximum		Packed	ORDER CODE	ORDER CODE
			Strength (N)	Strength (N)	Bundle Diameter	Colour*		6mm Strap Width	9.5mm Strap Width
9	229		1000	1550	2.3	58	Black	100	1820
12	305		1050	1450	3.3	84	Black	100	1821
18	457		1250	1475	5.2	132	Black	100	1822
24	610		-	1500	7.1	180	Black	50	-

*Other colours are available subject to quotation. ‡Length excluding buckle. #Minimum values.
Stainless Steel BetaTies are covered by the following patents
2188363 B – British 170862 – Norway

- Limited Fire Hazard
- 316 stainless steel, with a Zero Halogen nylon 11 coating
- One-piece construction
- BetaTies puller available
- DNV and Lloyds Register approved

Material

Nylon 11 coated 316 Stainless steel.

Standard Colour

Black

Service Temperature

Up to +80°C.

critchley@exproselectrical.co.uk



Nylon 6 & Nylon 6.6 Cable Ties

Size mm (W x L) Nominal	Tensile Strength (Min.) Kg	Max. Bundle Diameter mm	Min. Bundle Diameter mm	Packed	ORDER CODE Black Nylon 6.6	ORDER CODE Natural Nylon 6.6	ORDER CODE LFH Grey Nylon 6
2.4 x 80	8*	15	2.50	100/1000	–	1070	–
2.5 x 100	8*	23	3.25	100/1000	1060	1051	1780
2.5 x 120	8*	30	2.75	100/1000	1081	1071	–
4 x 140	23*	32	6.60	100/1000	1062	1053	1781
2.5 x 200	8*	50	2.75	100/1000	1082	1072	–
4 x 200	23*	51	6.60	100/1000	1063	1054	1782
4 x 275	23*	75	6.60	100	1064	1055	1783
5 x 360	23*	100	7.00	100	1061	1052	1784
8 x 240	54*	63	8.30	100	1067	1056	–
8 x 300	54*	82	8.30	100	1068	1057	1786
8 x 375	54*	106	10.30	100	1069	1058	1787
9 x 533	79	140	15.20	100	1083	1073	–
9 x 710	79	190	15.20	100	1084	1074	–

* According to AS23190E, Critchley Nylon 6.6 cable ties exceed this specification

- Limited Fire Hazard, Zero Halogen
- Self extinguishing, UL V-0 rated
- High tensile strength
- Multi-toothed ratchet for strong locking
- Good resistance to oils and solvents
- Standard colours: black and natural

Materials

LFH Nylon 6, Nylon 6.6.

Standard Colours

LFH (Grey only). Black and natural.

Service Temperature

–25°C to +80°C.

Smoke Emission

(LFH type only) Ao 0.02m²/g (BS6853 B.5.1).

Flammability

(LFH type only) LOI 32% O₂(BS2782 Pt 1). UL94 V-0 rated material.

Chemical Resistance

Hydraulic fluids, oils, engine fuels, coolants, aliphatic and aromatic hydrocarbons, lubricants.

Nylon 12 Cable Ties



Size mm (W X L) Nominal	Maximum Bundle Diameter mm	Packed	ORDER CODE Black
4 x 140	32	100	1790
4 x 200	51	100	1791
4 x 275	75	100	1792
8 x 240	63	100	1794
8 x 300	82	100	1795
8 x 375	106	100	1796

- UV stabilised for outdoor use
- High tensile strength
- Multi-toothed ratchet for strong locking

Material

Nylon 12.

Standard Colour

Black.

Service Temperature

–40°C to +65°C.

Flammability

LOI 23% O₂.

Chemical Resistance

Dilute organic acids, oils, hydraulic fluids, inorganic salts, aliphatic and aromatic hydrocarbons.

Cable Tray Cleat



Size Width mm	Packed	ORDER CODE
12	100	0401

- Cable tie anchoring device for use with slotted cable tray
- Suitable for use with cable ties or 4.0mm, 8.0mm and 12.0 Betastrip

Material

Nylon 6.6 black.

