Mills

EST. 1918

millsltd.com

The One-Stop Shop for **Digital Infrastructure Products**

ISSUE: PIA2304

All you need for **Broadband Speed!**

Everything for your GIGABIT BRITAIN network build – digital infrastructure products, tools & equipment.

All you need for **Broadband Speed!**

Mills provides the full range of fibre infrastructure products, tools and equipment needed to build end-to-end Gigabit-capable networks. Operating as both distributor and, in many cases, manufacturer, Mills makes the supply chain simple and efficient, supplying the Communication Provider (CP) with everything needed to build robust and resilient Gigabit-capable digital connectivity throughout the UK, in order to GET GIGABIT BRITAIN LIVE by 2025!

With its clear understanding of the product needs for building GIGABIT BRITAIN, including the specialist knowledge required to utilise Openreach's Duct and Pole infrastructure in a compliant manner, make sure Mills is your partner of choice for FTTx products from the beginning to the end of your network build.

The UK Government's target to deliver nationwide Gigabit capable broadband by 2025, along with recent reforms regarding access to Openreach's Duct and Pole infrastructure, has greatly increased the uptake of Physical Infrastructure Access (PIA) by licensed CPs who are rolling out Gigabit-capable networks in both rural and urban areas in far quicker timescales and at lower cost than if building from scratch.

Compliance

All Duct and Pole infrastructure products, associated tools and equipment supplied by Mills comply with Openreach engineering rules regarding PIA.

Recent Mills Milestones

The Next Hundred Years
Following our centenary in 2018 we marked our success with two videos - our extraordinary history and more recent achievements. Just put '*Mills 100 Years*' and '*Mills Next*' into YouTube.

Our New Website
It's easier than ever to order online. Try our new Add to Cart by SKU and CSV functionality, improved search, new requisition lists functionality, new re-order functionality and improved site navigation!

The Man with the Fibre Installation Gun
Mills has produced a homage to James Bond introducing its new fibre installation gun. Just enter '*Mills the FIG*' into YouTube. See the Fibre Installation Gun itself on page 33.
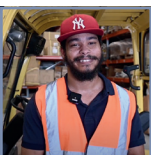
Meet the Mills Team
This new video explains what makes Mills different and introduces many of the people who help us achieve the level of service that is so important to us. Just put '*Meet Mills Team*' into YouTube.

Sales/Technical Support   **tel: 020 8833 2626**

Masters of Innovation

Innovation plays an important role in Mills' success. The taking of a traditional product, talking to customers and producing a modification that does the job faster and better is a significant part of what we do. This is particularly true of the upgrade from old copper telephone networks to fibre-based systems, dictating a need for equipment to be revisited and updated. Many traditional products have been subjected to rigorous R & D, taking into account ergonomics and aesthetics, to arrive at a lighter, more functional, streamlined solution.

Recent Mills Milestones *(cont)*

Mills Headquarters in Uxbridge

Mills Brackley warehouse

More Stock Than Ever

In 2019, our move to new premises on the banks of the Grand Union Canal in Uxbridge gave us ample room for growth with 50,000 square feet of warehousing. Or so we thought. Such has been the demand for our digital infrastructure products and equipment that we have now taken over the unit next door to our headquarters on the Zodiac Business Park and also added a further 10,000 square feet of warehouse space at Brackley in Northamptonshire. In total, this gives us approaching 100,000 square feet of racking and storage from which to meet our promise of next day delivery whenever possible.

Index

Underground and Overhead Telecom Infrastructure and PIA Products

Physical Infrastructure Access (PIA) enables licenced Communication Providers (CPs) to install sub duct or cable into Openreach's existing access duct infrastructure and to attach cables on Openreach's existing poles.

PIA enables CPs to build and expand their fibre networks in far quicker timescales and at lower costs than if building from scratch. All work must be done in compliance with Openreach's specified engineering rules and health and safety standards.

- **Pole Furniture**
- **Chambers**
- **Overhead Fibre Cable**
- **Underground Fibre Cable**
- **Sub Duct**
- **Spine Duct**
- **Lead In Duct**
- **Blown Fibre Tubing**
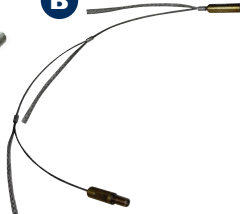- **Identification Labels**

All you need for
Broadband Speed!

A

A) S13-1825 - Mills Subduct Pulling Eye (WUD Carrot / Grip Threaded)

B

B) S00-7559 Mills Multisock Cable Grip 6-10mm

C

C) S83-1852 - Mills Back-to-Back Bracket Universal Faceplate

D

D) M99-3833 Mills Lightmate LED Work Light

E

E) E00-4720 - Mills Masterclass Heavy Duty Diagonal Cutter 160mm

F

F) S00-8432 Mills Dispenser Dropwire 2C

G

G) S83-9210 - Mills Axle Spindle Set for Dispenser Dropwire 2C
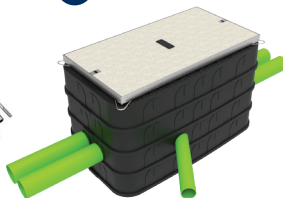
H

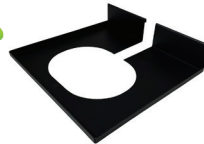**H) S13-1633 Mills Key Joint Box 5M With Magnetic Arms & Cleaning Key**

I

I) - S13-1634 Mills Magnetic Counterbalance Arms for Key Joint Box No.5

J

J) S83-4531 JMF Chambers

K

K) S83-0112 Mills Splicer Tray Enclosure Plate for CMJ and MMJ Closures

L

L) E00-0135 Mills Longitudinal Fibre Sheath Stripper 4.5mm to 11mm

M

M) S13-1370 Mills Swivel Connector - Duct Rod No.1 / No.2 to 9/11mm Cobra

N

N) M99-4018 - Mills LED Rechargeable Lamp with Magnetic Base

O

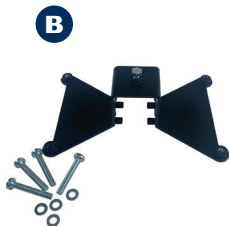**M) S83-9334 - Mills Portable Ventilator 110v with 7.5m Hose**

P

P) Brown Riser Guard 2.4m Pk10

A

**A) C00-3851
Microduct Pressure
and Integrity Tester**

B

**B) S83-5094 - Mills Mobra
Arm Mounting Kit for
CommScope C12 Series
OFDC Closures**

C

**C) C05-0061
Mills Fibre Optic
Cleaning Kit**

D

**D) E00-3819
Mills Stripmate ULW
Drop Fibre Cable Stripper**

E

**E) S83-9327
Mills Polemate Kit**

F

**F) E00-6912
Mills Fibre Stripper 1A**

G

**G) ME00-2530
Mills MasterClass Single
Hole Fibre Stripper**

H

**H) S00-9770
Mills Drum-Mate**

I
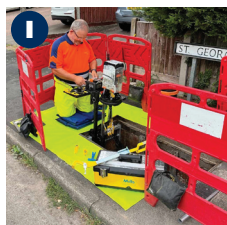
**I) S83-6621
Mills Groundsheet**

J

**J) S13-0464
Cable Drum Cones**

K

**K) S00-2544
Clip Board**

L

**L) E00-1150 Mills Loose Tube
Stripper 1.1mm to 6.0mm**

M

**M) S83-1612 Mills
Submersible Pump**

N

**N) 101-220106001
Fremco Duct Rod
Rapid Pusher**

O

**O) S83-9324 Mills
Swivel WUD Carrot**

P

**P) S13-0966 - Mills
Hydraulic Manhole Cover
Lifter 4C Complete Kit**

How to order

Simply quote our part number, quantity required, your order number or reference and delivery address - it couldn't be easier.

Telephone: **020 8833 2626**

Website: **millsltd.com**

Email: **sales@millsltd.com**

Hours of business:
Monday to Thursday 8.00am - 6.00pm
Friday 8.00am - 5.00pm

How to pay

We are happy to accept payment by the following methods:

Credit Card

Please quote your card number, start and expiry dates and security digits together with your name, address and delivery address.

Account

Accounts may be opened within 4 hours, subject to status, following receipt of a completed account application form.

Please contact our Accounts Department direct on **020 8833 2622** for further details.

Delivery

Free UK Mainland Delivery*

England, Scotland (excludes Scottish Highlands), Wales: **FREE** delivery on all in-stock orders over £100 (excl VAT). All orders under £100 to mainland UK addresses will incur a small order charge of £9.95 (excl VAT).

*Consignments over 30kg, cabinets and palletised deliveries will attract a competitive delivery price.

Next Day Pre 10.30am	£26.95
Next Day Pre 1pm	£14.95
Saturday Pre 1pm	£36.50
Northern Ireland	£29.95†

†minimum, dependent on weight and dimensions.

Northern Ireland, Channel Islands and Scottish Highlands 'next day' deliveries usually operate on a 3 working day service and will attract a competitive delivery price.

Contact Sales on **020 8833 2626** for details.

Mills M25 'Same Day' delivery

From a single parcel to a container-load delivered anywhere within the M25, just call **0208 833 2626** for an instant response to your last minute delivery requirements. (Subject to location - prices may vary).

Europe**

Mills delivers into Europe on a daily basis.

Zone 1 - 2 Days
Zone 2 - 3 Days
Zone 3 - 3/4 Days
Zone 4 - 4/5 Days
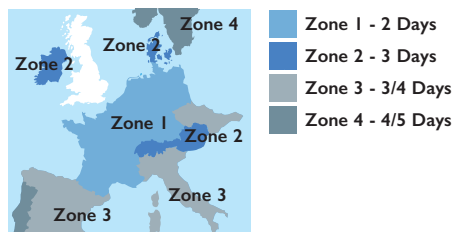
** Subject to zone - prices may vary.

Repairs and return of product

Any product being returned to Mills Ltd. for repair, calibration or exchange must be accompanied by documentation carrying a valid Mills Return Note Number. Please contact Customer Services on **020 8833 2626** for this information.

Prices given are in Pounds Sterling and may be subject to change

All prices are subject to VAT - Mills Standard Terms and Conditions apply (see page 98)

Cable, Ducting & FTTx Products

Cable, Ducting & FTTx Products

EMTELLE BLOWN FIBRE

Fibre Unit (FU) is an Emtelle developed and patented blown fibre micro cable, containing a state-of-the-art, specifically designed polymeric sheath, optimised for smooth blowing installations. The Fibre Unit meets the requirements of today, in which the cable dimensions are getting smaller and smaller – Fibre Units are characterised by their low weight, small outer diameter, easy handling and long lifetime. Supplied in pans (reels on request for longer lengths).

- Ease of handling and durability
- Compatible with industry-standard blowing equipment
- Low friction coating for best blowing results
- Supplied in a fibre pan to ease fibre handling
- Fibre beads supplied in pan to enable blowing through connectors
- Up to 2000m blowing distance
- Supplied in 2KM lengths (lengths up to 12KM available on request)
- Dry filler enabling fast stripping & handling
- Light-weight and dielectric design

Description	2 Fibre	4 Fibre	12 Fibre	24 Fibre
Colour coding				
Diameter	1.1mm	1.1mm	1.6mm	2.05mm
Weight (mass)	1.0 g/m	1.0 g/m	2.2 g/m	2.8 g/m
Breakout	Typically 2 mins for 3m			
Blowing distance	Up to 2000m dependent on microduct size			
Minimum bore size	2.1mm	2.1mm	3.5mm	3.5mm

SINGLEMODE BLOWN FIBRE (G657 A1)

PART NO.	DESCRIPTION
9506/2KM	2FU G657A1 SM BLOWN FIBRE 2KM
9507/2KM	4FU G657A1 SM BLOWN FIBRE 2KM
9510/2KM	12FU G657A1 SM BLOWN FIBRE 2KM
91077/2KM	24FU G657A1 SM BLOWN FIBRE 2KM

SINGLEMODE BLOWN FIBRE (G657 A2)

PART NO.	DESCRIPTION
90139/2KM	2FU G657A2 SM BLOWN FIBRE 2KM
91033/2KM	4FU G657A2 SM BLOWN FIBRE 2KM
90765/2KM	12FU G657A2 SM BLOWN FIBRE 2KM
91099/2KM	24FU G657A2 SM BLOWN FIBRE 2KM

EMTELLE MINICABLES (12F TO 144F)

Minicables are for blowing into the duct network. They can be installed in single microducts or tube bundles. The cables are lightweight and smaller in diameter than traditional cables, enabling a higher fibre count within a small microduct. Cable consists of stranded core with central strength element (FRP) and gel filled loose tubes with optical fibres. Stranded core is fixed by water swellable yarns. Outer sheath is made of polyamide PA12. Colour of outer sheath is black

Available colour codes are ANSI / TIA 598, DIN VDE 0888, S12, FIN2012. Supplied in reels request for longer lengths.

- Ease of handling and durability
- Compatible with industry-standard blowing equipment
- Low friction coating for best blowing results
- Supplied on reels to ease fibre handling
- Fibre beads supplied in pan to enable blowing through connectors
- Up to 2000m blowing distance
- Supplied in lengths of 2KM and 4KM (lengths up to 12KM available on request)
- Gel filled loose tubes and water blocking yarns
- Light-weight and dielectric design

EMTELLE
TOGETHER EVERYTHING CONNECTS

Description	12 Fibre	24 Fibre	48 Fibre	72 Fibre	96 Fibre	144 Fibre	144 G652D
Colour coding							
Diameter	5.8mm	5.8mm	5.8mm	5.8mm	6.5mm	8.5mm	5.4
Weight (mass)	18.6 g/m	24.5 g/m	25.2 g/m	25.9 g/m	36.8 g/m	58 g/m	18.7 g/m
Breakout	Typically 2 mins for 3m						
Blowing distance	Up to 2000m dependent on microduct size						
Loose Tube	1	2	4	6	8	12	6

MINICABLES (G657A1)

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
90692/2KM	12F MINI CABLE G657A1 BLACK (5.8MM) 2KM	90408/4KM	72F MINI CABLE G657A1 BLACK (5.8MM) 4KM
90692/4KM	12F MINI CABLE G657A1 BLACK (5.8MM) 4KM	90980/2KM	96F MINI CABLE G657A1 BLACK (6.2MM) 2KM
90693/2KM	24F MINI CABLE G657A1 BLACK (5.8MM) 2KM	90980/4KM	96F MINI CABLE G657A1 BLACK (6.2MM) 4KM
90693/4KM	24F MINI CABLE G657A1 BLACK (5.8MM) 4KM	91143/2KM	144F MINI CABLE G657A1 BLACK (8.5MM) 2KM
90409/2KM	48F MINI CABLE G657A1 BLACK (5.8MM) 2KM	91143/4KM	144F MINI CABLE G657A1 BLACK (8.5MM) 4KM
90409/4KM	48F MINI CABLE G657A1 BLACK (5.8MM) 4KM	75427/2KM	144F MINI CABLE G652D 200U BLACK (5.4MM) 2KM
90408/2KM	72F MINI CABLE G657A1 BLACK (5.8MM) 2KM	75427/4KM	144F MINI CABLE G652D 200U BLACK (5.4MM) 4KM

PRYSMIAN 36F, 48F AND 96F ULTRA LIGHT-WEIGHT ULW OVERHEAD AND UNDERGROUND CABLE

These multi-unit optical drop cables are designed for aerial and/or duct applications and are suitable for use under 11kV power cables.

The fibre is supplied in a 2km length on plywood reels, longer lengths are available on request.

A) PRYSMIAN 36F ULTRA-LIGHT WEIGHT (ULW) CABLE (2KM REEL)
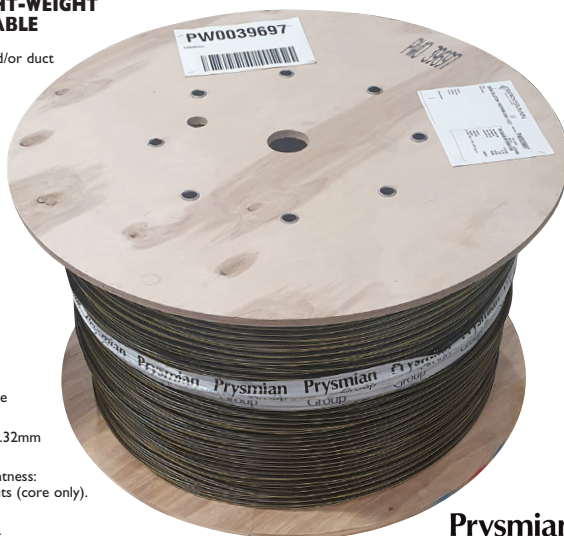
Layout: 3 x 12 singlemode fibres. Cable Diameter: 7.0mm

B) PRYSMIAN 48F ULTRA-LIGHT WEIGHT (ULW) CABLE (2KM REEL)

Layout: 4 x 12 singlemode fibres. Cable Diameter: 7.1mm

C) PRYSMIAN 96F ULTRA-LIGHT WEIGHT (ULW) (2KM REEL)

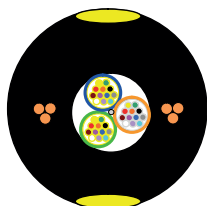Layout: 4 units x 12 fibres. Cable diameter: 7.1mm

Image shown is of the 36F variant, not to scale.

- Optical fibre: Singlemode G.657.A1.
- Strength member: 3 x 0.32mm brass plated steel wires.
- Longitudinal Water Tightness: Water swellable elements (core only).
- Inner Sheath: HDPE.
- Stripes: Indicate planes for easy sheath removal.
- 36F Drum Height: 44cm.
- 36F Drum Diameter: 80cm.
- Max Installation Tension: 1200N.
- Maximum Breaking Load: 2000N.

Prysmian Group

PART NO.	DESCRIPTION
60082615	A) 36F ULTRA-LIGHT WEIGHT (ULW) (2KM REEL)
60050990	B) 48F ULTRA-LIGHT WEIGHT (ULW) (2KM REEL)
60098854	C) 96F ULTRA-LIGHT WEIGHT (ULW) (2KM REEL)

MILLS 36F AND 48F ULTRA LIGHT-WEIGHT (ULW) OVERHEAD AND UNDERGROUND CABLE

This PIA approved multi-unit ultra light weight optical drop cable is designed for aerial and/or duct applications and is suitable for use alongside 11kV power cables. 36F is available on 2Km drums and 48F is available on 2Km and 4Km drums.

- Optical fibre: Singlemode G.657.A1
- Layout: 3 or 4 units x 12 fibres
- Embedding strength member: 3 x 0.32mm brass coated steel wires
- Moisture Barrier: Water blocking yarn and water swellable tape
- Outer sheath thickness: 1.6mm (nominal) HDPE UV Black
- Strip marking width: 1.25mm (nominal) HDPE Yellow
- Cable diameter: 7.0mm (± 0.3 mm)
- Cable Weight: 40.0Kg / km (nominal)
- Supplied on a wooden reel

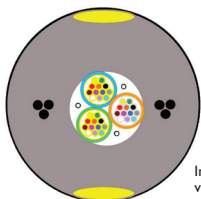Image shown is of the 36F variant, not to scale'

| PART NO.	DESCRIPTION
S83-2590	36F OPTICAL AERIAL DROP CABLE (ULW) 2KM
S83-2591	48F OPTICAL AERIAL DROP CABLE (ULW) 2KM
S83-2592	48F OPTICAL AERIAL DROP CABLE (ULW) 4KM

MICRODUCTS DIRECT BURIAL (DB)

Available in popular sizes and manufactured from high quality HDPE enabling easy placement of fibre optic cables of suitable OD.

The 65026 is a more heavy duty microduct manufactured from MDFE and benefitting from increased wall thickness and two reinforced 1.57mm GRP strength members and black stripes.

The 62751 is HDPE ribbed duct designed as a cable pathway for use in telecom networks.

Other sizes and length of microduct are available on request.
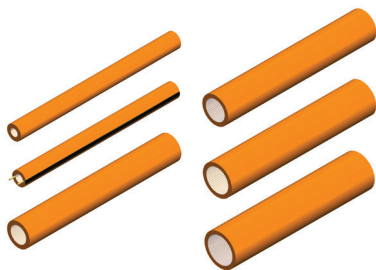
Part Number	ID mm	OD mm	Colour	Stripe	GRP Member	Ribbed
DUR-001	7mm	3.5mm	Orange	N	N	N
65026	7mm	3.7mm	Orange	Y	Y	N
60014	12mm	8mm	Orange	N	N	N
DUR-002	14mm	10mm	Orange	N	N	N
DUR-003	16mm	12mm	Orange	N	N	N
62751	18mm	14mm	Orange	N	N	Y
DUR-004	25mm	21mm	Orange	N	N	N

PART NO.	DESCRIPTION
DUR-001	7/3.5MM PRIMARY TUBE ORANGE 600M REEL
65026	7/3.7MM UNIVERSAL DROP TUBE ORANGE 2X BLACK STRIPE 1000M
60014	12/8MM PRIMARY TUBE ORANGE 2000M

PART NO.	DESCRIPTION
DUR-002	14/10MM PRIMARY TUBE ORANGE 2KM REEL
DUR-003	16/12MM PRIMARY TUBE ORANGE 2KM REEL
62751	18/14MM PRIMARY RIBBED TUBE ORANGE 2000M
DUR-004	25/21MM PRIMARY TUBE ORANGE 3KM REEL

MICRODUCT TUBE BUNDLES

The Microduct Tube Bundles are supplied in standard orange colour with black stripes for easy identification and a rip cord for ease of stripping.

They are lightweight and flexible products intended for direct installation into waiting ducts, but not for direct burial or aerial use.

Other sizes and length of microduct tube bundles are available on request.

Part Number	OD mm	No of Tubes	Colour	Stripes	Design
64951	18.4mm	7 x 5/3.5mm	Orange	Y	
64986	23.8mm	12 x 5/3.5mm	Orange	Y	
DUR-005	25.0mm	3 x 10/8mm, 3 x 5/3.5mm	Orange	Y	

PART NO.	DESCRIPTION
64951	7-WAY DIRECT INSTALL 5/3.5MM ORANGE 2X BLACK STRIPES 4000M
64986	12-WAY DIRECT INSTALL 5/3.5MM ORANGE 2X BLACK STRIPES 4000M
DUR-005	DI 6-WAY COMBO (3 X 10/8MM, 3 X 5/3.5MM) ORANGE 2KM REEL

MICRODUCT STRAIGHT CONNECTORS

Direct bury straight connectors developed for use in direct buried fibre optic applications.

The tube stop design reduces tube ovality and allows full tube insertion. This feature also reduces snagging and helps insertion of poorly cut tube. For rigidity the connectors have 30J Impact Resistance @-5°C and feature a transparent body which allows for visual inspection of tube and fibre.

5,7,8mm connectors are supplied in pkt 50 with larger sizes supplied in pkt 10.