Service Temperature

–20°C to +80°C.



BETASLEEVE SLEEVING



- Braided sleeving is ideal for containing cable bundles, giving protection against abrasion, vibration and mechanical damage
- LFH braided sleeving (CXLP) is treated glass fibre providing operating temperatures in excess of 300°C, available in black
- The standard and Limited Fire Hazard ranges are Zero Halogen

Flammability

UL94 V-2 rated material.

Chemical Resistance

Good resistance to acids and solvents.

Service Temperature

-50°C to +150°C.

Strength

Individual strands – 25 Newtons.

Material

Polyester. Zero Halogen.

Standard Colours

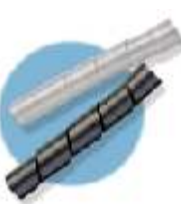
Black and grey.

Nominal Diameter mm	Cable Size min-max mm	Coil Length m	ORDER CODE Black	ORDER CODE Grey
6	4.0-9.0	100	16200600	16210600
10	6.0-14.0	100	16201000	16211000
15	10.0-20.0	50	16201500	16211500
25	16.0-31.0	25	16202500	16212500

Other sizes available to special order.



SPIROBAND WRAPPING



- Easy to apply wrapping with effective wiring-out
- Protects tubes/cables from abrasion
- Limited Fire Hazard range provides a Zero Halogen, UI94 V-O rated and low smoke material with operating temperatures of up to 120°C

Standard Colours

1. LDPE: Black or Natural
2. Nylon 12: White
3. FRLDPE: Natural

Materials

LDPE: -50°C to +50°C.

UL94 V-2 rated material. LOI 23% O2

Nylon 12: -15°C to +100°C (static applications).
-15°C to +80°C (dynamic applications).

FRLDPE: -50°C to +50°C.

Nominal Size OD mm	Nominal Wall Thickness mm Polyethylene	Nominal Wall Thickness mm Nylon	Packed m	ORDER CODE LDPE Black	ORDER CODE LDPE Natural	ORDER CODE FRLDPE White	ORDER CODE Nylon 12 Natural
3	0.7	0.4	50	0200	0201	0202	0203
6	1.25	0.6	50	0204	0205	0206	0207
12	1.75	0.8	25	0208	0209	0210	0211

Grommet Strip

Size OD mm	Plate Thickness mm	swg	Minimum Corner Radius mm	Minimum Aperture Diameter mm	Packed m	ORDER CODE
2	1.0 - 1.1	up to 18	4	22	25	0494
3	1.5 - 2.0	17 - 14	5	25	25	0495
4	2.5 - 3.3	13 - 10	6	30	25	0496
5	4.0 - 4.9	-	8	36	25	0497
6	4.5 - 6.5	-	8.5	45	25	0498

- Stops chafing on panel opening
- Suitable for plate thicknesses from 1.0mm to 6.5mm

Material

LDPE natural.

Service Temperature

-50°C to +50°C.

critchley@exproselectrical.co.uk

A comprehensive range of flexible conduit in a variety of materials for specific applications



LFH Nylon Betaflex 1 Conduit



- Limited Fire Hazard product, ideal where human life or electronic components are at risk
- Self extinguishing, UL94 V-O rated
- Zero Halogen
- Excellent UV resistance
- Sizes 16mm to 32mm OD
- Standard colour: black

Size OD mm	Size ID mm	Minimum Bend Radius mm	Packed m	ORDER CODE
16	12.2	20	5	24112
16	12.2	20	25	24102
20	15.4	25	5	24113
20	15.4	25	25	24103
25	20.1	25	5	24114
25	20.1	25	25	24104
32	26.0	35	5	24115
32	26.0	35	25	24105

Material

Self extinguishing nylon 6. Zero Halogen.

Standard Colour

Black.

Service Temperature

-10°C to +120°C

Flammability

UL94 V-O rated material. LOI 37% O₂.

Chemical Resistance

Diesel, petrol, fuels, white spirit, inorganic salts, sea water, hydrocarbons, organic acids, alcohols.