PART NO.	DESCRIPTION
Q69-2586	MICRODUCT STRAIGHT CONNECTORS 5MM PKT OF 50
Q69-2584	MICRODUCT STRAIGHT CONNECTORS 7MM PKT OF 50
Q69-2582	MICRODUCT STRAIGHT CONNECTORS 8MM PKT OF 50
Q69-2588	MICRODUCT STRAIGHT CONNECTOR 10MM PACK OF 50
Q69-4307	MICRODUCT STRAIGHT CONNECTORS 12MM PKT OF 10
Q69-4308	MICRODUCT STRAIGHT CONNECTORS 14MM PKT OF 10
Q69-4309	MICRODUCT STRAIGHT CONNECTORS 16MM PKT OF 10
Q69-4310	MICRODUCT STRAIGHT CONNECTORS 18MM PKT OF 10
Q69-4311	MICRODUCT STRAIGHT CONNECTORS 25MM EACH

MICRODUCT END CAPS

Direct bury straight connectors developed for use in direct buried fibre optic applications.

Used for permanent end sealing of ducting systems to prevent water and dirt ingress. The cap is self-contained.

Available to suit 5,6,7,8,10,12,14,16,18 and 25mm microducts.

Supplied in pkt 10.

PART NO.	DESCRIPTION
Q69-6741	A) CONNECTOR END CAP 5MM PKT OF 10
Q69-6743	A) CONNECTOR END CAP 7MM PKT OF 10
Q69-6744	A) CONNECTOR END CAP 8MM PKT OF 10
Q69-6745	A) CONNECTOR END CAP 10MM PKT OF 10
Q69-6746	A) CONNECTOR END CAP 12MM PKT OF 10
Q69-6747	A) CONNECTOR END CAP 14MM PKT OF 10
Q69-6748	A) CONNECTOR END CAP 16MM PKT OF 10
Q69-4326	B) CONNECTOR END CAP 18MM EACH
Q69-4327	C) CONNECTOR END CAP 25MM EACH

MICRODUCT REDUCING CONNECTORS

Direct bury straight connectors developed for use in direct buried fibre optic applications.

Available for reducing and increasing microducts in a range of popular microduct sizes.

Supplied in pkt 10.

PART NO.	DESCRIPTION
Q69-2580	CONNECTOR REDUCER 6MM TO 5MM PK10
Q69-6729	CONNECTOR REDUCER 7MM TO 5MM PKT OF 10
Q69-6731	CONNECTOR REDUCER 8MM TO 5MM PKT OF 10
Q69-7691	CONNECTOR REDUCER 8MM TO 7MM PKT OF 10
Q69-6732	CONNECTOR REDUCER 10MM TO 8MM PKT OF 10
Q69-6735	CONNECTOR REDUCER 12MM TO 10MM PKT OF 10
Q69-6737	CONNECTOR REDUCER 14MM TO 12MM PKT OF 10
Q69-6738	CONNECTOR REDUCER 16MM TO 12MM PKT OF 10

GAS BLOCK CONNECTORS

The Gas Block connector provides a tube-to-tube joint and seal as well as providing a low-pressure gas seal between the inner microduct and the fibre bundle.

The gas block connector is designed to be fitted at the point where the external network 7mm microducts connects to the internal network 5mm microduct and provides a seal between the installed fibre unit and the inner area of the microduct.

Supplied in pkt 10.

PART NO.	DESCRIPTION
74665	A) 7-5MM GAS BLOCK CONNECTOR PK10
71110	B) 7MM GAS BLOCK STRAIGHT CONNECTOR 1.0MM TO 1.6MM PK10
71533	B) 7MM GAS BLOCK STRAIGHT CONNECTOR 1.8MM TO 2.4MM PK10

COLLET LOCKING TOOL

Used to securely lock microduct joiners and connectors.

PART NO.	DESCRIPTION
E00-0451	COLLET LOCKING TOOL

MILLS TUBE MEASURING GAUGE

A handy tool for measuring the inside and outside diameter of blown fibre tubes.
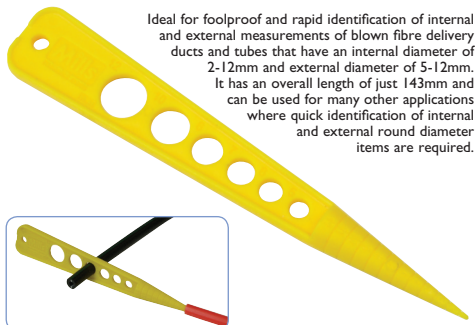
Ideal for foolproof and rapid identification of internal and external measurements of blown fibre delivery ducts and tubes that have an internal diameter of 2-12mm and external diameter of 5-12mm. It has an overall length of just 143mm and can be used for many other applications where quick identification of internal and external round diameter items are required.

PART NO.	DESCRIPTION
E00-6124	MILLS TUBE MEASURING GAUGE

MINIDUCT SEALS

The Divisible Fibre Restraints are an easy-to-install Gas and Watertight seal suitable for sealing microducts.

The miniduct seal is easy to install on new installations and existing installations (retrofit).

Available for 5,6,7 and 8mm microducts and supplied in pkt 100.

PART NO.	DESCRIPTION
71720	MINIDUCT SEAL 5MM/1.25MM (X100)
72318	MINIDUCT SEAL 5MM/2.1MM (X100)
73572	MINIDUCT SEAL 6MM/0.9MM (X100)
73573	MINIDUCT SEAL 6MM/1.6MM (X100)
72319	MINIDUCT SEAL 7MM/1.6MM (X100)
71724	MINIDUCT SEAL 7MM/2.5MM (X100)
73234	MINIDUCT SEAL 8MM/0.9MM (X100)

SPLIT CABLE SEALS

Divisible mini-duct sealing plug sets developed to provide an effective and simple solution for gas and watertight duct sealing requirements. The modular system enables installation in new and existing situations.

Supplied as 2 half-shells and a split rubber seal.

Available for 14,16,18 and 25mm ducts and supplied in pkt 25.

PART NO.	DESCRIPTION
71833	SPLIT CABLE SEAL 14/5.0-6.5MM (X25)
71170	SPLIT CABLE SEAL 14/8.0-10.0MM (X25)
71171	SPLIT CABLE SEAL 16/8.0-6.5MM (X25)
71978	SPLIT CABLE SEAL 16/5.0-6.5MM (X25)
71172	SPLIT CABLE SEAL 16/10.0-8.0MM (X25)
71173	SPLIT CABLE SEAL 18/9.4-12.0MM (X25)
75727	SPLIT CABLE SEAL 25 (4.7-6.5MM) (X25)
75728	SPLIT CABLE SEAL 25 (6.5-8.5MM) (X25)

TUBE DISTRIBUTION CLOSURE

The Tube Distribution Closure (TDC) is IP 40 rated and can be Direct Buried into a waiting trench or placed inside a manhole or handhole.

Dimensions: Length: 316mm (12.4") Width: 220mm (8.7") Height: 70mm (2.8").

Supplied in a pack of 10.

PART NO.	DESCRIPTION
7514	TUBE DISTRIBUTION CLOSURE (PK10)

PRYSMIAN OVERBLOW SEAL KIT 25 - 14MM PK10

Closure utilised by trained overblow installation teams installing optical fibre cable into occupied 25mm subduct.

Supplied in a pkt 10.

Ref 093108.

PART NO.	DESCRIPTION
XBFSC02085A	PRYSMIAN OVERBLOW SEAL KIT 25 - 14MM (PK10)

EM WRAP MICRODUCT CLOSURE

The single layer EM-Wrap closure when wrapped around tube bundles, gives mechanical protection when buried in the ground, installed in access chambers, or used in overhead networks.

The Emwrap closure has been designed to fit over tube bundles, when a joint or branch is required. It is ideal for FTTH applications, whether the microducts are overhead, ducted or buried.

The installation is easy by simply wrapping the rubber sheath around the tube bundles and inserting the tabs through their corresponding openings to form a sealed wrap.

Cable ties are then applied to secure the closure in place The double wrap version provided IP67 rating when used with amalgamating tape.

PART NO.	DESCRIPTION
S00-3852	EM WRAP SINGLE WRAP MICRODUCT CLOSURE
S00-4302	EM WRAP DOUBLE WRAP MICRODUCT CLOSURE

PVC PRIMARY DUCT SYSTEM 96.5MM OD (90MM ID) GREY (DUCT 54)

Socketed at one end & plain at the other end together with full range of accessories.

- Manufactured from virgin PVC-U polymer = 100% reliable performance.
- Duct systems are manufactured to Industry Standard BSEN 61386.
- Solid wall construction, capable of being back-filled where appropriate and not affected by sharp stone impingement.
- Smooth bore ensuring easier and safer installation of sub-ducts and cables owing to lower internal friction.
- Standard interference fit/push fit socket systems & ring seal socket systems.
- Supplied in stillage of 115 x 6m length.

PART NO.	DESCRIPTION
S83-5056	A) GREY DUCT 96.5MM X 6M LENGTH PK OF 115
S83-4784	B) GREY SPLIT DUCT 3M X 96.5MM – PALLET OF 168
S83-5057	C) GREY 96.5MM 18 DEGREE BEND (EACH)
S83-5058	D) GREY 96.5MM 22.5 DEGREE BEND (EACH)
S83-5059	E) GREY 96.5MM 45 DEGREE BEND (EACH)
S83-5060	F) GREY 96.5MM 90 DEGREE BEND (EACH)
S83-5061	G) GREY 96.5MM CONNECTOR SLEEVE (EACH)
S83-5062	H) GREY SWEPT TEE 96.5 TO 53.9MM (EACH)
S83-4515	I) GREY SPLIT SWEPT TEE 96.5MM TO 53.9MM (EACH)
S83-6050	J) STRIP DUCT 54A - PACK OF 20
S83-4513	K) GREY 96.5MM TO 53.9MM REDUCER (EACH)
S83-4520	L) PLUG DUCT 4B RED (FOR 96.5MM DUCT SOCKET) PK50
S83-4521	M) PLUG DUCT 4C YELLOW (FOR 96.5MM DUCT SPIGOT) PK50
S83-2776	N) GREY DUCT REPAIR KIT 3A (EACH)
S83-3330	O) GLAND CAULKING NO. 2 (EACH)
S83-3332	P) DISC CAULKING NO. 1 (EACH)
S83-1830	Q) DISC CAULKING NO. 2 (EACH)

PVC PRIMARY DUCT SYSTEM 96.5MM OD (90MM ID) GREEN

Socketed at one end & plain at the other end together with full range of accessories.

- Manufactured from virgin PVC-U polymer = 100% reliable performance.
- Duct systems are manufactured to Industry Standard BSEN 61386.
- Solid wall construction, capable of being back-filled where appropriate and not affected by sharp stone impingement.
- Smooth bore ensuring easier and safer installation of sub-ducts and cables owing to lower internal friction.
- Standard interference fit/push fit socket systems & ring seal socket systems.
- Supplied in stillage of 115 x 6m length.
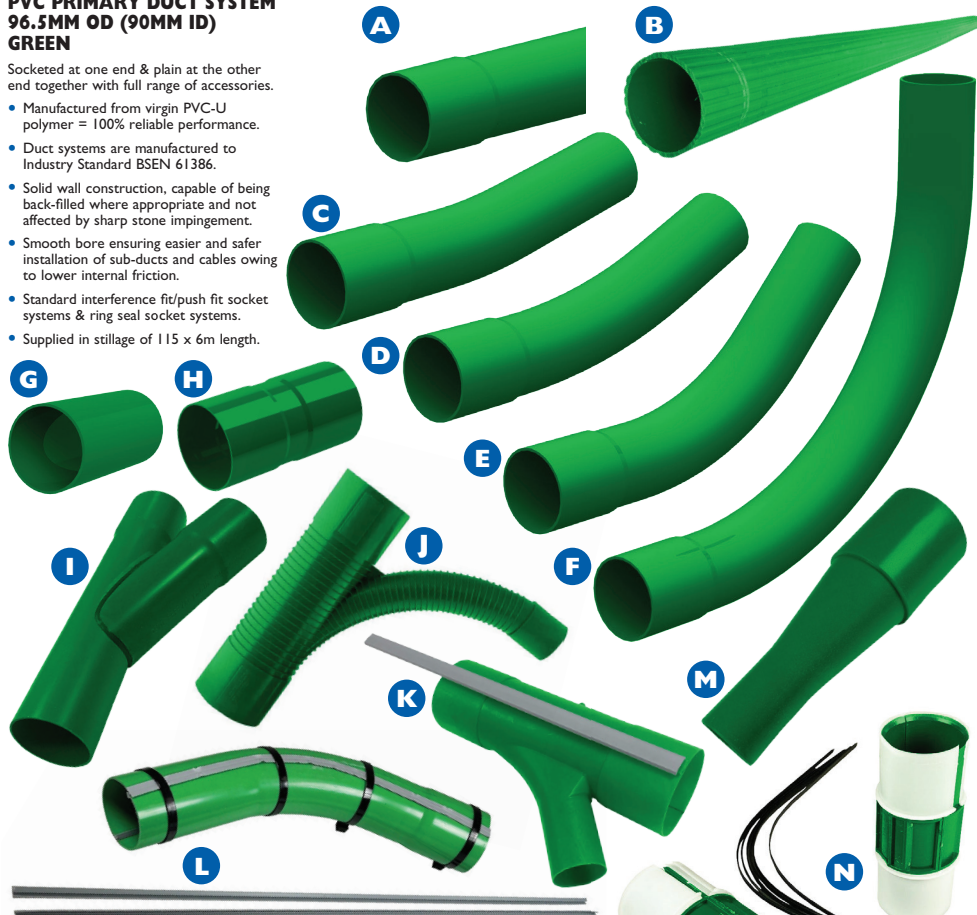
PART NO.	DESCRIPTION
S83-5031	A) GREEN DUCT 96.5MM X 6M LENGTH PK OF 115
S83-5511	B) GREEN SPLIT DUCT 3M X 96.5MM – PALLET OF 168
S83-5032	C) GREEN 96.5MM 11.25 DEGREE SHORT BEND (EACH)
S83-5033	D) GREEN 96.5MM 22.5 DEGREE SHORT BEND (EACH)
S83-5034	E) GREEN 96.5MM 45 DEGREE SHORT BEND (EACH)
S83-5035	F) GREEN 96.5MM 90 DEGREE BEND (EACH)
S83-5036	G) GREEN 96.5MM CONNECTOR SLEEVE (EACH)
S83-5037	H) GREEN 96.5MM DOUBLE SOCKET CONNECTOR SLEEVE (EACH)
S83-5038	I) GREEN 96.5MM Y BRANCH / DUCT TEE (EACH)
S83-5039	J) GREEN SWEPT TEE 96.5MM TO 53.9MM (EACH)
S83-4516	K) GREEN SPLIT SWEPT TEE 96.5MM TO 53.9MM (EACH)
S83-6050	L) STRIP DUCT 54A - PACK OF 20
S83-4514	M) GREEN 96.5MM TO 53.9MM REDUCER (EACH)
S83-4512	N) GREEN DUCT REPAIR KIT 3A (EACH)
S83-4520	O) PLUG DUCT 4B RED (FOR 96.5MM DUCT SOCKET) PK50
S83-4521	P) PLUG DUCT 4C YELLOW (FOR 96.5MM DUCT SPIGOT) PK50
S83-3330	Q) GLAND CAULKING 2 (EACH)
S83-3332	R) DISC CAULKING NO. 1 (EACH)
S83-1830	S) DISC CAULKING NO. 2 (EACH)

PVC PRIMARY DUCT SYSTEM 53.9MM OD (50MM ID) GREY (DUCT 56)

Socketed at one end & plain at the other end together with full range of accessories.

- Manufactured from virgin PVC-U polymer = 100% reliable performance.
- Duct systems are manufactured to Industry Standard BSEN 61386.
- Solid wall construction, capable of being back-filled where appropriate and not affected by sharp stone impingement.
- Smooth bore ensuring easier and safer installation of sub-ducts and cables owing to lower internal friction.
- Standard interference fit/push fit socket systems & ring seal socket systems.
- Supplied in stillage of 370 x 3m length.
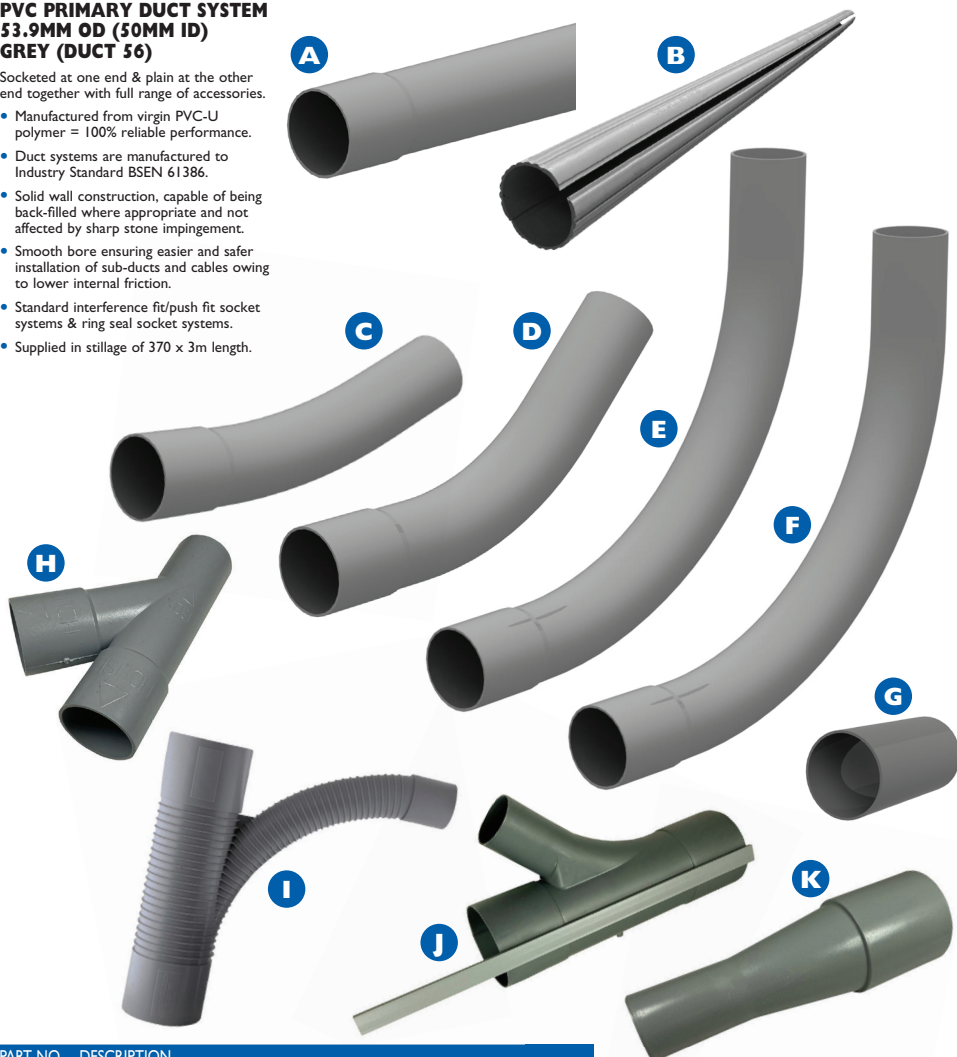
PART NO.	DESCRIPTION
S83-5064	A) GREY DUCT 53.9MM X 3M LENGTH PK OF 370
S83-4519	B) GREY SPLIT DUCT 3M X 53.9MM (EACH)
S83-4619	GREY SPLIT DUCT 3M X 53.9MM – PALLET OF 110
S83-5065	C) GREY 53.9MM 22.5 DEGREE BEND (EACH)
S83-5066	D) GREY 53.9MM 45 DEGREE BEND (EACH)
S83-5067	E) GREY 53.9MM 90 DEGREE BEND (200MM RADIUS) (EACH)
S83-5068	F) GREY 53.9MM 90 DEGREE BEND (592MM RADIUS) (EACH)
S83-5069	G) GREY 53.9MM CONNECTOR SLEEVE (EACH)
S83-4517	H) GREY 53.9MM Y BRANCH (DUCT TEE 56/56) (EACH)
S83-5062	I) GREY SWEPT TEE 96.5 TO 53.9MM (EACH)
S83-4515	J) GREY SPLIT SWEPT TEE 96.5MM TO 53.9MM (EACH)
S83-4513	K) GREY 96.5MM TO 53.9MM REDUCER (EACH)
S83-3331	L) GLAND CAULKING 3 (EACH)
S83-3333	M) DISC CAULKING NO. 4 (EACH)
S83-4525	N) PLUG DUCT 1A (BLACK FOAM) 53.9MM BAG OF 100

PVC PRIMARY DUCT SYSTEM 53.9MM OD (50MM ID) GREEN

Socketed at one end & plain at the other end together with full range of accessories.