Polypropylene Betaflex 1 Conduit



- Designed for applications where resistance to constant flexing and vibration is essential
- Excellent flexibility
- Zero Halogen
- Sizes 16mm to 56mm OD
- Standard colours: black and grey

Size OD mm	Size ID mm	Minimum Bend Radius mm	Packed m	ORDER CODE Grey	ORDER CODE Black
16	12.2	20	50	24302	24282
20	15.4	25	50	24303	24283
25	20.1	25	50	24304	24284
32	26.0	35	25	24305	24285
43	37.7	55	25	24307	-
56	50.0	75	25	24309	-

Material

Polypropylene. Zero Halogen.

Standard Colours

Grey and black.

Service Temperature

-25°C to +90°C.

Chemical Resistance

Diesel, detergent, inorganic acids, alkalis, oils.

PVC Betaflex 1 Conduit



Size OD mm	Size ID mm	Minimum Bend Radius mm	Packed m	ORDER CODE
16	12.2	20	50	24402
20	15.4	25	50	24403
25	20.1	25	50	24404
32	26.0	35	25	24405

- Excellent lightweight economical conduit, suitable for a variety of applications
- Sizes 16mm to 32mm OD
- Available in white

Material

Polyvinyl Chloride.

Standard Colour

White.

Service Temperature

-15°C to +60°C.

Chemical Resistance

Diesel, detergent, white spirit, mineral oils, inorganic solvents.

FRHDPE Betaflex 1 Conduit



Size OD mm	Size ID mm	Minimum Bend Radius mm	Packed m	ORDER CODE
12	8.9	10	50	24201
16	12.2	20	50	24202
20	15.4	25	50	24203
25	20.1	25	50	24204
32	26.0	35	25	24205

- Ideal for sub-zero applications – down to -50°C
- Flame retarded
- Sizes 12mm to 32mm OD
- Standard colour: white

Material

Flame Retarded High Density Polyethylene

Standard Colour

White.

Service Temperature

-50°C to +55°C.

Chemical Resistance

Diesel, petrol, fuels, detergent, white spirit, inorganic salts, oils.

PVDF Betaflex 1 Conduit



Size OD mm	Size ID mm	Minimum Bend Radius mm	Packed m	ORDER CODE	ORDER CODE
				Red	Black
8	5.5	20	50	246108	246008
10	7.3	10	50	24610	24600
12	9.0	10	50	24611	24601
16	12.5	20	30	24612	24602
20	15.5	25	30	24613	24603
25	20.3	25	30	24614	24604
32	26.0	35	30	24615	24605

- Ideal where high operating temperatures required (up to 140°C)
- Self extinguishing, UL94 V-O rated
- Designed to meet demanding military and industrial applications
- Sizes 8mm to 56mm OD
- Standard colours: black and red

Material

Polyvinylidene Fluoride.

Standard Colours

Black and red.

UV Resistance

Excellent.

Service Temperature

-40°C to +140°C.

Flammability

UL94 V-O rated material. LOI 44%. O

Chemical Resistance

Diesel, detergent, white spirit, acids, aliphatic and aromatic hydrocarbon, inorganic and organic acids, halogenated solvents.

Larger sizes available on request.

critchley@expresselectrical.co.uk

Betaflex Adaptors



Conduit Size OD mm	Thread Size	Packed	ORDER CODE	ORDER CODE	ORDER CODE
			Black	Grey	White
16	M16 x 1.5	50	24212	24312	24412
	M20 x 1.5	10	24272	–	–
	PG11	50	–	24532	–
20	M20 x 1.5	50	24213	24313	24413
	PG16	50	–	24533	–
25	M25 x 1.5	50	24214	24314	24414
	PG21	50	–	24534	–
32	M32 x 1.5	10	24215	24315	24415
	PG29	25	–	24536	–
43	PG36	1	–	24537	–
56	PG48	1	–	24539	–

Note: PG thread size includes lock-ring.

- Easy to fit two-piece adaptor. Can be fitted with sealing washer and used with metric threaded boxes or with lock rings. PG threads also available.
- Self extinguishing nylon, UL94 V-O rated material
- Available in black, grey or white

Material

Flame retarded nylon.