- Manufactured from virgin PVC-U polymer = 100% reliable performance.
- Duct systems are manufactured to Industry Standard BSEN 61386.
- Solid wall construction, capable of being back-filled where appropriate and not affected by sharp stone impingement.
- Smooth bore ensuring easier and safer installation of sub-ducts and cables owing to lower internal friction.
- Standard interference fit/push fit socket systems & ring seal socket systems.
- Supplied in stillage of 370 x 3m length.
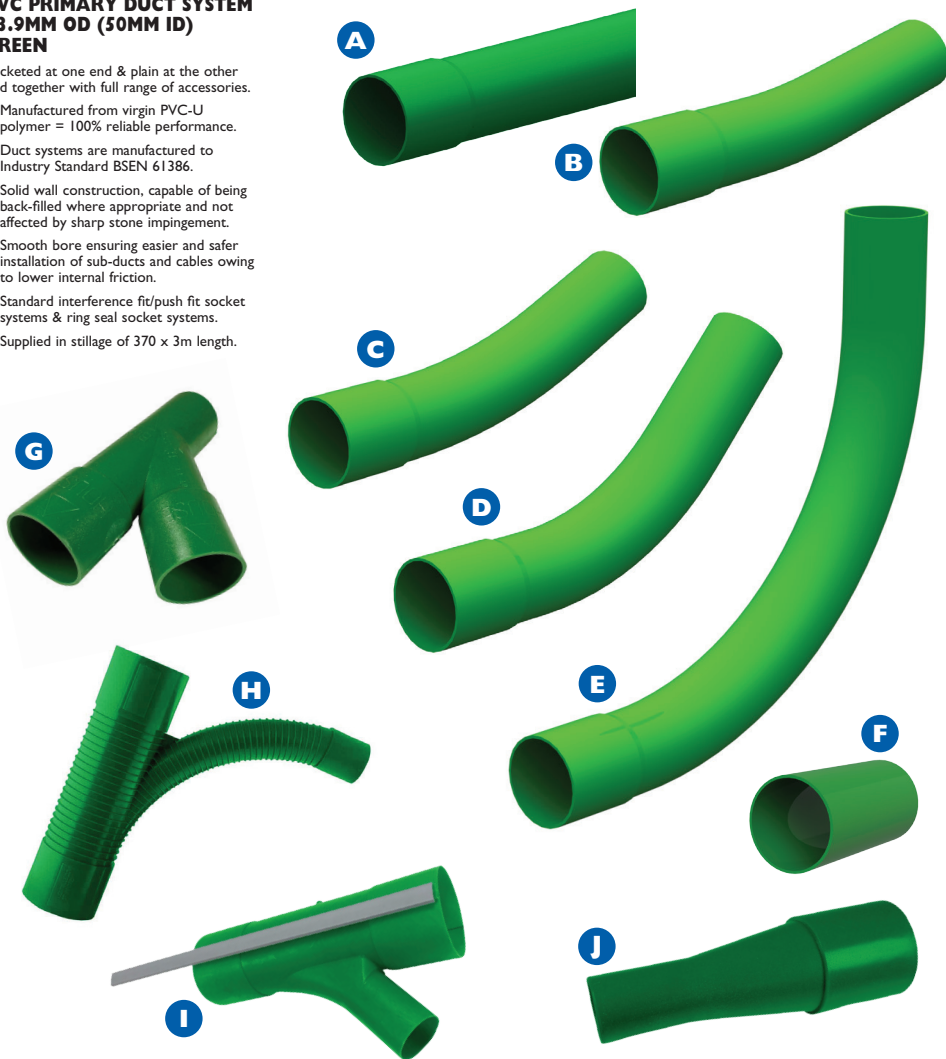
PART NO.	DESCRIPTION
S83-5042	A) GREEN DUCT 53.9MM X 3M LENGTH PK OF 370
S83-5044	B) GREEN 53.9MM 11.25 DEGREE BEND (EACH)
S83-5045	C) GREEN 53.9MM 22.5 DEGREE BEND (EACH)
S83-5049	D) GREEN 53.9MM 45 DEGREE BEND (EACH)
S83-5051	E) GREEN 53.9MM 90 DEGREE BEND (EACH)
S83-5053	F) GREEN 53.9MM CONNECTOR SLEEVE (EACH)
S83-4518	G) GREEN 53.9MM Y BRANCH / DUCT TEE (EACH)
S83-5039	H) GREEN SWEPT TEE 96.5MM TO 53.9MM (EACH)
S83-4516	I) GREEN SPLIT SWEPT TEE 96.5MM TO 53.9MM (EACH)
S83-4514	J) GREEN 96.5MM TO 53.9MM REDUCER (EACH)
S83-3331	K) GLAND CAULKING 3 (EACH)
S83-3333	L) DISC CAULKING NO. 4 (EACH)
S83-4525	M) PLUG DUCT 1A (BLACK FOAM) 53.9MM BAG OF 100

SPLIT DUCT & DUCT REPAIR KITS

To repair duct 11 & 12.

PART NO.	DESCRIPTION
S83-5071	GREY SPLIT DUCT 59A (PALLET OF 216)
S83-6020	GREY SPLIT DUCT 57 (PALLET OF 126)
S83-0791	DUCT REPAIR KIT 2A FOR REPAIRING DUCT 11 (3" SAD)
S83-0790	DUCT REPAIR KIT 4A FOR REPAIRING DUCT 12 (4" SAD)

FILOSEAL+ HD FIRE DUCT SEALING KIT 75 - 110MM

FiloSeal+HD FIRE provides a strong support system using the fire resistant hexagonal blocks made of specially formulated material called 'Formite' which builds up like a honeycomb structure ideal for sealing empty or any cable configuration or pipes contained in one duct. It also allows easy re-entry of the seal to add or remove cables or pipes as required.

Fire resistant - tested to BS EN1366-3 2009

Supplied in a 310ml Cartridge.

PART NO.	DESCRIPTION
S83-0759	FILOSEAL+ HD FIRE DUCT SEALING 75 - 110MM

FILOSEAL+ HD DUCT SEALING KIT 75-110MM

FiloSeal+HD is an engineered solution that provides a strong support system using hexagonal tubes which build up like a honeycomb structure. FiloSeal+HD is suitable for sealing any cable configuration or pipes contained in one duct and also allows easy re-entry of the seal to add or remove cables or pipes as it is ideal for sealing larger heavy cables and pipes in ducts, boreholes or transit frames providing up to 2 bar Pressure Resistance 100Kg Pulling Force on the cables when sealed 10xd at 45°, with 1 bar pressure bending test.

Supplied in a 310ml Cartridge.

PART NO.	DESCRIPTION
S83-0758	FILOSEAL+ HD DUCT SEALING KIT 75-110MM

FILOSEAL+ DUCT SEALING KIT 75 - 125MM

Duct sealing system FiloSeal+ is a universal solution for sealing cables and pipes in ducts or bore holes. FiloSeal+ is suitable for sealing several cables or pipes contained in one duct up to 125mm diameter and also allows re-entry of the seal to add or remove cables or pipes as required.

Supplied in a 310ml Cartridge.

PART NO.	DESCRIPTION
S83-0756	FILOSEAL+ DUCT SEALING KIT 75 - 125MM

FILOSEAL+ DUCT SEALING KIT 150 - 200MM

Duct sealing system FiloSeal+ is a universal solution for sealing cables and pipes in ducts or bore holes. FiloSeal+ is suitable for sealing several cables or pipes contained in one duct up to 200mm dimeter and also allows re-entry of the seal to add or remove cables or pipes as required.

Supplied in a 310ml Cartridge.

PART NO.	DESCRIPTION
S83-0757	FILOSEAL+ DUCT SEALING KIT 150 - 200MM

NOFIRNO DUCT SEALANT KIT 1A

Approved by Openreach the NOFIRNO silicone-based sealant is used for providing new duct seals or maintaining existing seals when adding or removing cables. It can be used in Exchange Cable Chambers and serving manholes, commercial premises and MDUs with services cupboards or central risers.

• Fire rated version available certified to BS EN1366-3
• Quick and easy to install in both horizontal & vertical ducts
• Resistant to submersion in Petrol and Diesel
• Resistant to Methane, Hydrogen Sulphide and Chlorine
• Ensures WIMES, APEA, ATEX & DSEAR compliance

Ref: 048330

PART NO.	DESCRIPTION
S83-0117	NOFIRNO DUCT SEALANT KIT 1A

A) POLYWATER ZIP SEAL DUCT SEALANT KIT

A Closed-Cell Foam Duct Sealing System for conduit sizes up to 50mm (2 inch). ZipSeal™ Duct Sealant is a practical and efficient way to seal small conduits and communication innerducts. The revolutionary Zip-Disc™ insert traps and keeps the foaming liquid in its open-cell centre area.

The unique two-part foam installs quickly and effectively. The innovative design of the Zip-Disc™ insert allows for horizontal and vertical installation with minimal drippage. Cured foam blocks can be removed and re-entered relatively quickly if necessary.

ZipSeal™ Duct Sealant holds up to 10 feet (3.0 m) water-head pressure to keep gases and rodents out of conduits.

B) POLYWATER ZIP SEAL DISPENSING TOOL

Polywater TOOL-50-11 Dispensing Tool for use with S83-7601 Polywater Zip Seal Duct Sealant Kit.

PART NO.	DESCRIPTION
S83-7601	A) POLYWATER ZIP SEAL DUCT SEALANT KIT
S83-7628	B) POLYWATER ZIP SEAL DISPENSING TOOL

A) TDUX-IT-16 INFLATION TOOL

Inflation Tool for use with TDUX kits. Uses CO_2 Gas Cylinders which contain 16g of CO_2 and can inflate a minimum of 3 TDUX-100 duct seals in vacant ducts. Features an automatic pressure monitoring system to guarantee the required inflation pressure of 3.0 ± 0.2 Bar. Supplied with carry case.

CO_2 Gas Cylinders NOT included.

A

B) TDUX GAS CYLINDER (PK10)

CO_2 Gas Cylinder containing 16g of CO_2.

B

C

C) TDUX-IG-SR-AS INFLATION GUN

Inflation gun to be connected to a pressurised air bottle, pump or compressor, having an outlet pressure of 4 to 10 bar to feed the inflation gun. The inflation gun is designed with a safety relief valve and audio signal device to facilitate the installation.

COMMSCOPE®

PART NO.	DESCRIPTION
TDUX-IT-16	A) TDUX DUCT INFLATION TOOL
E7512-0160-10	B) TDUX GAS CYLINDERS (PK10)
S83-4742	C) TDUX-IG-SR-AS INFLATION GUN

TDUX KITS

TDUX is a unique inflatable wraparound duct sealing system for permanently sealing telephone cable ducts in order to prevent the leakage of water from the duct into exchange vaults or manholes.

- Suitable for use with plastic, concrete or steel ducting wall-feedthrough systems.
- Can be used with polyethylene or lead-jacketed cables.
- Duct Inflation Tool required.

Note: TDUX kit will seal vacant ducts and ducts occupied with 1 or 2 cables.

To seal ducts occupied with more than 2 cables, TDUX-CL clips are available as separate items. Call sales for further information.

Features

- Fast and easy to install, even in congested enclosures, requiring only three parts for completion.
- Very flexible and reliable wraparound sealing system.
- Independent of duct or cable ovality
- Can be installed while water is flowing out of the duct.
- Water and airtight up to 50 kPa.
- Environmentally friendly and non-toxic.
- Resistant to chemicals and bacteria.
- Easy and fast removal.

PART NO.	PACK QTY	DUCT INSIDE DIAMETER RANGE		CORRESPONDING OUTSIDE DIA RANGE FOR 1/2 CABLES	
		MIN	**MAX**	**IN MIN. DUCT**	**IN MAX. DUCT**
TDUX-45-INT	10	32.5	45	0-14	0-32
TDUX-60-INT	10	45	60	0-18	0-45
TDUX-75-INT	10	55	75	0-28	0-56
TDUX-90-INT	10	60	100	0-22	0-83
TDUX-100-INT	10	45	110	0-45	0-90
TDUX-125-INT	10	110	125	0-83	0-103

TDUX CLIP SEALS

One TDUX clip seals up to four cables. If more cables are to be sealed, use one extra clip per three additional cables.

Supplied in a packs of 5.

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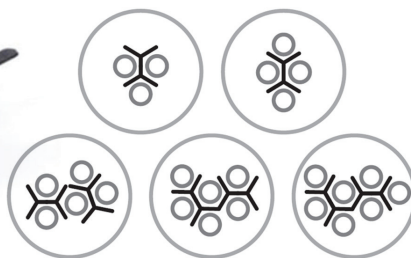
PART NO.	DESCRIPTION
TDUX-CL-20	DUCT CABLE CLIP SIZE 20 PK5
TDUX-CL-40	DUCT CABLE CLIP SIZE 40 PK5
TDUX-CL-60	DUCT CABLE CLIP SIZE 60 PK5
TDUX-CL-80	DUCT CABLE CLIP SIZE 80 PK5

COVER 101A

Cable entry cover for running service cabling into a house or premises. For use with Capping 25 and Connector Bend No. 4.

Dimensions: 105mm x 78mm x 28mm.

Ref: 071987.

A   B   C

Available in **GREY**, **BROWN** & **WHITE.**

PART NO.	DESCRIPTION
S83-1775	A) COVER 101A - GREY
S83-4748	B) COVER 101A - BROWN
S83-1970	C) COVER 101A - WHITE

CAPPING 25

PVC Capping to protect service cabling between Connector Bend No 4 and Cover 101A.

Length 500mm.

Ref: 072180.

B   A   C

Available in **GREY**, **BROWN** & **WHITE.**

PART NO.	DESCRIPTION
S83-1779	A) CAPPING 25 - GREY
S83-4749	B) CAPPING 25 - BROWN
S83-1973	C) CAPPING 25A - WHITE

CONNECTOR BEND NO. 4

Connects Duct 102 or Duct 56 to cover 101A on Housing Estates.

Ref: 095056.

A   B   C
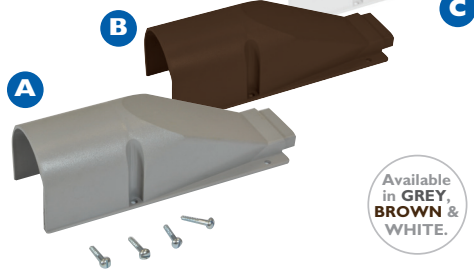
Available in **GREY**, **BROWN** & **WHITE.**

PART NO.	DESCRIPTION
S83-2759	A) CONNECTOR BEND NO. 4 - GREY
S83-4907	B) CONNECTOR BEND NO. 4 - BROWN
S83-1979	C) CONNECTOR BEND NO.4 - WHITE

CABLE ENTRY COVERS

Exterior wall cover for protecting cable entry on external walls. Helps to prevent water ingress especially when drilling has caused the brick to burst. 100mm x 100 mm square. Available in Black, White, Stone and Brown.

Fixed to walls with silicone adhesive or Gripfill.

A   B   C   D
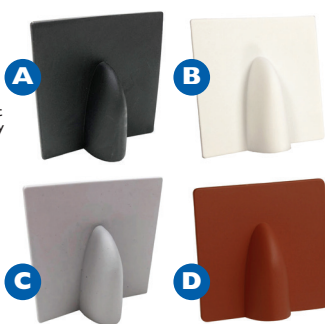
PART NO.	DESCRIPTION
Q69-1686	A) CABLE ENTRY COVER BLACK
Q69-1687	B) CABLE ENTRY COVER WHITE
Q69-1688	C) CABLE ENTRY COVER STONE
Q69-4088	D) CABLE ENTRY COVER BROWN

CUSTOMER LEAD IN & COVERS AND CONDUIT

A) INTERNAL CUSTOMER LEAD IN & COVER (WHITE)
Used to cover, control and protect fibre optic cable where it emerges inside the premises. Typically used where the customer box is either outside the premises or not directly opposite where the cable comes through the wall from outside.

Comprising: 1 x CLI and 1 x Internal Cover White. Ref 061825.

B) EXTERNAL CUSTOMER LEAD IN & COVER (GREY)
Used to cover, control and protect fibre optic cable where it emerges outside the premises. Typically used where the customer box is either outside the premises or not directly opposite where the cable comes through the wall from outside.

Comprising: 1 x CLI and 1 x External Cover Grey.

C) EXTERNAL CUSTOMER LEAD IN & COVER (BROWN)
Used to cover, control and protect fibre optic cable where it emerges outside the premises. Typically used where the customer box is either outside the premises or not directly opposite where the cable comes through the wall from outside.

Comprising: 1 x CLI and 1 x External Cover Brown.

D) CUSTOMER LEAD IN CONDUIT 500MM THICK WALL PK10
Used with Internal and External kits (S83-4330, S83-4329 and S83-5084) in situations where the wall is thicker than 300mm. Supplied in a pack of 10. Ref 061827.

A   B   C   D
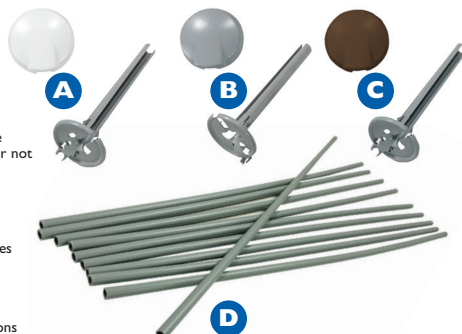
PART NO.	DESCRIPTION
S83-4330	A) INTERNAL CUSTOMER LEAD-IN KIT - WHITE
S83-4329	B) EXTERNAL CUSTOMER LEAD IN KIT - GREY

PART NO.	DESCRIPTION
S83-5084	C) EXTERNAL CUSTOMER LEAD IN KIT - BROWN
S83-4526	D) CUSTOMER LEAD IN CONDUIT 500MM THICK WALL PK10
S83-4529	D) CUSTOMER LEAD IN CONDUIT 300MM THICK WALL PK10

BLOWN FIBRE EXTERNAL CLI BASE & COVER MINI

External cable entry cover with a 30mm bend radius to allow blowing of the fibre after installation. It is for use when a gas block is not required at the customer entry point. It can be used with cable sizes up to 6mm and can be used in conjunction with: S83-1786 D Tube External Capping.

Comprising:
1 x External CLI Cover Mini
1 x External CLI Base Mini
2 x screws.

Available in **GREY**, **BROWN** & **WHITE**.

PART NO.	DESCRIPTION
S83-1777	A) EXTERNAL CLI BASE & COVER MINI - GREY
S83-4909	B) EXTERNAL CLI BASE & COVER MINI - BROWN
S83-1985	C) EXTERNAL CLI BASE & COVER MINI - WHITE

BLOWN FIBRE EXTERNAL CLI CONNECTOR BEND ADAPTOR

FBT0900 - Blown Fibre External CLI Connector Bend Adaptor. Adaptor used to connect S83-1786 D Tube External Capping with S83-2759 Connector Bend No.4.

Available in **GREY**, **BROWN** & **WHITE**.
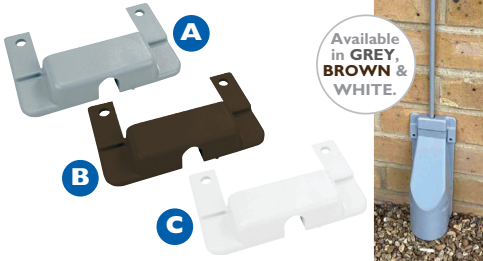
PART NO.	DESCRIPTION
S83-1781	A) EXTERNAL CLI CONNECTOR BEND ADAPTOR - GREY
S83-4990	B) EXTERNAL CLI CONNECTOR BEND ADAPTOR - BROWN
S83-1991	C) EXTERNAL CLI CONNECTOR BEND ADAPTOR - WHITE

D TUBE EXTERNAL CAPPING

D Tube External Capping connects with S83-1777 Blown Fibre External CLI Base & Cover Mini and S83-1781 Blown Fibre External CLI Connector Bend Adaptor.

Length: 500mm.

Available in **GREY**, **BROWN** & **WHITE**.

PART NO.	DESCRIPTION
S83-1786	A) D TUBE EXTERNAL CAPPING - GREY
S83-4609	B) D TUBE EXTERNAL CAPPING - BROWN
S83-1969	C) D TUBE EXTERNAL CAPPING - WHITE

NEW SITE CAPPING

Capping to protect service cabling between New Site Connector Bend and either Cover 101A, Blown Fibre External or Hybrid Drop Splice Box.

Length 500mm.

Available in **GREY**, **BROWN** & **WHITE**.

PART NO.	DESCRIPTION
S83-1783	A) NEW SITE CAPPING - GREY
S83-4903	B) NEW SITE CAPPING - BROWN
S83-1976	C) NEW SITE CAPPING - WHITE

BLOWN FIBRE EXTERNAL CUSTOMER LEAD IN

Comprising:
1 x External CLI Cover
1 x External CLI Base
4 x screws
Ref: 061826.

Available in **GREY**, **BROWN** & **WHITE**.

PART NO.	DESCRIPTION
S83-1778	A) EXTERNAL CUSTOMER LEAD IN - GREY
S83-4910	B) EXTERNAL CUSTOMER LEAD IN - BROWN
S83-1988	C) EXTERNAL CUSTOMER LEAD IN - WHITE

NEW SITE CONNECTOR BEND

For use outside the premises where cables emerge from under ground and can be used to connect with Duct 102 or Duct 56 and S83-1783.

Ref: 101557.

Available in **GREY**, **BROWN** & **WHITE**.

PART NO.	DESCRIPTION
S83-1782	A) NEW SITE CONNECTOR BEND - GREY
S83-4908	B) NEW SITE CONNECTOR BEND - BROWN
S83-1982	C) NEW SITE CONNECTOR BEND - WHITE

PRYSMIAN HDB4 HYBRID DROP SPLICE BOX

The Hybrid Drop Box (HDB4) is a wall mounted product used for the splicing of up to 4 fibres and up to four customer drop cables.

The HDB4 can accommodate cables from 3 to 7 mm and is supplied with an extra knock-out port on the back for through wall applications.

Dimensions: (h)190mm x (w)110mm x (d)40mm.

Available in 3 options;

A) XCPSC03029 Prysmian HDB4 Hybrid Drop Box Splice Only

B) XCPSC03044 Prysmian HDB4 Hybrid Drop Box 2x LC/APC Duplex

C) XCPSC03043 Prysmian HDB4 Hybrid Drop Box 2x SC/APC Simplex

PART NO.	DESCRIPTION
XCPSC03029	A) HDB4 HYBRID DROP BOX SPLICE ONLY
XCPSC03044	B) HDB4 HYBRID DROP BOX 2X LC/APC DUPLEX
XCPSC03043	C) HDB4 HYBRID DROP BOX 2X SC/APC SIMPLEX

PRYSMIAN RISER BOX (4 AND 8 TRAY)

The Riser Box Multi Tray (RBMT) is designed for use within apartment blocks and mid/high rise office blocks. The unit houses either 8 splice trays, or 4 splice trays and a module storage area. Each splice tray is able to accommodate 8 fibre splices.

Dimension: (h) 176mm x (w) 130mm x (d) 60mm.
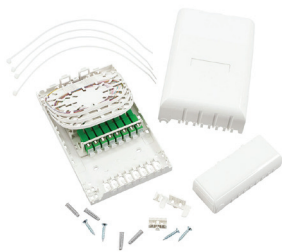
PART NO.	DESCRIPTION
XCPSC01159	A) PRYSMIAN RISER BOX 4 TRAY
XCPSC03170	B) PRYSMIAN RISER BOX 8 TRAY

PRYSMIAN FLEXIBOX TERMINATION BOX 24SCA

The Flexi-termination box has been designed for internal/external use with up to 8 splice trays, an oval port and up to 48 inputs for up to 48 pre-terminated cables.

Flexibox termination box 24SCA with pigtails, 48 splices, internal with security lock, loop storage, entry system B.

Dimensions: (h) 345mm x (w) 272mm x (d) 105mm

PART NO.	DESCRIPTION
XCPSC04097	PRYSMIAN FLEXIBOX TERMINATION BOX 24SCA

PRYSMIAN CTB MK3 COMPACT TERMINATION BOX 4 FIBRE

Prysmian CTB MK3 equipped with four pigtails 900 microns G.657. A2 and four SC/APC-SC/APC inner-shuttered adaptors.

The Compact Termination Box MK3 (CTB MK3) is designed for use in residential and business applications for the termination of up to four optical fibres. The wall box enables the termination of a customer drop cable onto SC/APC type pigtails and adaptors.
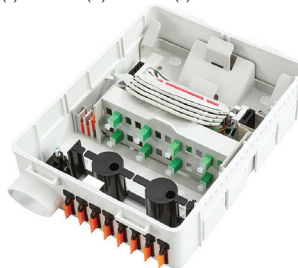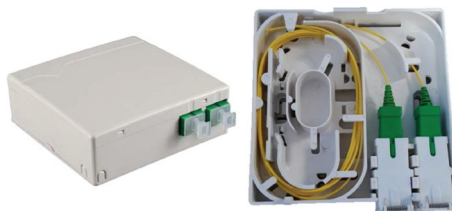
Dimensions:
(l) 80mm x
(w) 80mm x
(d) 28mm.

PART NO.	DESCRIPTION
XCPSC02857	PRYSMIAN CTB MK3 COMPACT TERMINATION BOX 4 FIBRE

PRYSMIAN COMPACT TERMINATION BOX CTB LITE 2F

The Compact Termination Box Lite (CTB Lite) is designed for use in residential and business applications for the termination of up to two optical fibres. The wall box enables the termination of a customer drop cable onto SC/APC type pigtails and adaptors. The unit is supplied with two fixing screws for mounting directly onto a wall.

Dimensions: (l) 80mm x (w) 80mm x (d) 26mm.

PART NO.	DESCRIPTION
XCPSC03131	PRYSMIAN COMPACT TERMINATION BOX CTB LITE 2F

PRYSMIAN DISTRIBUTION WALL BOXES

Available in 3 sizes:

A) Prysmian SDWB Small Distribution Wall Box 220 x 150 x 50mm

The Small Distribution Wall box is a wall mounted product used for the distribution of fibres to up to six customer drop cables. Each customer has an individual splice tray that can house up to four splices. Customer drop cables of 3 to 6mm can be distributed from the box.

B) Prysmian MDWB Medium Distribution Wall Box 307 x 400 x 131mm

The unit has a capacity of up to 168 fibre splices and can accommodate input cables of both butt and inline types.

Up to thirty two customer drop cables of 3-6mm in diameter, and four customer drop cables of 6-12mm in diameter, can be distributed from the box.

C) Prysmian LDWB Large Distribution Wall Box 320 x 410 x 115mm

The unit has a capacity of up to 240 fibre splices and can accommodate input cables of butt, loop and inline types.

Up to 48 customer drop cables of 3-6mm in diameter and 8 customer drop cables of 6-12mm in diameter can be distributed from the box.

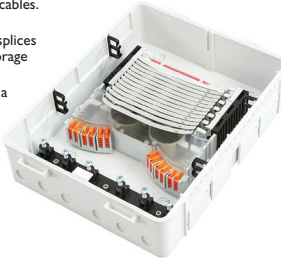| PART NO.	DESCRIPTION
XCPSC01915	SDWB SMALL DISTRIBUTION WALL BOX 220 X 150 X 50MM
XCPSC03104	MDWB MEDIUM DISTRIBUTION WALL BOX 307 X 400 X 131MM
XCPSC01917	LDWB LARGE DISTRIBUTION WALL BOX 320 X 410 X 115MM

PRYSMIAN FLEXIBOX SPLICE ONLY BOX WITH SECURITY LOCK 144F

The splice only Flexibox is a wall box designed for internal/external use with up to 12 splice trays and up to 8 individual inputs for up to 24 cables.

Each splice tray is able to accommodate up to 24 fibre splices and the box has an excess storage or loop storage area.

The Flexibox is available with a lock for security and also has a removable cover for extra access whilst splicing and routing fibres.

Dimensions:
(h) 345mm x
(w) 272mm x
(d) 105mm.

PART NO.	DESCRIPTION
XCPSC03955	PRYSMIAN FLEXIBOX SPLICE ONLY BOX WITH SECURITY LOCK 144F

PRYSMIAN CASALINK CTB EXTERNAL CUSTOMER TERMINATION BOX MK1

The CTB External Customer Termination Box is a wall mounted IP55 sealed product that can be used for splicing the CBT drop cable to the Internal External cable that enters the house. The kit comprises:

- 4 x SE Splice Trays
- 1 x Wall Fixing Kit
- 2 x Drop Sealing Grommet.
- 3 x Cable Ties
- 1 x M20 Entry Cable Gland 4-9mm
- 1 x Aerial Cable Locking Kit
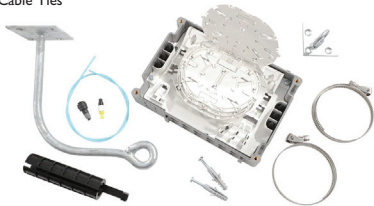
PART NO.	DESCRIPTION
XCPSC03744	PRYSMIAN CASALINK CTB EXTERNAL CUSTOMER TERMINATION BOX MK1

PRYSMIAN COMPACT TERMINATION BOX PRE-TERMINATED SC/APC 2

The Pre-terminated Compact Termination Box MK3 (CTB MK3) kit for internal cables is designed for use in residential and business applications.

The wall box is supplied on a cardboard reel with a length of cable preinstalled in the factory. This process eliminates the need for splicing or fitting field mount connectors in the customer premises.

The cable is simply pulled out of the box, back to the floor/riser box and the CTB MK3 can be secured to the wall or clipped on a DIN rail, without the need to open the unit.

Dimensions: (l) 80mm x (w) 80mm x (d) 28mm.

Available in 2 and 4 fibre options and in a choice of cable length.

PART NO.	DESCRIPTION
XCPSC02866	CTB PRE-TERMINATED SC/APC 2 FIBRE 30M
XCPSC02946	CTB PRE-TERMINATED SC/APC 2 FIBRE 50M
XCPSC02977	CTB PRE-TERMINATED SC/APC 4 FIBRE 30M
XCPSC02978	CTB PRE-TERMINATED SC/APC 4 FIBRE 50M
XCPSC03273	CTB PRE-TERMINATED SC/APC 2 FIBRE 70M
XCPSC03155	CTB PRE-TERMINATED SC/APC 4 FIBRE 70M

PRYSMIAN SMALL EXTERNAL SPLICE BOX ECSB4

The External Customer Splice Box (ECSB4) is a wall mounted product used for the splicing of up to 12 fibres and up to four customer drop cables. The box also has the added feature of a storage area under the hinged splice tray.

The box is supplied with five cable entry seals for the input cable port and four drop ports. The box can accommodate cables from 2 to 7 mm. The box is supplied with an extra knock-out port on the back for through wall applications.

Dimensions: (w) 105mm x (h) 105mm x (d) 33mm.
(allow further 20mm height for grommets).
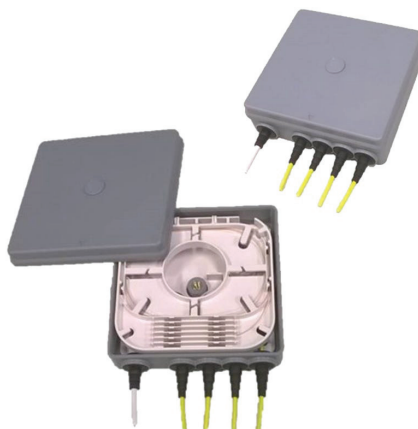
PART NO.	DESCRIPTION
XCPSC02944	PRYSMIAN SMALL EXTERNAL SPLICE BOX ECSB4

PRYSMIAN VERTICASA INTERNAL TRANSITION BOX (ITB) 12/24F

Prysmian Group

The Verticasa In-line Transition Box (ITB), is mainly used for Multi Dwelling Units (MDU's) or office fibre cabling systems. It is a compact splicing box enabling the splicing of up to 4 drop cables to a main in-line cable. The ITB houses a single splicing tray. It is available in two versions, one for 12 and 24 fibre Verticasa cables and one for 48 fibre Verticasa cables.

Features:

- Allows splicing from cables to cables.
- 12/24 fibre version is suitable for one inline cable of up to 12.5mm in diameter. The 48 fibre version is suitable for one inline cable of up to 15mm in diameter.
- Up to 4 drop cables can be spliced to the in-line cable.
- The compact dimensions 100 x 80 x 32mm allow the unit to be installed in the network where access is restricted: riser, duct, etc...
- The cable entries are suitable for 5mm drop tubes or standard cables from 2.5 to 5 mm OD.
- Up to 4 fusion splices or two mechanical splices can be accommodated into the splice tray.
- Cable management within the unit ensures the minimum 20mm bend radius for optical fibre is not exceeded.
- Easily installed and fitted to the wall or inside a riser.
- Input/output cables are secured at the cables entry levels.
- Manufactured from fire resistant UL94-V0 rated material.

Specifications:

- Maximum number of splices: 2 mechanical, 4 fusion
- Number of cable ports: 1 Input Cable - 4 Output Cables
- Maximum cable diameter (mm): 12.5 mm (12/24F), 15.0mm (48F)
- Required space envelope (mm): (L) 100 x (W) 80 x (D) 32
- Operating temperature: -20°C to + 50°C (5 to 95% RH)
- Material Internal Unit:-
- Cover: FR ABS - White RAL 9016
- Base: FR ABS – White RAL 9016
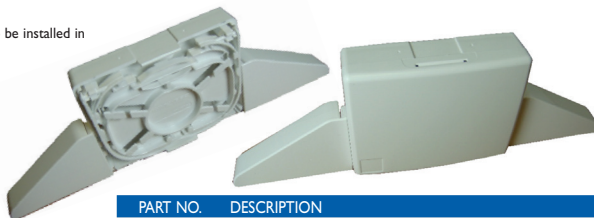
PART NO.	DESCRIPTION
XCPSC00523	PRYSMIAN VERTICASA INTERNAL TRANSITION BOX (ITB) 12/24F

HELLERMANNTYTON FIBRE BROADBAND EXTENSION KIT 30M

HellermannTyton

The Fibre Broadband Extension Kit solution has been designed to provide the property owner flexibility with positioning of the broadband router while simultaneously offering quick and easy installation for the fibre engineer or property developer.

Features:

- 30m length provides Router location flexibility within the property.
- Pre-terminated fibre connector for quick and easy connection
- 600µm fibre allows for cable runs to be almost invisible
- Fibre management kit provides protection for corners and edges
- Low profile outlet fits in with any home or office environment
- Minimal tools required with all fixings included
- 30mm minimum bend radius
- Integrated safety features – restricts removal of connectors/adaptors
- V0 rated
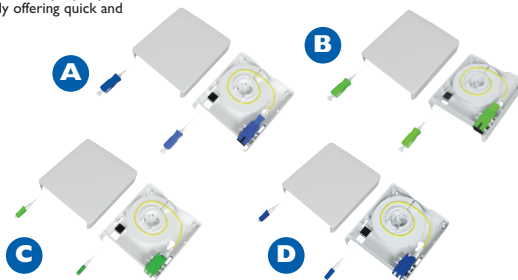
PART NO.	DESCRIPTION
T70-0055	A) HELLERMANTYTON FIBRE BROADBAND EXTENSION KIT 30M WITH SC/PC ADAPTORS
T70-0056	B) HELLERMANTYTON FIBRE BROADBAND EXTENSION KIT 30M WITH SC/APC ADAPTORS
T70-0057	C) HELLERMANTYTON FIBRE BROADBAND EXTENSION KIT 30M WITH LC/APC ADAPTORS
T70-0058	D) HELLERMANTYTON FIBRE BROADBAND EXTENSION KIT 30M WITH LC/PC ADAPTORS

PRYSMIAN INTERNAL / EXTERNAL COMPACT TERMINATION WALL BOX

Prysmian Group

The Internal / External Compact Termination Wall Box is designed for use in residential, small and large businesses premises.

Features:

- Termination Box can be mounted internally or externally and is sealed to IP54.
- Removable cover for easy access and fitted with a lock for enhanced security. The unit can be supplied with a keyed lock or a plastic lock which can be turned with a screwdriver.
- Unit manufactured from UV stabilised fire resistant UL94-V0 material allowing external installation.
- Single hinged splice tray enables access for working. The splice tray is supplied with interchangeable inserts and can accommodate up to 8 fusion splice protectors of heat shrink or crimp type, or 8 mechanical splices.
- Customer drop cables (patch cords) exit from the bottom of the unit and are sealed using a split grommet. Drop cables can also be routed through the wall.
- Up to 4 SC type pigtails and adaptors or 8 LC type pigtails and adaptors can be accommodated. A splice only version is also available.
- All fibres are positively bend managed to a 30mm minimum bend radius.
- External input cable enters the unit from the bottom. Cable up to 11mm in diameter can be accommodated.
- For Blown Fibre applications a gas block connector can be housed within the box.
- A knock out is provided in the base of the unit for applications where the customer drop patch cords are required to be routed through the wall into the premises.

Available in multiple configurations including keyed lock and splice only options:
• SC/APC, SC/UPC up to 4x pigtails and adaptor types
• LC/APC, LC/APC up to 8x pigtails and adaptor types

PRYSMIAN CTP CUSTOMER TERMINATION POINT

The Customer Termination Point has been designed and developed to accommodate the easy connection of a customer.

The CTP can be used for fibre to the premise applications with an integral splicing area as well as positions for up to 2 SC Simplex or LC Duplex adaptors.

It is wall mountable with entry positions for input/output cables on the bottom with two additional through-the-wall holes.

The CTP has provision for excess storage of up to 10m of 3mm cables, as well as up to 25m* of blown fibre units up to 1.25mm and also allows separation of an incoming and outgoing cable for ease of access.

Design and Construction

- Compact design.
- Stores up to 10m of 3mm cable, 25m* of blown fibre
- Supports blown fibre/fixed cable access via UG , external or internal duct
- Single person installation
- IP55 rated
- Moulded and assembled in the UK
- Available in black, grey and brown

Prysmian Group

Available in multiple configurations including:
• Splice only option
• Grey, black or brown colour
• External drop / connectorised through wall
• SCA, SCU, LCA, LCU simplex adaptor types

A) DESICCANT PACK 2A

Used on unventilated Cabinets Cross Connection. 140g pack. Ref: 076062.

B) COMPOUND 21A

Compound 21A is a single component adhesive cement for bonding PVC ducting. Ref: 071821.

C) RESIN PACK 2B

A two component polyurethane compound specifically formulated for use in the construction of vertical air blocks in pressurised telecommunication cables. Ref 074228.

D) RESIN PACK 6C

Resin Pack 6C is a two component polyurethane compound specifically formulated for use as a sealant against the ingress of moisture into the concrete bases of cabinets crossconnection. Ref: 056487.

Features:
- Complies with latest BT specification.
- Supplied as a 3.8 litre kit comprising of 3.29 litres Base and 0.51 litres Hardener.
- Yellow base and blue hardener result in pale green mixed product (visual guide to mix quality).

E) RESIN PACK 7A

Resin Pack 7A is a two-component polyurethane foam specifically formulated for the sealing of telecommunications cable ducting against the ingress of moisture and gas.

Features:
- Fully complies with BT Specification M225.
- Supplied as two half litre cans containing the base and hardener components.
- Kit also contains an injection syringe.

F) RESIN PACK 7B

Resin Pack 7B is a two-component polyurethane foam specifically formulated for the sealing of telecommunications cable ducting against the ingress of moisture and gas.

Features:
- Fully complies with BT Specification M225.
- Supplied as a comprehensive duct sealing kit including flexible foam dams.
- Ideal for use on 54A ducting.

PART NO.	DESCRIPTION
S83-3224	A) DESICCANT PACK 2A
S83-2750	B) COMPOUND 21A
S83-2836	C) RESIN PACK 2B

PART NO.	DESCRIPTION
S83-2837	D) RESIN PACK 6C
S83-2838	E) RESIN PACK 7A
S83-2839	F) RESIN PACK 7B

A) RESIN PACK 9B

Resin Pack 9B (FR) is a two component non-harmful polyurethane compound specifically formulated for use as a self-curing closure sealant system for sealing polyethylene sheathed telecommunications cables into the bases of Sleeves 30A, 31A and 32A and Conduits for both construction and maintenance purposes.

B) RESIN PACK 10B

A very hard/permanent sealant, used for sealing sleeves 30A, 31A and 32B.

C) RESIN PACK 14C

Resin Pack 14C is a two component polyurethane compound specifically formulated for use as a sealant against the ingress of moisture and gas into telecommunications cable ducting.

D) RESIN 14 REMOVAL TOOLKIT

The Resin 14 Removal Toolkit is for the removal of Resin 14 duct seals from within cabinet/DSLAM, and comprises a Manual Impact Drill, 1 x 5.5mm x 210mm, 1 x 8mm x 210mm SDS drill bits and a pair of Extraction Hooks. The extraction hooks are approx. 600mm in length with a T-handle at one end and a small hook at the other. Ref: 088051.

E) COMPOUND 16A

Compound 16A is a single component non-curing mastic specifically formulated for sealing against gas and water in underground conduits carrying telephone cables.

F) COMPOUND DX5

Black compound for sealing around junction boxes, service cable entries and many other similar applications. Forms around irregular surfaces and configurations, highly resistant to cracking, drying and shrinking. Supplied in 5 x 1 pound blocks.

PART NO.	DESCRIPTION
S83-2840	A) RESIN PACK 9B
S83-2748	B) RESIN PACK 10B
S83-2835	C) RESIN PACK 14C

PART NO.	DESCRIPTION
S83-1838	D) THE RESIN 14 REMOVAL TOOLKIT
S83-2749	E) COMPOUND 16A
S83-3226	F) COMPOUND DX5

MILLS DUCT PREPARATION TOOLS, AND DUCT INTEGRITY TEST EQUIPMENT

It is absolutely essential ducts are installed and tested prior to cable installation.

Mills offers an unrivalled range of duct preparation tools and duct integrity test equipment.
For further advice, information and to see the complete range, please visit our
website **millsltd.com** or call our highly trained sales staff on **0208 833 2626**

A10-6184 - Mills Blown Fibre Toolkit No.2 in Ruggedised Waterproof Toolbox

E00-7292 Mills Blown Fibre Microduct Cutter 0-14mm

E00-4673 Mills Blown Fibre Duct Cutter 6mm - 25mm

E00-6641 Mills Blown Fibre Microduct Tube Cutter 0-12mm

S83-6198 Mills Tri-Head Duct Cutter

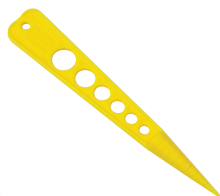**S83-6910 Mills Subduct Cutter 6-35mm**

E00-6670 Mills End Cutting Duct Tool

C00-4452 Mills Microduct Rounding Tool Set of 4

E12-6630 Mills Microduct Connector Plier

E00-6124 Mills Tube Measuring Gauge

J04-6467 Mills Tube Reaming & Deburring Tool

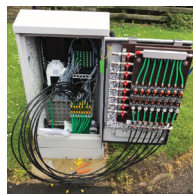**E00-5480 - Mills 6 in 1 Multifunction Blown Fibre Preparation Tool**

C00-3851 Mills Microduct Pressure and Integrity Test Kit

E72-6782 Blown Fibre Bead Crimper

E00-6974 Blown Fibre Duct Cutter 0-22mm

S83-7249 - FTTH Microduct Testing Rig (Pressurise, Calibrate & Catch) 8 Way

FTTH INNOVATIONS F.I.G. FIBRE INSTALLATION GUN - F19-1000

Enter **'Mills the FIG'** into **YouTube** to see video

F.I.G.

The Best In Class Handheld Cordless Air Blown Microfibre Installation Gun, For Fibre To The Home/Premises

Designed with the Drop Fibre installer in mind, the F.I.G. is a lightweight, battery-powered compact blowing gun that features an innovative and simple to use 'no-crush' fibre loading mechanism that prevents cable damage and wastage - in addition to saving the fibre installer valuable set up time.

It is optimised to deploy reeled ballistic microfibre up to 2.0mm diameter in 5mm, 6mm, 7mm and 8mm microducts over distances up to 2000 metres*.

This ergonomic pistol-shaped installation gun has a unique anti-buckle feature to prevent fibre damage whilst blowing. It provides extremely efficient air delivery performance, allowing it to be used with a small air compressor producing ≥80 L./min. (2.8 CFM) at 10 bar.

Its 'cruise control' technology enables hands-free operation.

The LCD screen on the top of the F.I.G. displays speed, distance, pushing force and battery life.

Adjustable push control and interchangeable adaptor plates enable the F.I.G. to be quickly and easily adapted to operate on different microfibre sizes and microducts.

The F.I.G. is available individually with optional extra tripod or as complete kit including F.I.G, Compressor, Tripod and Mills Fibre Blowing Toolkit for both overhead and underground applications.

Features:

- Pushing force and speed are both easily adjustable
- Innovative, simple-to-use, microfibre cable loading mechanism prevents the microfibre from being damaged or crushed during cable loading
- Active anti-buckle and 'no-crush' sensing device prevents damage to the microfibre during install
- LCD screen displays speed, distance, pushing force and battery life
- Microduct outside diameters 5,6, 7, and 8 mm can be blown into using interchangeable gaskets
- Quick-change adaptor plates enable operation on different size microducts in seconds
- Quick-release microfibre reel dispenser post

Includes:

- 2 x Bosch 12v 2.0 Ah Lithium Ion batteries and 1 x 220/240v battery charger
- 1.2 mm adaptor plate set (for 1.1mm fibre cable) including gasket sets for 5mm, 6mm,7mm and 8mm microducts
- Tough, impact-resistant, weatherproof case
- Water separator, replacement drive wheel, o-rings and gaskets
- Threaded anchor point for use with optional tripod mount or optional harness attachment

Specifications:

- Fibre Cable Diameter: Up to 2.0 mm
- Microduct Diameter: 5, 7, 8 mm outside diameter
- Blowing Distance: Up to 2000 metres (*depending on cable type and duct integrity)
- Blowing Speed: Up to 100 m/min (*depending on type of cable and duct integrity)
- Pressure & Airflow: For optimum performance a portable compressor producing ≥80 L/min (2.8 CFM) at 10 bar is recommended
- Hand arm vibration values: Aeq = 0.26ms/m2
- Dimensions: 400 x 350 x 90 mm (with fibre reel holder and battery pack fitted)
- Weight: 1.8 kg (with fibre reel holder and battery pack fitted)

UK FIBRE AWARDS
WINNER

FREMCO® FIBRE BLOWING MACHINES

Mills Limited are the exclusive distributors for the UK and Ireland and offer product from stock, service turn around within 48 hours, technical support, training and different payment options.

REQUEST YOUR TEST DRIVE TODAY!

WHY FREMCO?

No need for tools

Configuration and installation with our machines can be deployed without any usage of tools. This makes every fibre blowing job more effective as the machine can quickly be changed to blow different sizes of fibre/cable and ducts.

Easy configuration

With attention to user-friendly design, our machines have a minimum number of loose parts making it possible to configure the machine in only a few minutes. This makes it possible to reach several fibre blowing jobs per day.

Competitive pricing

The development of our machines are made with the customer in mind.

The machines are great quality, and with no unnecessary, expensive features. Our extended warranty and service agreement up to 60 months creates a great cost-benefit.

NANOFLOW MAX

Fibre blowing machine for FTTH fibres (EFBU) and micro cables up to 4.5 mm

Small but powerful fibre blowing machine, which can blow both blown fibre (EPFU) and micro/nano cables. Tested in accordance to IEC standards.

Design for fibre/cable diameter 0.8 - 4.5 mm being blown into 3 - 12.7 mm microducts.