Service Temperature

–50°C to +55°C.

Standard Colours

Black, grey and white.

Flammability

UL94 V-O rated material.

Betaflex Elbows



Conduit Size OD mm	Thread Size	Packed	ORDER CODE	ORDER CODE	ORDER CODE
			Black	Grey	White
16	M16 x 1.5	10	24222	24322	24422
20	M20 x 1.5	10	24223	24323	24423
25	M25 x 1.5	10	24224	24324	24424
32	M32 x 1.5	5	24225	24325	24425

- Swept bend for ease of wiring, gives neat right-angled junctions with threaded or unthreaded components.

Material

Flame retarded nylon.

Service Temperature

–50°C to +55°C.

Standard Colours

Black, grey and white.

Flammability

UL94 V-O rated material.

Betaflex T-pieces



Conduit Size OD mm	Thread Size	Packed	ORDER CODE	ORDER CODE
			Black	Grey
16	–	5	24242	24342
20	–	5	24243	24343
25	–	5	24244	24344
32	–	2	24245	24345

- 2-piece design enables lay-in wiring
- When used with a reducer kit provides step-down options for one or two exits

Material

Flame retarded nylon.

Standard Colours

Black and grey.

Service Temperature

–50°C to +55°C.

Flammability

UL94 V-O rated material.

Betaflex Reducer Kits



Conduit OD Reduction mm	Packed	ORDER CODE
20 to 16	10	24252
25 to 20	10	24253
32 to 25	4	24254

- Enables elbows and T-pieces to accommodate smaller conduit sizes
- Limited Fire Hazard
- Nylon material
- Fits 20-32mm unreduced diameters

Material

Flame retarded nylon.

Lock Rings for Adaptors & Elbows



Conduit Size OD mm	Thread Size	Packed	ORDER CODE Black	ORDER CODE Grey	ORDER CODE White
16	M16 x 1.5	100	24232	24332	24432
20	M20 x 1.5	100	24233	24333	24433
25	M25 x 1.5	100	24234	24334	24434
32	M32 x 1.5	50	24235	24335	24435

Sealing Washers



Conduit Size mm	Packed	ORDER CODE
16	50	24512
20	50	24513
25	50	24514
32	10	24515

Saddles



Conduit Size mm	Packed	ORDER CODE Grey	ORDER CODE LFH Black Nylon
16	100	24522	24552
20	100	24523	24553
25	100	24524	24554

Conduit Clips



Conduit Size mm	Packed	ORDER CODE Black	ORDER CODE Grey	ORDER CODE LFH Black Nylon
16	20	24262	24362	24562
20	20	24263	24363	24563
25	20	24264	24364	24564
32	10	24265	24365	24565

Cubicle Door Hinge Assembly Brackets



Bracket Nominal ID mm	Packed	ORDER CODE
25	10	1338
32	10	1339

Material

Flame retarded nylon.

Standard Colours

Black, grey and white.

Service Temperature

-50°C to +55°C.

Flammability

UL94 V-O rated material.

Limited Fire Hazard Material

Flame retarded nylon coloured black.

Service Temperature

-10°C to +120°C.

- Tough neoprene sealing washers
- Aids sealing for arduous conditions
- Available in a variety of sizes, for use with adaptors, elbows and T-pieces

Material

Neoprene. polychloroprene.

- Rigid mounting with 2 screws

Standard Colour

PVC - Grey. FR Nylon - Black.

PVC Service Temperature

-25°C to +50°C.

LFH Service Temperature

-10°C to +120°C. UL94 V-O rated material.

- Excellent lightweight economical
- Single point fixing
- Snap lock action allows rapid fit

Standard Material

Polypropylene.

Standard Colours

Black and grey.

Service Temperature

-25°C to +90°C.

- Limited Fire Hazard
- Enables effective routing from a cubicle to the door
- Screw or self adhesive fixing

Material

Stove finished aluminium

Service Temperature

Exceeds +120°C (max. 45°C with self adhesive pad)



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