MICROFLOW LOG

Fibre blowing machine for FTTH fibres (EFBU) and micro cables up to 6.5 mm

The Fremco Microflow LOG is a data driven decision fibre blowing machine. Its online diagnostics display how the machine is operating and how to improve its utilisation.

Design for fibre/cable diameter 0.8-6.5 mm being blown into 4-16 mm ducts.

MICROFLOW TOUCH

Fibre blowing machine for FTTH fibres (EFBU) and micro cables up to 6.5 mm

The Fremco Microflow is the natural choice for effortless FTTH installations.

Design for fibre/cable diameter 0.8-6.5 mm being blown into 4-16 mm ducts.

OVERBLOW BLOCK

Normally used for overblow, the Y-block can assist in adding one cable to an an existing duct, where another cable is already installed.

With Fremco's customized duct holders and adaptors, the Y-block is more flexible as it can be fitted into different sizes of ducts between 14-65 mm. This means you can modify both ends of the Y-block to fit each specific overblow job.

FREMCO® FIBRE BLOWING MACHINES

POWERFLOW RAPID

The Fremco Powerflow is a highly robust machine, engineered specifically for external use and capable of blowing single and multiple fibre cables into multiductings.

Designed to blow or float fibre cables from 5.5-25mm into duct sizes 10-63mm at speeds of up to 80m per minute over distances up to 10km (using water).

MULTIFLOW RAPID

The Fremco Multiflow is a multipurpose heavy duty external blowing machine.

Comfortable in blowing the largest multiple fibres as well as blowing microducts into larger ducts (relining).

Designed to blow or float fibre cables from 5.5-32mm into duct sizes 10-63mm at speeds of up to 80m per minute over distances up to 10km (using water).

MINIFLOW RAPID

Cable blowing machine for access network

The Fremco MiniFlow Rapid offers exceptionally rugged construction and high performance.

Ensures reliability in all extreme weather conditions, it has been designed to blow fibre cables from 3-12mm into tube sizes 7-20mmmm at speeds of up to 100m per minute over distances up to 3.5km.

FREMCO® FIBRE BLOWING MACHINES

EASYFLOW SMART

Based on 25 years of experience in the fibre blowing market, EasyFlow SMART (Patent pending) encompasses all the experience of a fibre blowing expert. The automatic mode protects the cable all the way during the fibre blowing job, minimising costly errors and significantly loss of cable.

DUCT ROD RAPID PUSHER

The new Fremco Duct Rod Pusher, designed in conjunction with Mills Limited and utilising all the reliability of the larger Fremco Fibre Blowing machines, is a quality duct rod pushing machine designed to assist in rodding operations, and capable of effortlessly pushing continuous rod from 9-25mm diameter with typical distances of up to 300 metres.

Mills
EST. 1918
millsltd.com

FREMCO ®

The official Fremco Service Centre for the UK and Ireland

As the official distributor for UK and Ireland, Mills has recently opened its Fremco Service Centre. The Service Centre is designed in association with Fremco, and is manned by three Mills Fremco-trained staff. The Fremco Service Centre is able to offer 3 or 5 year service agreements for the full range of Fremco machines, including the new Duct Rod Rapid Pusher.

48 Hour turnaround

A 48 hour turnaround on servicing is the norm with loan machines available as necessary to avoid disruption to the work flow.

All servicing carries a 12 month warranty.

Service Agreement Benefits

• Save money compared to actual price of a service
• High Quality Servicing at an authorised Fremco Service Centre
• Fixed monthly, annual or one-off payment giving total overview of expenses
• Keep your extended warranty when your machine is serviced at an authorised Fremco Service Centre

Purchasing Options

Here at Mills we've extended our purchasing options so that for expensive kit valued at over £2,000 such as the Fremco range or complete tool kits, we can offer finance and hire facilities through our agreements with Sunbelt Rentals and Johnson Reed.

Fremco machines represent a considerable investment for many companies so being able to hire on a short-term or long-term contract makes a lot of sense financially.

Hiring

SUNBELT RENTALS

Hire Fibre Blowing and Network Test Equipment from Sunbelt Rentals

When you hire from Sunbelt, our specialist knowledge ensures you'll get the most appropriate equipment, delivered on time complete with instructions and accessories.

You also have access to first class technical support should there be any problems.

www.sunbeltrentals.co.uk

Leasing

JOHNSON REED
Business Finance

Johnson Reed can arrange a flexible lease-to-purchase agreement for any purchases from £2,000. You can spread payments over a 2-to-5 year term with a hassle-free application completed over the phone. Leasing is fast, tax efficient and available to ALL businesses new and well established. Use their handy online calculator to get a quick estimate:

www.johnsonreed.co.uk/calculator

Just contact our sales team on: **020 8833 2626**

MILLS CABLE LUBRICANT

The Mills range of cable lubricants has been designed for the telecoms industry and most specifically for blowing or pulling fibre optic cables. These lubricants are available for all sizes of general ducting and microducts and provide maximum friction reduction, reducing the risk of cable damage.

A) Mills Fibre Blowing Subduct Lubricant 0.95 Litre

A specialist cable blowing lubricant for general fibre blowing applications as well as subduct relining.

B) Mills Fibre Blowing Microduct Lubricant 1 Litre

A specialist cable blowing lubricant more concentrated than the Mills Fibre Blowing Subduct lubricant (S27-1960, S27-1961) and designed for use with microducts.

C) Mills Optic Cable Pulling Lubricant 20 Litre

Mills Optic Cable Pulling lubricant is a water-based thin semi gel cable installation lube for fibre cable pulling operations. It is ideal for pulling both fibre optic cables and sub ducts, eliminating up to 80% friction.

D) Mills Fibre Blowing Subduct Lubricant 3.8 Litre

A specialist cable blowing lubricant for general fibre blowing applications as well as subduct relining massively reducing frictional drag during the blowing of fibre optical cable into the duct whilst increases the length of cable that can be blown.

E) Cable Lubricant 2A with Micro Beads 20 Litres

Approved to BT Specification MAT 138C Emulsion based with silicone this product is specially formulated with added micro beads to reduce pulling friction by up to 70%.

| PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
S27-1960	A) MILLS FIBRE BLOWING SUBDUCT LUBRICANT 0.95 LITRE	S27-1961	D) MILLS FIBRE BLOWING SUBDUCT LUBRICANT 3.8 LITRE
S27-1963	B) MILLS FIBRE BLOWING MICRODUCT LUBRICANT 1 LITRE	S27-2665	E) CABLE LUBRICANT 2A WITH MICRO BEADS 20 LITRES
S27-1959	C) MILLS OPTIC CABLE PULLING LUBRICANT 20 LITRE		

CABLE BLOWING COMPRESSORS

Compressed air is a vital part of the cable blowing and jetting process and choosing the right compressor is essential to ensuring fibre optic cables can be installed quickly and efficiently without damage. Mills offers a comprehensive range of compressors, after-coolers and air dryers to suit your requirement. Our experienced fibre blowing team are able to advise on this important element of the fibre blowing process.

A) Kaeser M17 Portable Compressor

Versatile, reliable and easy to transport. The 15-bar version is the ideal choice for trenchless laying of fibre cables or for leakage tests.

An external compressed air aftercooler can also be optionally connected to ensure a dependable supply of cool, condensate-free air at all times. Flow Rate: 1.0 m3/min or 35cfm.Operating Pressure: 15 bar or 215 PSI.

B) Rotair MDVN82KH Portable Compressor

Compact dimensions for easy handling and optimum dimensions / delivered power ratio. Complete with integral after cooler.

Operating pressure: 7 bar 102 psi : 10 bar 145 psi : 14 bar 203 psi.

Free air delivery: 8000 l/min 282 cfm : 6400 l/min 226 cfm : 5000 l/min 177cfm.
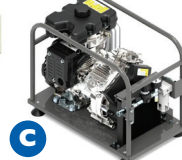
C) Lastmile Blown Fibre Air Compressor Petrol

Compact and lightweight compressor has been specifically designed to produce clean oil-free dry air for fibre blowing applications and is the ideal partner for the Fremco Nanoflow, and Microflow. Produces 9.5 CFM (270 l/min) of clean air at maximum pressure of 10 Bar (145 PSI).

D) Last Mile VRK Armadillo Fibre Blowing Compressor

Portable compressor designed for cable blowing. With safety and efficiency in mind, it is designed to meet the requirements for cable blowing installations and has a built in aftercooler. Max operating pressure 15bar / 218psi. Working Pressure 13Bar / 188psi. Free air delivery 1000L/min / 35cfm. Minimum working pressure 5.5bar / 80psi.

E) MDU Cordless Compressor with 2 x 40v 4Ah Batteries, Charger & Hose

Cordless Compressor supplied with 2 x 40v 4Ah Batteries, Charger & Hose. Suitable for short blowing runs under 100 metres. Output: 240w.

PART NO.	DESCRIPTION
101-30011	A) KAESER M17 PORTABLE COMPRESSOR
S00-1802	B) ROTAIR MDVN82KH PORTABLE COMPRESSOR
S00-3790	C) LASTMILE BLOWN FIBRE AIR COMPRESSOR PETROL
S00-3791	D) LAST MILE VRK ARMADILLO FIBRE BLOWING COMPRESSOR
P09-5094	E) MDU CORDLESS COMPRESSOR WITH 2 X 40V 4AH BATTERIES, CHARGER & HOSE

External Overhead

External Overhead

Mills EST. 1919

STEP POLE NO.1

Pole step for use on wooden poles only.

Ref: 015550.

PART NO.	DESCRIPTION
S83-2996	STEP POLE NO.1

RING POLEHEAD STAND-OFF 1A

A bolt on galvanised steel pole step with a welded 100mm diameter ring.

Used to attach a maximum of five dropwires on joint user poles when a Stand-off 1A dropwire needs to be terminated.

The Stand-off enables DNO staff to safely climb past BT/Openreach plant.

Ref: 016288.

PART NO.	DESCRIPTION
S83-2842	RING POLEHEAD STAND-OFF 1A

A) SCREW COACH 3" (PK 200)

A

Galvanised 3 x 3/8in coach screw for attaching pole furniture to wooden poles. Supplied in a box of 200. Formerly S83-0850. Ref: 014700.

B) LAG SCREW 100MM (EACH)

Lag bolt / coach screw for fixing pole line hardware on wooden posts. Made of hot dip galvanized steel.

B
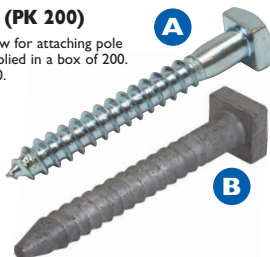
PART NO.	DESCRIPTION
S83-0654	A) SCREW COACH 3" (PK 200)
S83-5089	B) LAG SCREW 100MM (EACH)

RING POLEHEAD DROPWIRE

Galvanised 240mm steel ring with 16mm diameter bolt for distribution of cables from the top poles. For use with Cable Dropwire, acts as a support for Clamps Dropwire.

Ref: 021240.

PART NO.	DESCRIPTION
S83-2841	RING POLEHEAD

BRACE COACH SCREW

Hand held brace, used to attach and remove coach screws from poles.

Ref: 112089.

PART NO.	DESCRIPTION
S83-0765	BRACE COACH SCREW

HALO RING

A replacement larger pole ring to be used mainly on congested poles as an alternative to the standard S83-2841 pole ring.

This larger type 15 crown ring is used for network rearrangements and the addition of new fibre enclosures when there are capacity issues with the upper pole envelope.

Diameter: 501mm.

PART NO.	DESCRIPTION
S83-1707	HALO RING

SOCKET AND ADAPTORS COACH SCREW

An impact grade 5/8 AF Socket with ½" drive for tightening and loosening coach screws (S83-0642) when used with a power tool and in conjunction with either the ¼" (G70-1769) or SDS (G70-1770) adaptors.

A) 5/8 Inch Square Socket for Coach Screws 1/2 Inch Drive
5/8" square socket used to attach and remove coach screws from poles.

B) 1/4 Inch Hex to 1/2 Inch Square Drive Adaptor
Fits 1/2-inch square drive sockets and is suitable for drills with standard 3 jaw chucks.

C) SDS Plus to 1/2 Inch Square Drive Socket Adaptor
Fits 1/2-inch square drive sockets and is suitable for rotary hammers with SDS plus shank systems.

A **B** **C**

PART NO.	DESCRIPTION
G70-1768	A) 5/8 INCH SQUARE SOCKET FOR COACH SCREWS 1/2 INCH DRIVE
G70-1769	B) 1/4 INCH HEX TO 1/2 INCH SQUARE DRIVE ADAPTOR
G70-1770	C) SDS PLUS TO 1/2 INCH SQUARE DRIVE SOCKET ADAPTOR

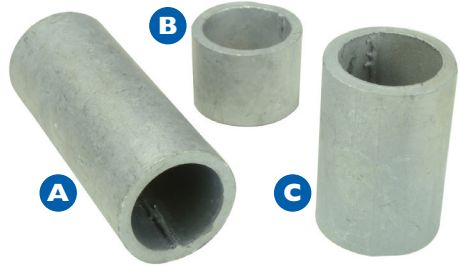## WASHERS GALVANISED 16,17,18

A) Washer Galvanised 16
Galvanised steel tubular washer 65mm long and 27mm in diameter for use with Bolts Hex Head to secure Universal Pole Brackets or UPBs to poles where the bolt is too long. Box of 50. Ref: 016161.

B) Washer Galvanised 17
Galvanised steel tubular washer for use with Bolts Hex Head to secure UPBs to poles where the bolt is too long. Dimensions: 20mm long and 27mm diameter. Box of 200. Ref: 016162.

C) Washer Galvanised 18
Galvanised steel tubular washer 40mm long and 27mm diameter for use with Bolts Hex Head to secure UPB's to poles where the bolt is too long. Box of 200. Ref: 016163.

PART NO.	DESCRIPTION
S83-1766	A) WASHER GALVANISED 16 - BOX OF 50
S83-2865	B) WASHER GALVANISED 17 - BOX OF 200
S83-2866	C) WASHER GALVANISED 18 - BOX OF 200

WASHER GALVANISED 4

50mm diameter x 3mm thick with an 18mm hole and used on Bolt Arm.

Supplied in a box of 100.

Ref: 016152.

PART NO.	DESCRIPTION
S83-2868	WASHER GALVANISED 4 (BOX OF 100)

WASHER GALVANISED 19

Galvanised steel flat washer 20mm in diameter with a 7mm hole in the centre. 1.6mm in thickness

Used with Nail Bonding and Strip Aluminium to secure cables to wooden poles.

Supplied in a 3kg box containing approximately 770 washers.
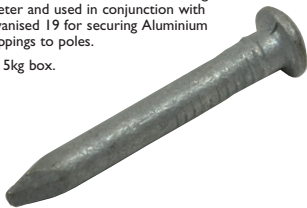
Ref: 073202.

PART NO.	DESCRIPTION
S83-3163	WASHER GALVANISED 19 (3KG)

NAIL BONDING

Galvanised steel round headed nail 45mm long x 5mm diameter and used in conjunction with Washer Galvanised 19 for securing Aluminium Strip and Cappings to poles.

Supplied in a 5kg box.

Ref: 072034.

PART NO.	DESCRIPTION
S83-2672	NAIL BONDING

PLUGS CREOSOTED

A packet of 100 creosoted plugs 10mm x 50mm (3/8" x 2"). These products are used to plug old fixing holes or test holes created following testing using a Mattson borer. To prevent decay to the pole the specification LN435 states "All holes from cores taken for testing must be plugged with creosote treated plugs, which are an interference fit into any holes made."
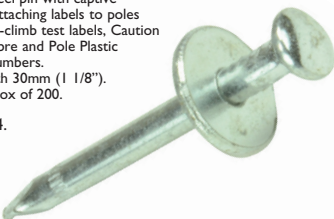
Ref: 016266.

PART NO.	DESCRIPTION
S83-0944	PLUGS CREOSOTED

PIN STEEL NO.2 PK200

Hardened steel pin with captive washer for attaching labels to poles including pre-climb test labels, Caution Overhead Fibre and Pole Plastic Letters & Numbers.
Overall length 30mm (1 1/8").
Supplied in box of 200.

Ref: 070864.

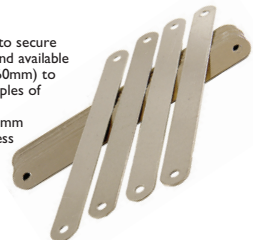| PART NO.	DESCRIPTION
S83-1746	PIN STEEL NO.2 PK200

STRIPS ALUMINIUM

16mm wide aluminium strips used to secure cables running vertically on poles and available in 3 lengths (80mm, 120mm and 160mm) to accommodate most sizes and multiples of cables. Regulations specify cables must be fixed at a minimum of 450mm intervals and must not impede access to the climbing steps.

Supplied in pack of 25.

S83-0902 Ref: 015708.
S83-0856 Ref: 076077.
S83-0903 Ref: 076078.

PART NO.	DESCRIPTION
S83-0903	80MM STRIP ALUMINIUM (PK25)
S83-0902	120MM STRIP ALUMINIUM (PK25)
S83-0856	160MM STRIP ALUMINIUM (PK25)

A) UNIVERSAL POLE BRACKET UPB

The UPB bracket is manufactured from aluminium alloy with correspondingly high mechanical strength. Its unique patented design has been developed as a universal fitting covering all installation situations on wooden, metal or concrete poles.

Ref: 016988.
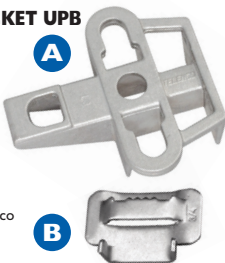
B) MOUNTING BUCKLE

Stainless steel buckle for securing Telenco banding. Supplied in a pack of 100.

Ref: 013603.

PART NO.	DESCRIPTION
S83-1540	A) UNIVERSAL POLE BRACKET UPB
S83-3246	B) MOUNTING BUCKLE (PK100)

BANDING STAINLESS STEEL 20MM X 50M

Stainless steel strip banding 20mm x 0.7mm x 50m contained in a plastic "Easy carry container".

For attaching S83-1540 Universal Pole Bracket or UPB, S00-7197 External Fibre Locking Mechanism or ELM and S00-1601 Malico L Coiling Bracket to BT Hollow & Joint User wood & steel poles.

Ref: 013610.

PART NO.	DESCRIPTION
S83-1542	BANDING STAINLESS STEEL 20MM X 50M
S83-1543	PROTECTION SLEEVE FOR BANDING SS 20MM X 10M

TELENCO BANDING TOOL

Stainless steel banding tool for the attachment of the Telenco Universal Pole Bracket (UPB) to wooden and hollow poles. Ideal for use on joint user poles where permission cannot be granted to drill a bolt hole through the pole to attach cable fixings.

Ref: 013608.
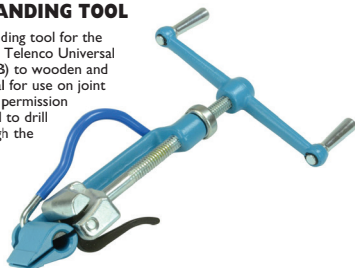
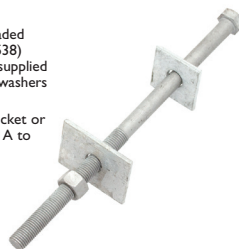| PART NO.	DESCRIPTION
S83-3242	TELENCO BANDING TOOL

BOLT HEX HEAD

A galvanised steel hexagonal headed bolt, available in 300mm (S83-1538) and 350mm (S83-1539) lengths supplied fitted with two galvanised steel washers and one nut.

For attaching Universal Pole Bracket or UPB, Hook Aerial Cable 1 and 1A to wooden poles.

S83-1538 Ref: 016977.
S83-1539 Ref: 016978.

PART NO.	DESCRIPTION
S83-1538	BOLT HEX HEAD 16MM X 300MM
S83-1539	BOLT HEX HEAD 16MM X 350MM

RATCHET POLE BANDING TOOL

Ratchet stainless steel banding tool for the attachment of the Telenco Universal Pole Bracket (UPB) to wooden and hollow poles.

Ideal for use on joint user poles where permission cannot be granted to drill a bolt hole through the pole to attach cable fixings.

PART NO.	DESCRIPTION
S83-1699	RATCHET POLE BANDING TOOL

HOOK AERIAL CABLE

Hook Aerial Cable 1 or J Hook is a "D" section steel bar coated with nylon and formed into a "J" shape. Used to support an Aerial Cable on Joint User Poles.

Ref: 016240.

PART NO.	DESCRIPTION
S83-3245	HOOK AERIAL CABLE

POLE BAND MOUNTING TOOL KIT

Contains: Screw banding tool, aviation tin snips, riveting hammer, cut resistant safety gloves and storage case.

PART NO.	DESCRIPTION
S83-1667	POLE BAND MOUNTING TOOL KIT

OMEGA POLE BRACKET 180MM

Pole bracket used for securing pole hardware on wooden poles used for low voltage networks. Installation with S83-1542 20mm pole band or with a coach / lag screw. Material: Galvanized steel. Width: 180mm.
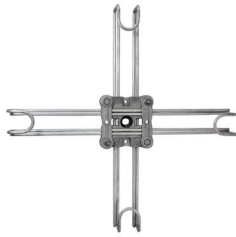
PART NO.	DESCRIPTION
S83-5088	OMEGA POLE BRACKET 180MM

MALICOIL L FIBRE COILING BRACKET

Manages the coiling and bend radius of aerial optical fibre.

Available in 3 sizes.

A) Malicoil S- Coiling Diameter: Min 270mm / Max 400mm

B) Malicoil M- Coiling Diameter: Min 400mm / Max 600mm

C) Malicoil L- Coiling Diameter: Min 550mm / Max 960mm

PART NO.	DESCRIPTION
S00-1601	A) MALICOIL S - COILING DIA: MIN 270MM / MAX 400MM
S00-1970	B) MALICOIL M - COILING DIA: MIN 400MM / MAX 600MM
S00- 1969	C) MALICOIL L - COILING DIA: MIN 550MM / MAX 960MM

LOV300E CABLE STORAGE BRACKET

Designed for cable storage and protection, this pole hardware accessory enables the management of fibre optic cable overlengths on poles, in manholes or on walls/facades.

The LOV300e storage bracket enables the avoidance of the piston effect on aerial cables with ADSS structure.

The bracket allows convenient splicing at height or at ground level.

Compact and discreet, the LOV300e storage bracket can be attached at the rear of a splice closure in order to curtail the visual impact of the cable coiling.

PART NO.	DESCRIPTION
S83-0103	LOV300E CABLE STORAGE BRACKET

BRACKET 22

A dropwire fixing consisting of a galvanised steel triangular bracket with three fixing holes and a welded loop. Designed to attach a dropwire clamp at end users premises or on a multi pole route where no pole ring exists.

Suitable for use with 36f ULWC, BIRLA, CDC, HFCL and Dropwire 10A.

Ref: 011114.

PART NO.	DESCRIPTION
S83-2723	BRACKET 22

BRACKET 32

A dropwire fixing consisting of a galvanised steel "J" shaped Bracket with a welded loop and a plate with four holes at the other end. Designed to attach a dropwire clamp to timber or brickwork at end users' premises where additional height clearance is required e.g. a Bungalow.

Ref: 016264.

PART NO.	DESCRIPTION
S83-2724	BRACKET 32

HOOK AERIAL CABLE 1A

Used on wooden poles to support suspension and aerial cable relief clamps.
Ref: 016990.

PART NO.	DESCRIPTION
S83-1681	HOOK AERIAL CABLE 1A

WALL PLATE 5A WITH THIMBLE

Galvanised steel wall plate for attachment of lightweight cables and wires.

Dimensions: 150mm x 100mm
Ref: 018388.

PART NO.	DESCRIPTION
S83-9215	WALL PLATE 5A WITH THIMBLE 150MM X 100MM

BRACKET 44

A dropwire fixing consisting of a galvanised steel "L" shaped Bracket with a welded loop at one end and a plate with two holes at the other end.

Designed to attach a dropwire clamp to brickwork at end users premises where further additional height clearances are required.

On brickwork (without rendering or cladding) this Bracket is designed to be secured with 2 x Bolt Expanding 2A.

Maximum span length is 68 metres.

Dimensions: 420 x 210mm
(Wall Plate: 150 x 100mm).
Ref: 009561.

PART NO.	DESCRIPTION
S83-1060	BRACKET 44

BRACKET 51

On brickwork (without rendering or cladding) this Bracket is designed to be secured with 2 x Bolt Expanding 2A

The Bracket 51 is attached to the wall by the same drilling method as the Bracket 44 but, as it stands out further from the wall, is considerably taller.

Dimensions: 600 x 350mm
(Wall Plate: 150 x 100mm).
Maximum span length is 68 metres.
Ref: 060795.

PART NO.	DESCRIPTION
S83-1064	BRACKET 51

A) CLAMP AERIAL CABLE 2

Used to support Cable Aerial Self Supporting Combined 10/0.5, 20/0.5, 5/0.6 and 10/0.6 at through pole positions on hollow poles. Ref: 073194.
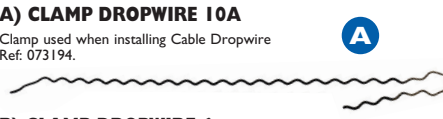
B) CLAMP AERIAL CABLE 4

Used to support Cable Aerial Self Supporting Combined 50/0.5, 10/0.63, 28/0.63 and 14/0.9 at through pole positions on hollow poles. Ref: 073196.
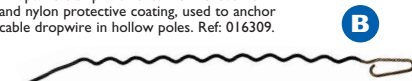
PART NO.	DESCRIPTION
S83-2744	A) CLAMP AERIAL CABLE 2
S83-2745	B) CLAMP AERIAL CABLE 4

A) CLAMP DROPWIRE 10A

Clamp used when installing Cable Dropwire Ref: 073194.

B) CLAMP DROPWIRE 6

Dropwire clamp with extended relieved end and nylon protective coating, used to anchor cable dropwire in hollow poles. Ref: 016309.
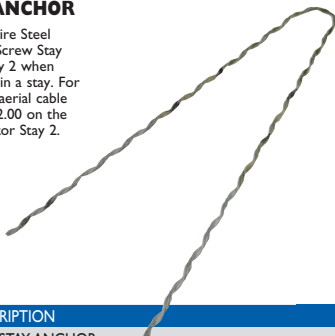
PART NO.	DESCRIPTION
S83-2746	A) CLAMP DROPWIRE 10A
S83-2747	B) CLAMP DROPWIRE 6

GRIP STAY ANCHOR

For terminating Wire Steel 7/2.00 to Anchor Screw Stay or to Insulator Stay 2 when these are inserted in a stay. For terminating lashes aerial cable using wire steel 7/2.00 on the span side of Insulator Stay 2.

Ref: 016229.

PART NO.	DESCRIPTION
S83-2783	GRIP STAY ANCHOR

A) GRIP INSULATOR POLE

Multi stranded "U" shaped clamp formed by laying 6 galvanised high tensile steel wires, each 2.00mm diameter in a spiral wrap formation, with an internal coating of aluminium oxide. Supplied with 2 "O" clips 9-11mm diameter and used for attaching an Insulator Stay 2 to the suspension wire of the cable. Approximate length 430mm.

Ref: 016234.

B) GRIP STAY POLE

For terminating Wire Steel 7/2.00 at the pole heads end. For terminating lashed Aerial Cable where wire steel 7/2.00 is used. Ref: 016228.

PART NO.	DESCRIPTION
S83-2782	A) GRIP INSULATOR POLE
S83-2784	B) GRIP STAY POLE

GRIP WIRE SUSPENSION

A) Grip Wire Suspension No.1

Used to terminate Cable PET or PETAL Aerial incorporating single strand suspension wire, except at power crossing. Ref: 016444.

B) Grip Wire Suspension No.2

For terminating all sizes of Cable PET and Aerial Cable except those that incorporate Single Strand Suspension Wire. Ref: 016227.

C) Grip Wire Suspension No.3

For terminating Cable PET and Aerial Cable that incorporate single strand suspension wire on the span side of Insulator Stay 2 at power crossing. Ref: 016231.

D) Grip Wire Suspension No.4

For terminating all sizes of Cable PET and Aerial Cable except those with Single Suspension Wire, on the span side of Insulator Stay 2 at power crossings. Ref: 016232.

PART NO.	DESCRIPTION
S83-2785	A) GRIP WIRE SUSPENSION NO.1 (SINGLE)
S83-2786	B) GRIP WIRE SUSPENSION NO.2 (SINGLE)
S83-2787	C) GRIP WIRE SUSPENSION NO.3 (SINGLE)
S83-2788	D) GRIP WIRE SUSPENSION NO.4 (SINGLE)

CABLE ABRASION PROTECTOR

Reduces abrasion of aerial cables when in contact with poles and hardware fittings, anchor clamp bail wire and tree branches.
S83-1670 Ref: 048987.
S83-1672 Ref: 048988.
S83-1673 Ref: 048989.

PART NO.	DESCRIPTION
S83-1670	CABLE ABRASION PROTECTOR NO.1 - 6MM X 1M (PK 20)
S83-1671	CABLE ABRASION PROTECTOR NO.2 - 16MM X 1M (PK 10)
S83-1672	CABLE ABRASION PROTECTOR NO.3 - 25MM X 1M (PK 10)
S83-1673	CABLE ABRASION PROTECTOR NO.4 - 33MM X 1M (PK 10)
S83-1674	CABLE ABRASION PROTECTOR NO.5 - 40MM X 1M (PK 10)

HYPOCLAMP SLIPPERY FISH AERIAL CABLE CLAMP / GRIP

The new Hypoclamp F is approved for PIA installations and has been designed for quick tool-less installation of Slippery Fish SST COF250 Self Rodding Dropwire Cable for spans up to 70 metres.
Ref: 095296.

PART NO.	DESCRIPTION
S83-0672	HYPOCLAMP SLIPPERY FISH AERIAL CABLE CLAMP / GRIP

HYPOCUT F DROP CLAMP FOR EZ AXS & ROC FLAT CABLES PK10

The PIA approved Hypocut F drop clamp has been specifically developed to meet the requirements of FTTP network roll-outs in the UK. This cable clamp enables the anchoring of flat aerial drop cables up to 70 metres.
Supplied in a pack of 10.

PART NO.	DESCRIPTION
S83-4436	HYPOCUT F DROP CLAMP FOR EZ AXS & ROC FLAT CABLES PK10

EXTERNAL FIBRE LOCKING MECHANISM FOR ULTRA-LIGHTWEIGHT OVERHEAD CABLES

The Fibre Locking Mechanism also known as an ELM, is a locking mechanism essential for 'loose' jacketed element or elements in an overhead cable.

The ELM provides an effective solution that isolates the termination of the fibres, either spliced or connectorised, in the fibre enclosure from the 'in span' environmental loading (ice and winding).
Ref: 066611.

PART NO.	DESCRIPTION
S00-7197	EXTERNAL FIBRE LOCKING MECHANISM

A) ADSS FIBRE DROPWIRE CLAMP PK10

Galvanised spiral aerial clamps or Helical Dead Ends approved for PIA applications and designed for quick and tool-less installation of ADSS Cables with a micromodule structure. Supplied in packs of 10.

B) FIBRE CABLE CLAMP / GRIP 36 ULW AND 48 ULW PURPLE FLASH PK10

A galvanised spiral aerial grip or Helical Dead End (6.80-7.20mm) approved for PIA application and designed for quick tool-less installation of 36f Ultra-LightWeight (ULW) and BIRLA 7mm Overhead Dropwire Cable. Overall length of 560mm (Purple Colour Tag).

Supplied in packs of 10. Ref: 85656.

C) FIBRE CABLE CLAMP / GRIP 36 ULW AND 48 ULW YELLOW FLASH PK10

A galvanised spiral aerial grip or Helical Dead End (6.80-7.20mm) approved for PIA application and designed for quick tool-less installation of overhead hybrid dropwire cable. Overall length of 560mm (Yellow Colour Tag).

Supplied in packs of 10. Ref: 104340.

D) FIBRE CABLE CLAMP / GRIP OH FIBRE DROPWIRE PK10

A galvanised spiral aerial grip or Helical Dead End (5.80-6.20mm) approved for PIA application and designed for quick tool-less installation of fibre dropwire cable. For spans up to 70 metres.

Supplied in packs of 10. Ref: 090060.

E) FIBRE OPTIC DEAD END CLAMP 6MM (3 WIRE) PK10

Pack of 10 Fibre Optic Dead End Clamps 6mm (3 wire). Ref: 106778.

Check below for colour options

PART NO.	DESCRIPTION
S83-0250	A) ADSS FIBRE DROPWIRE CLAMP ORANGE 3.0MM – 3.9MM (PK10)
S83-3250	A) ADSS FIBRE DROPWIRE CLAMP BLUE 4.3MM – 5MM (PK10)
S83-3251	A) ADSS FIBRE DROPWIRE CLAMP WHITE 5.4MM – 6.2MM (PK10)
S83-0673	B) FIBRE CABLE CLAMP / GRIP 36 ULW & 48 ULW PURPLE FLASH (PK10)
S83-1804	C) FIBRE CABLE CLAMP / GRIP OVERHEAD HYBRID DROPWIRE YELLOW FLASH (PK10)
S83-1807	D) FIBRE CABLE CLAMP / GRIP OH FIBRE DROPWIRE (PK10)
S83-4001	E) FIBRE OPTIC DEAD END CLAMP 6MM (3 WIRE) PK10

ABOVE GROUND TELECOMS CLOSURE 2/4A

The 2/4A Above Ground Closure is widely used on buildings where communication wires and drop wires have to be joined externally.
Ref: 026014.
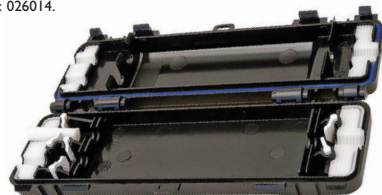
PART NO.	DESCRIPTION
S83-1683	ABOVE GROUND TELECOMS CLOSURE 2/4A

ANCHORING CLAMPS FOR FRP/GRP FIGURE 8 CABLE

These anchoring clamps are designed for FRP/GRP Figure 8 Cable.

Designed with an opening conical body, two plastic wedges and a flexible 500mm bail, these anchor clamps offer a tensile strength of 750daN.

This thermoplastic body model, engineered to be mounted on distribution networks with spans up to 90m, enables the dead-ending of FTTH figure-8 drops. Available to suit 6-8mm and 8-10mm figure 8 cable.
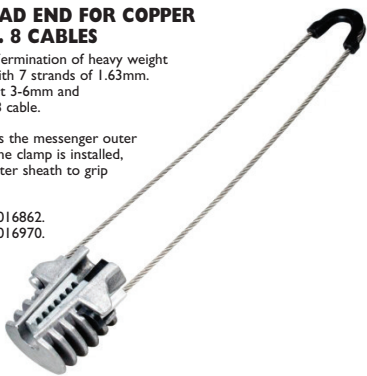
PART NO.	DESCRIPTION
S83-1678	A) 8 TO 10MM ANCHORING CLAMP
S83-1680	B) 6 TO 8MM ANCHORING CLAMP

CABLE DEAD END FOR COPPER PAIRS FIG. 8 CABLES

Used for Full Termination of heavy weight Aerial Cable with 7 strands of 1.63mm. Available to suit 3-6mm and 5-8mm figure 8 cable.

The jaw pierces the messenger outer sheath, when the clamp is installed, piercing the outer sheath to grip the steel rope.

S83-3244 Ref: 016862.
S83-3243 Ref: 016970.

PART NO.	DESCRIPTION
S83-3244	CABLE LIGHTWEIGHT 3-6MM AC 7-200
S83-3243	CABLE HEAVYWEIGHT 5-8MM AC 10-320

FTTP BFD/CU HYBRID COME-ALONG CLAMP FOR COPPER AND FIBRE DROP CABLE

Overhead Cable Installation Tool (Come Along Clamp) but now with grip inserts for legacy 6 to 8mm cables as well as for the new flat ROC cable from Corning and EzAxS from CommScope for FTTP deployment.

Supplied with heavy duty 2 metre chain and sturdy carabiners for securing and holding tension during installation.
Ref 069586.

PART NO.	DESCRIPTION
S83-3583	COME-ALONG CLAMP FOR DROP CABLE

ANCHORING CLAMPS FOR DEAD-ENDING OF FTTH AERIAL ROUND CABLES

These anchoring clamps are designed for the dead-ending of FTTH aerial round cables from 5mm up to 8mm, with reinforced outer sheath. They are intended for installation on poles or facades, with maximum spans of 70m. Designed with a new shape for their wedges, these clamps enable an optimal cable grip. Thus, in case of overload, the pressure is distributed uniformly in order to preserve the optical cable performances. Available to suit 5-6mm and 6-8mm round cable.

PART NO.	DESCRIPTION
S83-1792	A) ANCHORING CLAMP 5-6MM ROUND CABLES
S83-1793	B) ANCHORING CLAMP 6-8MM ROUND CABLES
S83-1679	C) ANCHORING CLAMP 9-12MM ROUND CABLES

GRIP PULLING AERIAL CABLE

Grip Pulling Aerial Cable - 'come-along clamp' - available in 2 sizes:

A) S83-0940: Used for the installation of aerial cables, sometimes referred to as a come-along clamp. Size 2A is 4-12mm. Ref: 127256.

B) S83-0993: Used for the installation of aerial cables, sometimes referred to as a come-along clamp. Size 3A is 3-9mm.

PART NO.	DESCRIPTION
S83-0940	A) GRIP PULLING AERIAL CABLE 2A (4-12MM)
S83-0993	B) GRIP PULLING AERIAL CABLE 3A (3-9MM)

ANCHORING CLAMP AC68 140

A cost-effective solution for the dead-ending on poles of FTTH figure-8 cables with steel or dielectric messenger Ø 3 to 9mm deployed on distribution networks (spans up to 90m).

The AC68 140 clamp offers a tensile strength of 200daN.

Designed with a short opening and conical body, a jaw with two plastic wedges and a flexible bail.

- Simple and fast installation, requiring no tools
- Cable clamping on 60mm length
- Efficient cable grip due to the conical wedges design
- Installation with zero bend radius constraint
- Mounting on all pole line hardware with closed eye and min. Ø 15mm

For figure-8 drops Ø 6-9mm.

Bail: 140mm.
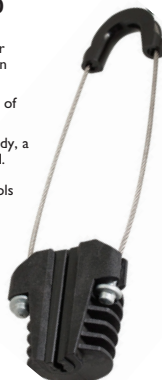
PART NO.	DESCRIPTION
S83-0100	ANCHORING CLAMP AC68 140

BARREL CLAMPS

A) Automatic stay wire wedge clamp for operating stay wire installations. For diameters: 6.1 - 6.6mm.

B) For the simple and fast dead-ending of figure-8 cables with steel messengers, comprising a conical body, a pair of wedges, a lanyard and a stainless steel bail.

S83-1880 Ref: 016980.
S83-1881 Ref: 016973.
S83-1882 Ref: 016974.

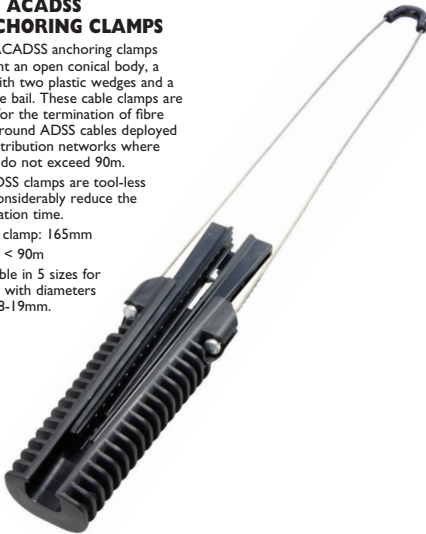| PART NO.	DESCRIPTION
S83-1880	A) BARREL CLAMP TERMINATING STAY WIRE SWC63
S83-1881	B) BARREL CLAMP SINGLE STRAND BARE WIRE 2.5MM BWC25
S83-1882	B) BARREL CLAMP MULTI STRAND BARE WIRE 4.7MM BWC47

THE ACADSS ANCHORING CLAMPS

The ACADSS anchoring clamps present an open conical body, a jaw with two plastic wedges and a flexible bail. These cable clamps are used for the termination of fibre optic round ADSS cables deployed on distribution networks where spans do not exceed 90m.

ACADSS clamps are tool-less and considerably reduce the installation time.

Cable clamp: 165mm

Span : < 90m

Available in 5 sizes for cables with diameters from 8-19mm.

PART NO.	DESCRIPTION
S83-3254	ACADSS8C FOR ROUND FIBRE OPTIC CABLE 8-10MM
S83-3255	ACADSS12 FOR ROUND FIBRE OPTIC CABLE 11-14MM
S83-3256	ACADSS14 FOR ROUND FIBRE OPTIC CABLE 13-16MM
S83-3257	ACADSS16 FOR ROUND FIBRE OPTIC CABLE 15-17MM
S83-3258	ACADSS18 FOR ROUND FIBRE OPTIC CABLE 17-19MM

DROP CABLE ANCHORING CLAMP 2.5-5MM

The drop clamp 5/35 FTTH R enables simple or double anchoring of drop cables. Recommended for round cables with diameters between 2.5 and 5mm.

Thermoplastic single-piece construction with a closed conical body, a round integral wedge secured to the body through a link and an opening bail.

Features:

- Cost-effective, single-piece design
- Simple and fast installation requiring no tools
- Efficient cable grip by conical wedging
- Manual adjustment of the lowest point of the cable by blocking the wedge on remote position
- Mounting on all pole line hardware with open or closed eye and min. Ø 10mm

PART NO.	DESCRIPTION
S83-4038	DROP CABLE ANCHORING CLAMP 2.5-5MM

DROP MANDREL CLAMP 3-4MM

The FTTH drop clamp Mini is used for the dead-ending of 3 to 4mm aerial round drop cables with flexible insulation sheath where spans do not exceed 70m. The Mini is made up of a mandrel shaped body around which the cable is wound and self-tightened.

The clamp can be secured to many different types of closed or opened hardware (min Ø 10mm holes).

PART NO.	DESCRIPTION
S83-4108	DROP MANDREL CLAMP 3-4MM

DROP MANDREL CLAMP 4-6MM

The drop wire clamp is used for the dead-ending of 4mm to 6mm aerial round drop cables distribution networks where spans should not exceed 70m.

The clamp can be secured to many different types of closed or opened hardware (min Ø 10mm holes).

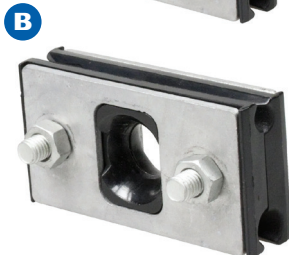| PART NO.	DESCRIPTION
S83-4109	DROP MANDREL CLAMP 4-6MM

A) SC37C 3 TO 7MM SUSPENSION CLAMP

Enables the suspension of optical or coax figure-8 cables with steel or dielectric (FRP) messengers.

B) SC711C 7 TO 11MM SUSPENSION CLAMP

Enables the suspension of optical or coax figure-8 cables with steel or dielectric (FRP) messengers.

C) ARC 6 TO 9MM AERIAL CABLE RELIEF CLAMP

Enables the suspension of figure-8 cables in Hook Aerial Cable 1 and 1A to prevent the wearing of the cable sheath on the galvanised steel hook.

D) TELENCO SUSPENSION CLAMPS FOR ROUND ADSS CABLE

Suspension Clamps for aerial round ADSS cables on drop networks where spans do not exceed 70m. The suspension clamps consist of a nylon body with a nylon bail and a neoprene sleeve. The bodies are secured around the cable with 2 clips and one tie. All parts are UV protected.

PART NO.	DESCRIPTION
S83-1706	A) SC37C 3 TO 7MM SUSPENSION CLAMP
S83-1675	B) SC711C 7 TO 11MM SUSPENSION CLAMP
S83-1677	C) ARC 6 TO 9MM AERIAL CABLE RELIEF CLAMP
S83-1685	D) TELENCO DS4 SUSPENSION CLAMP FOR 4-6MM ROUND ADSS CABLE - BOX OF 100
S83-1686	D) TELENCO DS6 SUSPENSION CLAMP FOR 6-8MM ROUND ADSS CABLE - BOX OF 100
S83-1687	D) S83-1687 TELENCO DS8 SUSPENSION CLAMP FOR 8-12MM ROUND ADSS CABLE - BOX OF 30
S83-1688	D) S83-1688 TELENCO DS12 SUSPENSION CLAMP FOR 12-15MM ROUND ADSS CABLE - BOX OF 30
S83-1689	D) S83-1689 TELENCO DS15 SUSPENSION CLAMP FOR 15-17MM ROUND ADSS CABLE - BOX OF 30

RIGID CABLE PROTECTING GUARDS

- Available in 4 different sizes
- Pre-punched to aid installation
- Manufactured from high-impact PVC, for extra protection
- Supplied in 2.4m lengths
- Supplied in black.

V01-4058: (also known as capping 26)
Black PVC channel section 2440mm long x 51mm wide.

Used on walls and wooden poles for protected cable space up to 40mm in diameter.

Ref 072903.

V01-4056: (also known as capping 22)
Black PVC channel section 2440mm long x 51mm wide.

Used on walls and wooden poles for protected cable space up to 19mm in diameter.

Ref: 070316.

PART NO.	DESCRIPTION
V01-4056	19MM RIGID CABLE PROTECTOR 3M (CAPPING 22)
V01-4057	25MM RIGID CABLE PROTECTOR 3M
V01-4058	40MM RIGID CABLE PROTECTOR 3M (CAPPING 26)
V01-4059	55MM RIGID CABLE PROTECTOR 3M

A) BROWN RISER GUARD 2.4M PK10

Brown Riser Guard with pre-drilled holes for concealing cables up to a diameter of 25mm, used in conjunction with S83-5091 dual connector bend capping.
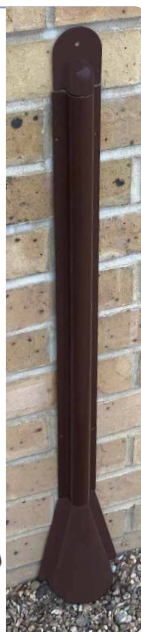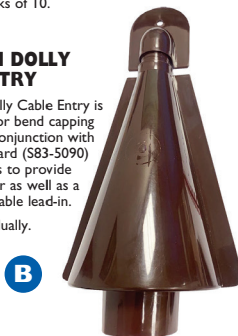
Manufactured from high impact uPVC.

Length 2.4m.

Supplied in packs of 10.

B) BROWN DOLLY CABLE ENTRY

The Brown Dolly Cable Entry is a dual connector bend capping to be used in conjunction with brown riser guard (S83-5090) and moulded as to provide a capping footer as well as a cover for the cable lead-in.

Supplied individually.

PART NO.	DESCRIPTION
S83-5090	A) BROWN RISER GUARD 2.4M PK10
S83-5091	B) BROWN DOLLY CABLE ENTRY

CAPPING STEEL NO.1

A galvanised steel channel section 2400mm long x 76mm wide pre-drilled for fixing. Used on wooden poles for protected cable space up to 19mm in diameter.

Ref: 070320.

PART NO.	DESCRIPTION
S83-2735	CAPPING STEEL NO. 1

CONNECTOR BEND NO. 1

Connector Bend No. 1 or Elephant's Foot capping adaptor for use at distribution points for connecting 90mm ducts to 19mm capacity Capping Steel No. 1.

Ref: Ref 090951.

PART NO.	DESCRIPTION
S83-2758	CONNECTOR BEND NO. 1

CAPPING STEEL NO.4

A galvanised steel channel section 2400mm long x 54mm wide, pre-drilled for fixing. Used on wooden poles for protected cable space up to 51mm in diameter.

Ref: 070323.

PART NO.	DESCRIPTION
S83-2736	CAPPING STEEL NO. 4

POLE DEPTH TUBE (DIP STICK)

Round rigid super high impact heavy gauge black 20mm PVC conduit.

Can be used to ensure and test that a pole has been installed to the required minimum depth appropriate for the specific pole.

The conduit is installed parallel to the pole and should be secured using S83-1967 50mm galvanised staples.

The conduit should also be capped using S83-3550 20mm pole depth tube cap.

PART NO.	DESCRIPTION
V01-1153	ROUND PVC CONDUIT BLACK 20MM 3M

CAPPING STEEL NO.5

A galvanised steel channel section 2400mm long x 80mm wide, pre-drilled for fixing. Used on wooden poles for protected cable space up to 76mm in diameter.

Ref: 070324.

PART NO.	DESCRIPTION
S83-2737	CAPPING STEEL NO. 5

GALVANISED STAPLES 65MM 5KG TUB

Specialist galvanised staples for securing pole depth tubes (dip sticks) to poles. The staples are 6mm in diameter, 65mm in depth and supplied in a 5kg tub (Approx 190 pieces).

PART NO.	DESCRIPTION
S83-1967	GALVANISED STAPLES 65MM 5KG TUB

CAPPING STEEL NO.8

A galvanised steel channel section 610mm x 100mm wide. Used on wooden poles for protecting cable space up to 89mm in diameter.
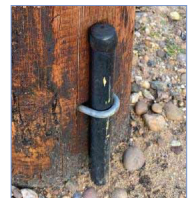
Ref: 001627.

PART NO.	DESCRIPTION
S83-1753	CAPPING STEEL NO. 8

POLE DEPTH TUBE CAP 20MM PK100

LDPE 20mm push fit cap for sealing pole depth tubes (dip sticks) to prevent water ingress. Supplied in a pack of 100.
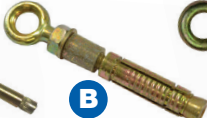

PART NO.	DESCRIPTION
S83-3550	POLE DEPTH TUBE CAP 20MM PK100

A) EYEBOLT EXPANDING 1A

A dropwire fixing consisting of a Zinc plated steel eyebolt with an M6 thread. This is the preferred method of attaching a dropwire to brickwork at end users' premises. Overhead single point fixing bolt. Ring size 12mm. Required hole size 12mm x 50mm. Box 20. Ref: 016445.

B) EYEBOLT EXPANDING 2A

A dropwire fixing consisting of a Zinc plated steel eyebolt with an M10 thread. This is the preferred method of attaching a dropwire to the end users premises, where the walls are rendered. Ring size:14mm. Required Hole size: 16mm diameter x 95mm depth. Box 20. Ref: 016442 / 021689 / 023041.

C) M8 EYEBOLT

Eyebolt M8 x 95mm for use with Catenary Wire Kits (R02-7028) and associated accessories.

Provides temporary or permanent anchorage in stone, concrete or brickwork. Supplied with shield, washer and hex nut.

D) EYEBOLT EXPANDING 2B

A dropwire fixing consisting of a Zinc plated steel eyebolt with an M10 thread and a length of 205mm. This is the preferred method of attaching a dropwire to the end users premises, where the walls are clad. Ring size 23mm ID with 40mm OD.

E) EYEBOLT EXPANDING 2C

A dropwire fixing consisting of a Zinc plated steel eyebolt with an M10 thread and a length of 255mm. This is the preferred method of attaching a dropwire to the end users premises, where the walls are heavily clad. Ring size 23mm ID with 40mm OD.

PART NO.	DESCRIPTION
S83-1853	A) EYEBOLT EXPANDING 1A PKT 20
S83-0901	B) EYEBOLT EXPANDING 2A PKT 20
R02-7024	C) M8 EYEBOLT PKT 20

PART NO.	DESCRIPTION
S83-2626	D) EYEBOLT EXPANDING 2B PKT 5
S83-2628	E) EYEBOLT EXPANDING 2C PKT 5

A) BOLT EXPANDING 1A

Zinc plated steel stud with an M10 thread. Used in joint boxes and manholes to fix Cable Bearers (S83-3203-S83-3208) and Steps Manhole No.2 (S83-3217). Size M10 x overall Length 85mm. Designed for use in an 12mm diameter hole Supplied in a pack of 20 Ref: 071906.

B) BOLT EXPANDING 2A

M10 x 90mm (Overall Length 105mm) expansion bolt with a 30mm diameter washer requiring a 16mm hole to be drilled into concrete or brickwork - supplied in boxes of 25. Ref: 021689.

C) STUD EXPANDING 1A

Zinc plated steel stud with an M6 thread (similar to Eyebolt Expanding 1A).

Used when securing S83-2724 Bracket 32 and S83-9215 Wall Plate 5A to brickwork. Designed for use in an 8mm diameter hole. Ref: 016303.

PART NO.	DESCRIPTION
S83-2869	A) BOLT EXPANDING 1A PKT 20
S83-1773	B) BOLT EXPANDING 2A BOX OF 25
S83-1854	C) STUD EXPANDING 1A PKT 20

CRANKED COMBINATION SPANNERS

Combination Spanners - cranked at 20 degrees to prevent knuckles from rubbing on brickwork and general masonry.

A) 10mm combination spanner for installing Bolt Expanding 1a, Eyebolt Expanding 1a and other 10mm hexagon headed fixings.

Ref: 127468

B) 17mm combination spanner for installing Bolt Expanding 2a, Eyebolt Expanding 2a and other 17mm hexagon headed fixings.

Ref: 129393/141751.

PART NO.	DESCRIPTION
H72-1771	A) 10MM COMBINATION SPANNER
H72-1772	B) 17MM COMBINATION SPANNER

STAPLES GALVANISED

A) Galvanised steel staple, "U" shaped approximately 40mm wide and used to retain single strand suspension wire to poles when making a termination.

Ref:16270.

B) Galvanised steel staple, "U" shaped approximately 50mm wide. Used to retain multi strand suspension wire and CAC's to poles when making a termination.

Ref: 016271.

PART NO.	DESCRIPTION
S83-2857	A) 40MM STAPLE PK 1KG
S83-2858	B) 50MM STAPLE PK 1KG

A) COUNTERSUNK POLE FIXING SCREW

Pozidrive zinc plated countersunk wood screw with twin thread profile for fast installation. Supplied in boxes of 200.

B) PANHEAD POLE FIXING SCREW

Pozidrive zinc plated panhead wood screw with twin thread profile for fast installation. Supplied in boxes of 200.

PART NO.	DESCRIPTION
S83-0859	A) NO.12 X 1" COUNTERSUNK POZI WOOD SCREW PK 200
S83-2927	A) NO.12 X 1.1/2" COUNTERSUNK POZI WOOD SCREW PK 200
S83-2928	A) NO.12 X 2" COUNTERSUNK POZI WOOD SCREW PK 200
R02-1662	A) NO.12 X 2.1/2" COUNTERSUNK POZI WOOD SCREW PK 200
S83-1823	A) NO 12 X 3" COUNTERSUNK POZI WOOD SCREW PK 200
R07-1747	B) NO.12 X 1" PANHEAD POZI WOOD SCREW PK 200
R07-1748	B) NO.12 X 1.1/2" PANHEAD POZI WOOD SCREW PK 200
R07-1749	B) NO.12 X 2" PANHEAD POZI WOOD SCREW PK 200

FIBRE DROP CABLE CLEATS PK100

Specialist cable cleats for CommScope Easy Access and Corning ROC Drop Cable.
Supplied in black.
Pack of 100.
Ref: 080809.

PART NO.	DESCRIPTION
R02-2587	FIBRE DROP CABLE CLEATS PK100

CABLE CLEATS FOR HYBRID CABLE COF 820 PK 100

Specialist Cable Cleats for Hybrid Cable COF 820.
Supplied in black.
Pack of 100
Ref 080809.

PART NO.	DESCRIPTION
R02-4312	CABLE CLEATS FOR HYBRID CABLE COF 820 PK 100

A) CABLE TIE TENSIONER 5A (PLASTIC) 2.4 - 4.6

Lightweight and durable cable tie gun, squeeze trigger to tension, twist to cut. For nylon cable ties 2.5 - 4.8 mm. Ref: 126820.

B) CABLE TIE TENSIONER 7A (PLASTIC) 4.6 - 7.6

Lightweight and durable cable tie gun, squeeze trigger to tension, twist to cut. For nylon cable ties from 4.8 - 7.6 mm.

C) CABLE TIE GUNS

Cable tie gun with automatic cut-off in one simple pull of a trigger. Designed for use on nylon cable ties with widths from 2.2 to 4.8mm and a thickness up to 1.6mm.

D) MILLS CABLE TIE REMOVAL TOOL

A simple tool for quick, easy and safe removal of most sizes of cable ties.

PART NO.	DESCRIPTION
S83-0945	A) TENSIONER 5A (PLASTIC) 2.4 - 4.6
S83-0853	B) TENSIONER 7A (PLASTIC) 4.6 - 7.6
S57-3005	C) PROFESSIONAL CABLE TIE GUN
S57-4005	D) S57-4005 MILLS CABLE TIE REMOVAL TOOL

STRAPS CABLE FIXING

Suitable for a variety of applications, such as cable binding or harnessing. Supplied in a pack of 100 with the exception of S83-0896 which is supplied in 50.

- Manufactured from UL approved virgin nylon 6/6
- General operating temperature: -40°C to 85°C
- Flammability rating: UL94V-2 (self-extinguishing within 30 seconds)
- UV resistant for outdoor use (black ties only)
- Black ties are halogen free
- RoHS compliant

PART NO.	DESCRIPTION
S83-2703	1C BLACK 100MM X 2.5MM (T18R) - PKT 100
S83-0904	1A BLACK 270MM X 4.8MM(LK2A) - PKT 100
S83-0896	10A BLACK 540MM X 13.0MM (LK5B) - PKT 50
S00-3121	BLACK 540MM X 8MM - PKT 100
S83-2704	1C NATURAL 100MM X 2.5MM (T18R) - PKT 100
S83-2929	1A NATURAL 270MM X 4.8MM (LK2A) - PKT 100

FUSION CABLE TIE HANDY PACK

A handy pack of 200 different sized, multicoloured cable ties. Suitable for a variety of applications such as cable binding or harnessing.

Comprising:
25 x 2.5 x 100mm Red
25 x 2.5 x 100mm Green
25 x 2.5 x 100mm Blue
25 x 2.5 x 100mm Yellow
25 x 2.5 x 150mm Natural
25 x 2.5 x 150mm Black
25 x 3.6 x 200mm Natural
25 x 3.6 x 200mm Black

- Manufactured from UL approved virgin nylon 6/6
- General operating temperature: -40°C to 85°C
- Flammability rating: UL94V-2 (self-extinguishing within 30 seconds)
- RoHS compliant

PART NO.	DESCRIPTION
T70-0623	FUSION CABLE TIE HANDY PACK

STRAP CABLE FIXING 12A (REL180)

Black, releasable cable tie for use in overhead cabling.
Ideal for temporary fastening.

Size: 180mm x 7.5mm.

Supplied in packs of 50.

PART NO.	DESCRIPTION
S83-0886	STRAP CABLE FIXING 12A (REL180)

TIPTAGS AND PRINTER

The Tiptag HF cable markers have been designed to identify microduct and cable bundles.

Tiptag HF is halogen free and its material properties show low smoke propagation, density and toxicity. Tiptags are presented in a special perforated format which includes fastening slots for easy fitting with cable ties.

They are also suitable for retrofit purposes.

Print from the reel with HellermannTyton's premium range of thermal transfer printers and ribbons for optimum print quality and longevity.

Features and benefits:

• Ideal for marking larger wire and cable bundles

• Halogen free

• Low smoke propagation and toxicity

• Perforated format that includes fastening slots for cable ties

• Colour: Yellow

• Available in 3 Sizes.

A

Please see website for further details

B

The TT431 thermal transfer printer is perfect for printing on HellermannTyton materials such as self-adhesive labels, shrinkable tubing and TipTag identification tags.

Thanks to its low weight and compact construction, the TT431 integrates seamlessly into any workstation.

It is easy to use due to its intuitive colour LCD touch display and clear status messages which can be shown in multiple languages.

The optional cutter and perforator make this printer ideal for a wide range of applications. 300 dpi resolution ensures that barcodes, warning symbols, logos and text are as sharp as they can be.

PART NO.	DESCRIPTION
C71-0425	A) TIPTAG 11MM X 65MM HT REF TIPTAG11X65YE PKT 190
C71-0423	A) TIPTAG 11MM X 100MM HT REF TIPTAG11X100YE PKT 120
C71-0424	A) TIPTAG 15MM X 100MM HT REF TIPTAG15X100YE PKT 120
C71-0420	B) HELLERMANNTYTON TT431 THERMAL TRANSFER PRINTER

BROTHER P-TOUCH E300VP HANDHELD PRINTER LABEL KIT

The P-Touch E300VP is the only portable approved and specified by Openreach and can be set up by the user to produce 18mm wide PIANOI flag labels

It's a durably engineered machine with a rechargeable battery and AC adaptor that makes printing labels from 3.5 to 18mm wide simple. And it's also compatible with high-grade and self-laminating tapes, as well as heat-shrink tubes.

Features

• Prints hard-wearing labels up to 18mm wide

• Up to 20mm per second print speed + 5 lines of print

• QWERTY style keyboard + 15 character, 2-line, backlit LCD screen

• Time and date printing function, 168 electrical and audio/visual specific symbols

• Convenient manual cutter with pause function

• Comes with carry case, wrist strap and rechargeable Li-ion battery pack

Supplied with Li-ion battery, 240v ac adaptor, user guide, 18mm black on yellow cassette, wrist strap in robust carry case

A 12v car charger (C92-5102) is available as an accessory and other size labels for different application as shown on our website millsltd.com.

Dimensions:
133 (W) x 220 (H) x 74 (D).
Weight:
0.740 kg.

A

B

C
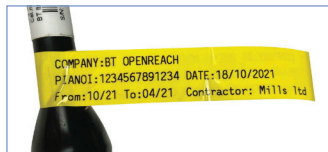
PART NO.	DESCRIPTION
C92-5102	A) BROTHER P-TOUCH E300VP HANDHELD PRINTER LABEL KIT
C92-4957	B) BROTHER STANDARD TZE-641 LAMINATED TAPE 18MM YELLOW
C92-5107	C) 12V - 24V CHARGER SUITABLE FOR BROTHER P-TOUCH HANDHELD PRINTERS

BRADY BMP61 LABEL PRINTERS AND ACCESSORIES

A) Brady BMP61 Label Printer QWERTY UK
B) Brady BMP61 Label Printer QWERTY UK WiFi

The rugged, thermal transfer BMP61 Label Printer is compatible with 800 labels and ribbons. Each combination represents a durable identification solution designed to endure extreme contexts and to keep cables and components identified in the most demanding industries.

BMP61 can print sleeves, self-laminating labels, raised profile labels, tags and other identification solutions in a vast range of materials, sizes and colours up to 50.8 mm wide. Wifi-version is compatible with mobile apps: create or load label templates

C) Brady PTLFT-01-425 Polypropylene Flag Label 30 x 20mm White - Roll 250

Easy-to-apply non-tear flag label perfect for fibre optic cable tags. Allows the user to print a substantial amount of characters. Suitable for harsh environments. Permanent Adhesive.

D) Brady PTL-8-439 Vinyl General Identification Label 12.7 x 15.24mm White - Roll

Flexible vinyl labels for general industrial identification that conform well to various smooth or rough surfaces. The labels are designed to have excellent resistance to oils, detergents, dirt grime and other solvents.

E) Brady PTL-21-427 Self Lam Vinyl Wrap Around Label 25.4 x 63mm White - Roll of 100

Vinyl self-laminating white labels allow you to mark wires and cables after cabling. Markings are protected by a covering ideal for wet and oily environments.

F) Brady Ribbon Cartridge M61-R4310 for BMP61 & M611 Label Printers

Black printer ribbon cartridge suitable for use with the BMP61 label printer. Chemical, environmental and smear resistant.

G) Brady Ribbon Cartridge M61-R6610 for BMP61 & M611 Label Printers

Black printer ribbon cartridge suitable for use with the BMP61 label printer.

H) Brady Ribbon Cartridge M61-R6010 for BMP61 & M611 Label Printers

High heat and scratch and solvent resistant.

I) Brady BM71-25x75-7643-YL Polyurethane Tie-on Cable Tag 25x75mm Yellow - Pk250

For data and telecommunications wire and cable. These B-7643 cable tags contain no added halogens and offer excellent fire safety characteristics combined with minimal smoke emission.

J) Brady BM71-15x75-7598-YL Polyester Tie-on Cable Tag 15x75mm Yellow - Pk250

For data and telecommunications wire and cable. Gloss finish.

K) Brady BM71-15x75-7643-YL Polyurethane Tie-on Cable Tag 15x75mm Yellow - Pk250

For data and telecommunications wire and cable. These B-7643 cable tags contain no added halogens and offer excellent fire safety characteristics combined with minimal smoke emission.

L) Brady BMP61-B7597-35X102-YL-BLNK Polyethylene Tie-on PIANOI Cable Tags 35x102mm Yellow- Roll of 250

Print professional quality, long lasting PIANOI labels using the Brady BMP61 portable label printer. Label content can be configured to specific user requirements. Create durable, long-lasting labels. Supplied in a pre-perforated strip. For use with the M61-6610 Ribbon Cartridge. Brady recommends the use of their WorkStation software or the Express Label app to configure these labels. The row of square boxes shown in the images can only be created using these, they cannot be created directly on the BMP61 printer.
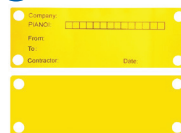
Please see website for further details

PART NO.	DESCRIPTION
C28-0460	A) BRADY BMP61 LABEL PRINTER QWERTY UK
C28-0461	B) BRADY BMP61 LABEL PRINTER QWERTY UK WIFI
C28-0462	C) BRADY PTLFT-01-425 POLYPROPYLENE FLAG LABEL 30 X 20MM WHITE - ROLL 250
C28-0464	D) BRADY PTL-8-439 VINYL GENERAL IDENTIFICATION LABEL 12.7 X 15.24MM WHITE - ROLL
C28-0465	E) BRADY PTL-21-427 SELF LAM VINYL WRAP AROUND LABEL 25.4 X 63MM WHITE - ROLL OF 100
C28-0466	F) BRADY RIBBON CARTRIDGE M61-R4310 FOR BMP61 & M611 LABEL PRINTERS
C28-0469	G) BRADY RIBBON CARTRIDGE M61-R6610 FOR BMP61 & M611 LABEL PRINTERS
C28-0471	H) BRADY RIBBON CARTRIDGE M61-R6010 FOR BMP61 & M611 LABEL PRINTERS
C28-0467	I) BRADY BM71-25X75-7643-YL POLYURETHANE TIE-ON CABLE TAG 25X75MM YELLOW - PK250
C28-0468	J) BRADY BM71-15X75-7598-YL POLYESTER TIE-ON CABLE TAG 15X75MM YELLOW - PK250
C28-0470	K) BRADY BM71-15X75-7643-YL POLYURETHANE TIE-ON CABLE TAG 15X75MM YELLOW - PK250
C28-0481	L) BRADY BMP61-B7597-35X102-YL-BLNK POLYETHYLENE TIE-ON PIANOI CABLE TAGS 35X102MM YELLOW- ROLL OF 250

DEFECTIVE POLE LABEL A1024 LILAC PACK OF 10

The Mills A1024 label is used to identify and record defective poles.

Supplied in packs of 10. Also available in yellow C00-1787.

A1024

Serial No
Defect

Name
OUC   Date

Use permanent ink pen throughout and tie to defective plant or equipment.
Remove label and return it to your manager on completion of the remedial work.
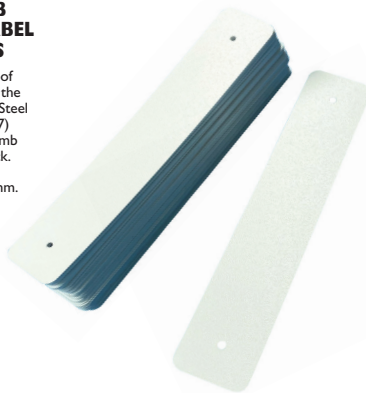
PART NO.	DESCRIPTION
S83-1915	DEFECTIVE POLE LABEL A1024 LILAC PACK OF 10

PRE-CLIMB CHECK LABEL FOR POLES

White tear-proof label affixed to the pole, using Pin Steel No 2 (S83-0857) to mark pre-climb inspection check.

Size: 125 x 25mm.

Supplied in packets of 50.

PART NO.	DESCRIPTION
S83-1755	PRE-CLIMB POLE INSPECTION CHECK LABEL - PK 50

CABLING LABEL

For identification of newly provided cables. All pre-printed fields need to be completed with a Pen Marker No 1 (S83-0948). The yellow 100mm x 35mm labels are supplied in reels of 250 and have 4 x 6mm pre-cut holes in each corner for affixing into position using cable ties.

Company:
PIANO1
From:
To:
Contractor:
Date: /   /

PART NO.	DESCRIPTION
C71-0629	CABLING LABEL (REEL OF 250)

SHARPIE PERMANENT MARKER

A) Quick drying permanent marker pens. Suitable for most surfaces and ideal for cable labelling. Available in 2 styles.

B) Retractable
Standard tip in black.
No cap to remove or lose.

PART NO.	DESCRIPTION
C71-6895	A) TWIN TIP FINE & ULTRA FINE X2 BLACK
C71-9820	A) TWIN TIP FINE & ULTRA FINE X12 BLACK
C71-9826	B) RETRACTABLE FINE TIP X12 BLACK

PERMANENT MARKER PENS IN BLACK, GOLD AND WHITE

A) PEN MARKER NO.1

Permanent waterproof black marker pen for most surfaces with 0.6mm fine nib thickness providing smudge proof and waterproof qualities on almost all surfaces. Low odour ink and can be left uncapped for days without drying up.
Ref: 129408.

B) SHARPIE FINE TIP PEN MARKER GOLD NO.2

Permanent waterproof gold marker pen for most surfaces with fine nib thickness providing smudge proof and waterproof qualities on almost all surfaces.
Formerly S83-0960

C) WHITE PAINT MARKER 2.5MM TIP

Premium quality oil-based white paint marker pen can be used on almost any surface. Oil-Based pigment premium ink, non-toxic conforms to ASTM D4236 EN71-3, lightfast and water resistant.

PART NO.	DESCRIPTION
S83-0948	A) PEN MARKER NO.1
C71-9824	B) PEN MARKER GOLD NO.2
S83-0381	C) WHITE PAINT MARKER 2.5MM TIP

DP POLE LETTERS AND NUMBERS

A selection of popular letters and numbers for pole identification. Black lettering or numbering on a 40mm plastic disc with two pre-drilled holes. The discs can be affixed to the pole using Pin Steel No 2 (S83-0857).

Packs of 100.

PART NO.	REF	DESCRIPTION
S83-2810	000463	LETTER POLE PLASTIC A (PKT 50)
S83-2811	000464	LETTER POLE PLASTIC B (PKT 50)
S83-2812	000465	LETTER POLE PLASTIC C (PKT 50)
S83-2813	000466	LETTER POLE PLASTIC D (PKT 50)
S83-2814	000467	LETTER POLE PLASTIC E (PKT 50)
S83-2815	000468	LETTER POLE PLASTIC J (PKT 50)
S83-2816	000469	LETTER POLE PLASTIC L (PKT 50)
S83-2817	000470	LETTER POLE PLASTIC M (PKT 50)
S83-1810	025777	LETTER POLE PLASTIC N (PKT 50)
S83-1809	000479	LETTER POLE PLASTIC P (PKT 50)
S83-2818	000460	LETTER POLE PLASTIC S (PKT 50)
S83-2819	000462	LETTER POLE PLASTIC T (PKT 50)
S83-1811	025778	LETTER POLE PLASTIC W (PKT 50)
S83-2999	000470	NUMBER POLE PLASTIC 0 (PKT 50)
S83-2824	000471	NUMBER POLE PLASTIC 1 (PKT 50)
S83-2825	000472	NUMBER POLE PLASTIC 2 (PKT 50)
S83-2826	000473	NUMBER POLE PLASTIC 3 (PKT 50)
S83-2827	000474	NUMBER POLE PLASTIC 4 (PKT 50)
S83-2828	000475	NUMBER POLE PLASTIC 5 (PKT 50)
S83-2829	000476	NUMBER POLE PLASTIC 6 (PKT 50)
S83-2830	000477	NUMBER POLE PLASTIC 7 (PKT 50)
S83-2831	000478	NUMBER POLE PLASTIC 8 (PKT 50)
S83-2832	000479	NUMBER POLE PLASTIC 9 (PKT 50)

H (HAZARD PLATE) ORANGE LABEL PKT 10

The pole is within 1 metre of a defined hazard (spiked railings etc)-MEWP access only, but full range of engineering activities are permitted.

PART NO.	DESCRIPTION
S83-0379	H (HAZARD PLATE) ORANGE LABEL PKT 10

D (DEFECTIVE) RED PLATE LABEL PKT 10

The pole is "defective" or "unsatisfactory" - the pole should not be climbed.

PART NO.	DESCRIPTION
S83-0376	D (DEFECTIVE) RED PLATE LABEL PKT 10

SD (SHALLOW DEPTH) RED PLATE LABEL PKT 10

The pole is planted at a shallow depth, these are not currently prioritised for renewal. They must not be climbed, but can be worked on from a MEWP. Work permitted includes renewal of existing drop wires and attachment of new drop wires, but not aerial cables.

PART NO.	DESCRIPTION
S83-0377	SD (SHALLOW DEPTH) RED PLATE LABEL PKT 10

C (SHALLOW CLIMBABLE) GREEN PLATE LABEL PKT 10

The pole is marginally shallow, but is OK to climb as long as additional rules are followed.

PART NO.	DESCRIPTION
S83-0378	C (SHALLOW CLIMBABLE) GREEN PLATE LABEL PKT 10

Z (SAFE CLIMB ZONE POLE) GREEN PLATE LABEL PKT 10

The pole is within 1 metre of a defined hazard, but has been assessed as having a safe climb zone, which allows those who have obtained accreditations to access.

PART NO.	DESCRIPTION
S83-0380	Z (SAFE CLIMB ZONE POLE) GREEN PLATE LABEL PKT 10

PRYSMIAN CASALINK CBTs

The Casalink Block Terminal (CBT) is a pre-connectorised closure designed for use in the external environment with an IP rating of IP68.

The closure comes in three sizes, 4, 8 and 12 Drop and can be supplied with splitters installed including unbalanced splitters to allow connecting multiple boxes to one another.

The closure is supplied sealed so the internal workings cannot be tampered with.

Additionally a separate mounted bracket is supplied to ease the installation when working at height.

CBTs with splitters pre-installed are supplied without feeder cable.

Features and Benefits:
- Compact design.
- Minimal visual impact.
- Quick and easy access.
- Easy to install

Testing:
- Dry Heat: IEC60068-2-2
- Change of Temperature: IEC60068-2-14
- Damp Heat: IEC60068-2-78
- Head Of Water: IEC60068-2-17 (Test QF)
- Vibration: IEC60068-2-6
- Shock: IEC60068-2-27

Technical Data:
- Required space envelope (mm):
  4f (h) 176 x (w) 134 x (d) 92
  8f (h) 176 x (w) 134 x (d) 129
  12f (h) 176 x (w) 178 x (d) 129
- Operating temperature: -20 degrees C to + 60 degrees C (5 to 95% RH)
- Material: 10% Glass Filled Polypropylene
- Colour: Black

Prysmian Group

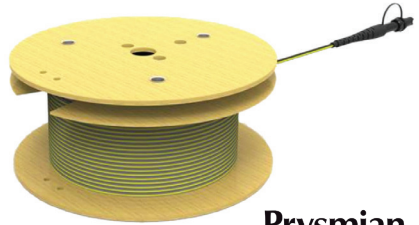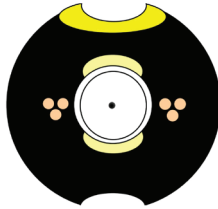| PART NO.	DESCRIPTION	PORTS
XCPSC03917	A) Prysmian Casalink CBT with 4 SC/APC Outputs 1:4 Balanced Splitter & 1x SC/APC Input	4
XCPSC03741	A) Prysmian Casalink CBT with 4 SC/APC Outputs & 100m Pre-installed Cable	4
XCPSC03740	B) Prysmian Casalink CBT with 8 SC/APC Outputs & 100m Pre-installed Cable	8
XCPSC03888	B) Prysmian Casalink CBT with 8 SC/APC Outputs 1:8 Balanced Splitter & 1x SC/APC Input	8
XCPSC03926	C) Prysmian Casalink CBT with 12 SC/APC Outputs & 100m Pre-installed Cable	12
XJTSC03350	D) Prysmian CBT Half Size MOBRA Kit	
XJTSC02405	E) Prysmian UMJ CMJ MMJ Casalink Mobra Mounting Bracket	

PRYSMIAN CASALINK DROP CABLES

Prysmian CasaLink Block Terminal (CBT) Drop Cables are of a single fibre design terminated at one end with an SC/APC connector.

This connector is housed in a shroud and has a pulling eye to support installation.

The terminated end is secured into the Casalink BlockTerminal (CBT), and the unterminated end is spliced at the customer premises.

In addition to pre-terminated CBT drop cables, a termination kit is also available that provides all the components for local termination.

Visit millsltd.com for more info

PART NO.	DESCRIPTION
XPCSC01138	PRYSMIAN CASALINK BLOCK TERMINAL 1F DROP CABLE 20M PIA APPROVED
XPCSC01141	PRYSMIAN CASALINK BLOCK TERMINAL 1F DROP CABLE 35M PIA APPROVED
XPCSC01214	PRYSMIAN CASALINK BLOCK TERMINAL 1F DROP CABLE 65M PIA APPROVED
XPCSC01215	PRYSMIAN CASALINK BLOCK TERMINAL 1F DROP CABLE 105M PIA APPROVED
XPCSC01159	PRYSMIAN CASALINK BLOCK TERMINAL 1F DROP CABLE 160M PIA APPROVED
XPCSC01680	PRYSMIAN CASALINK BLOCK TERMINAL 1F DROP CABLE 350M PIA APPROVED

PRYSMIAN CASALINK CUSTOMER TERMINATION PRODUCTS

A) PRYSMIAN CASALINK CBT CUSTOMER DROP CABLE TERMINATION KIT 3MM

For the termination of alternative customer drop cable enabling the fibre termination to interface with Prysmian Casalink CBTs.
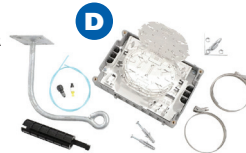
B) PRYSMIAN CBT POLE STRAP KIT

The Prysmian CBT Pole Strap kit is used to fix a CBT to a pole. The Clamps are made from stainless steel for durability and strength.

C) PRYSMIAN CASALINK CBT CONNECTOR TOOL PK5

The Prysmian CBT Connector tool is used to loosen and tighten the shroud used on customer drops or the input of splitter versions of the CBT.

Supplied in a pack of 5.

D) PRYSMIAN CASALINK CTB EXTERNAL CUSTOMER TERMINATION BOX MK1

The CTB External Customer Termination Box is a wall mounted product that can be used for splicing the CBT drop cable to the Internal External cable that enters the house.

PART NO.	DESCRIPTION
XKTSC01443	A) PRYSMIAN CASALINK CBT CUSTOMER DROP CABLE TERMINATION KIT 3MM
XKTSC01442	A) PRYSMIAN CASALINK CBT CUSTOMER DROP CABLE TERMINATION KIT 6MM
XCPSC03749	B) PRYSMIAN CBT POLE STRAP KIT
XKTSC01437	C) PRYSMIAN CASALINK CBT CONNECTOR TOOL PK5
XCPSC03744	D) PRYSMIAN CASALINK CBT EXTERNAL CUSTOMER TERMINATION BOX MK1

PRYSMIAN 36F, 48F AND 96F ULTRA LIGHT-WEIGHT ULW OVERHEAD AND UNDERGROUND CABLE

These multi-unit optical drop cables are designed for aerial and/or duct applications and are suitable for use under 11kV power cables.

A) PRYSMIAN 36F ULTRA-LIGHT WEIGHT (ULW) CABLE (2KM REEL)

Layout: 3 x 12 singlemode fibres. Cable Diameter: 7.0mm

B) PRYSMIAN 48F ULTRA-LIGHT WEIGHT (ULW) CABLE (2KM REEL)

Layout: 4 x 12 singlemode fibres. Cable Diameter: 7.1mm

The fibre is supplied in a 2km length on plywood reels, longer lengths are available on request.

C) PRYSMIAN 96F OPTICAL AERIAL DROP CABLE (ULW) - 2KM DRUM

Layout: 4 units x 12 fibres. Cable diameter: 7.1mm

PART NO.	DESCRIPTION
60082615	A) 36F ULTRA-LIGHT WEIGHT (ULW) (2KM REEL)
60050990	B) 48F ULTRA-LIGHT WEIGHT (ULW) (2KM REEL)
60098854	C) PRYSMIAN 96F OPTICAL AERIAL DROP CABLE (ULW) - 2KM DRUM

THE NOVUX HARDENED TERMINALS (CBTs)

Configurable, Scalable, Simple

Whatever the application, wherever you need to mount them, NOVUX hardened terminals are ready. The built-in mounting tabs and mounting strap feature easy, direct mounting onto a strand, flat surface, pole, pedestal, or within a hand hole. Alternatively, to ease installation and maintenance, CommScope's universal mounting bracket can be used in all mounting applications. With one common platform, installation across the series is easy and efficient and is backed by consistent documentation and training.

NOVUX hardened terminals
Up to 40% smaller *Compared to existing MST terminals with universal mounting brackets

Widest variety of technologies available from a single platform
- Single- and multi-fibre, splitters, optical tap, fibre indexing, and on-demand hybrid configurations

Application flexibility for new builds and upgrades
- Extended choice of cable types and sizes; stubless configurations
- Minimised footprint for optimal port count and terminal size
- Black and gray colors for ease of concealment

Ready for the field workforce of the future
- Unique network identification with ID plate and QR code
- Uniform installation practices and documentation speeds cross-training
- Digital access to all product information powered by CommScope cTrak® app

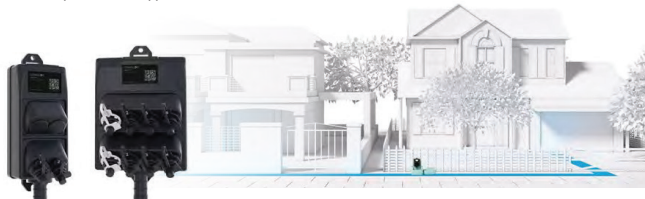**Agile global supply chain backed by common platform design and processes**
- Multiple global locations with local manufacturing advantage
- Industry-renowned local field expertise and support

NOVUX single-fibre terminals

- Ideal for single-family unit communities
- Up to 12 ports
- Point-to-point (P2P) or splitter configurations

NOVUX multi-fibre terminals

- Ideal for multi-fibre applications
- Up to 12 ports
- 2 to 12 fibres per port

NOVUX optical tap terminals

- Reduce deployment costs in rural or low-density applications
- Plug-and-play 2, 4, 8 drops

NOVUX fibre indexing terminals

- Leverage innovative fibre indexing for new builds
- 12 and 24 fibres

Each terminal in these applications is from the NOVUX HT Series. They're designed to adapt to your application—sharing connection capabilities, a unique product information system, a mounting platform, and customer configurability. While NOVUX hardened terminals are helping build your network, they're building your long-term profitability, because one terminal works for all your applications in all your deployments.

NOVUX hardened terminals				

NOVUX HT	TECHNOLOGIES AVAILABLE	SMALL	MEDIUM	LARGE
HST Series	**Single-fiber: P2P/no splitters**	2 ports	6 ports	12 ports
		4 ports	8 ports	
	Single-fiber: P2P w/splitters	2 ports, 1x1:2	8 ports, 2x1:4	12 ports, 3x1:4
		4 ports, 1x1:4	8 ports, 1x1:8	
	Hybrid for multi-use		7 ports, 1x1:4 splitter, 3 P2P	12 ports, 1x1:8 splitter, 4 P2P
		4 ports, 1x1:2 splitter, 2 P2P	8 ports, 1x1:4 splitter, 4 P2P	11 ports, 2x1:4 splitter, 2 P2P, 1 HMFOC 4f

HMT Series	**Multi-fiber**	Up to 24f	Up to 24f	Up to 24f
		2 ports, each 2, 4, 6, 8 or 12f	6 ports, each 2, 3 or 4f	12 ports, each 2f
		3 ports, each 2, 4, 6, or 8f	8 ports 2 or 3f	
		4 ports, each 2, 4, or 6f		

HTT Series	**Optical taps**	2 drops	4 drops	8 drops

HXT Series	**Fiber indexing**	12 fiber index only, 1f	12 fiber 1:4	12 fiber 1:8
		12 fiber index only, 2f	12f multi-use 2f + 1:4	12 fiber multi-use, 3f +1:4
		12 fiber index only, 3f	24f multi-use 2f	12 fiber multi-use, 4f +1:4
		12 fiber index only, 4f	24f multi-use 3f	12 fiber multi-use, 2f +1:8
		12 fiber multi-use, 2f	24f multi-use 4f	
		12 fiber branching, 2 to 6f per port		

For further information and to configure your Novux hardened terminal solution, please contact our sales department.

Key information to assist with configuration

- Indexing Requirement
- Number of Ports
- Housing Colour -Black, Grey
- Cable Type
- Tap Configuration
- Splitter Configuration
- Underground or Overhead Mounting Accessory
- Drop Fibre Assembly and Length

COMMSCOPE
Distributor

Ring sales for *ordering guide* or visit: millsltd.com

MILLS UNIVERSAL CBT BACK TO BACK POLE BRACKET

A galvanised pole bracket to suit most brands of CBTs (Connector Block Terminals) including Prysmian Casalink, Corning Optisheath, Commscope Novux HT, Hexatronic ASN and Hellerman Tyton AFN,

This two-sided bracket is manufactured from 1.2mm galvanised steel, the bracket is approved for PIA application and fixes to the top of the pole using the panhead screws provided.

The bracket has 4 x 3mm, 8 x 4mm and 4 x 6mm nutserts to accept different manufacturers' CBT's

The 'back to back bracket is supplied with 4 x M3 x 25 Pozi Panhead Screws, 4 x M4 x 30 Pozi Panhead Screws and 4 x M6 x 30 Pozi Panhead Screws

Each face measures 380 x 140 mm and the bracket 'stands off' 165mm, from the pole. The bracket also features a protective strip along the top edge.

Formerly S00-0978. Ref: 095656

PART NO.	DESCRIPTION
S00-1751	MILLS UNIVERSAL CBT BACK TO BACK POLE BRACKET

MILLS UNIVERSAL CBT 3 WAY BACK-TO-BACK HINGED STAND OFF POLE BRACKET

A galvanised pole bracket to suit most brands of CBTs (Connector Block Terminals) including Prysmian Casalink, Corning Optisheath, Commscope Novux HT, Hexatronic ASN and Hellerman Tyton AFN,

This 3 sided bracket is manufactured from 1.2mm galvanised steel, the bracket is approved for PIA application and fixes to the top of the pole using the panhead screws provided.

The bracket has 4 x 3mm, 8 x 4mm and 4 x 6mm nutserts to accept different manufacturers' CBT's

The triple back to back bracket is supplied with 4 x M3 x 25 Pozi Panhead Screws, 4 x M4 x 30 Pozi Panhead Screws and 4 x M6 x 30 Pozi Panhead Screws

Each face measures 380 x 140 mm and the bracket 'stands off' 165mm.
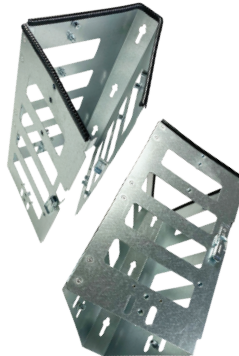
PART NO.	DESCRIPTION
S00-1741	MILLS UNIVERSAL CBT 3 WAY BACK-TO-BACK HINGED STAND OFF POLE BRACKET

MILLS UNIVERSAL FACEPLATE FOR CBT BACK-TO-BACK BRACKETS

A specialist composite material block 360mm x 140mm x 25mm, for mounting on to the double or triple CBT brackets, for provision of legacy copper components and relieving congestion at the top of poles.

The block is predrilled, supplied with 2 x M6 x 30mm panhead screws and benefits from a 25 year warranty. (Bracket not included).
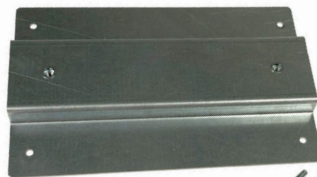
PART NO.	DESCRIPTION
S83-1852	MILLS UNIVERSAL FACEPLATE FOR CBT BACK-TO-BACK BRACKETS

MILLS UNIVERSAL FACEPLATE FOR CBT BACK-TO-BACK BRACKETS

An adaptor plate which allows all Prysmian Casalink CBT's to be fitted to the Mills CBT Back-to-Back, double and triple brackets.

Manufactured from galvanised 1.5mm plate and supplied with 4 x M4 x 25mm Panhead Screws and washers.

PART NO.	DESCRIPTION
S00-5092	MILLS BACK-TO-BACK CBT BRACKET CASALINK ADAPTOR PLATE

THE MILLS POLEMATE SYSTEM

The Polemate range of products and accessories has been specifically designed in conjunction with telecom engineers to assist field operational staff with the installation of telecommunication equipment. The Polemate system comprises a pole-mounting base unit to which splicing trays and cable reel stands can quickly and easily be attached providing a stable platform whilst on site. In addition many of the components are interchangeable with the Mills Pitmate System, shown on our website: **www.millsltd.com**. The Mills Polemate system can be supplied as modular components or as a complete Polemate kit.

MILLS POLEMATE KIT

Kit comprises;

S83-7622 Base Unit
S83-7623 Rubber Wedge Spacers Pk3
S83-7629 Splicer's Work Tray
S83-7624 CBT Arm

A

Polemate Base Unit

…with General Tray
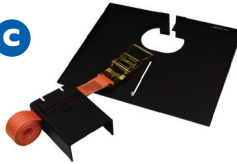
…with Splicer's Tray

…with CBT Reel Arm

B

MILLS POLEMATE BASE UNIT

The foundation of the Polemate system is this Polemate Base Unit which comprises a 50mm wide x 1200mm long webbing ratchet strap and a pole back plate, which can be simply ratcheted to the desired height on the pole.

C

MILLS POLEMATE BASE UNIT WITH SPLICER'S WORKTRAY

This kit contains a 50mm wide x 1500mm long webbing strap with back plate and splice table with slicer tripod fixing 508mm x 408mm.
Strap Dimensions 50mm width x 1500mm in length. Splice Tray 508mm width x 408mm depth x 2mm thickness. Total weight 5.2Kg.

D

SPLICER'S WORK TRAY

A purpose-made splicer's tray that simply slots into the S83-7622 Polemate Base Unit providing a firm work support for both joint, splicer, cleaver and associated tools.
Dimensions: Width 508mm x Depth 408mm x Thickness 2mm.

E

CBT ARM

A specialist 500mm long bracket for use in the installation and controlled de-reeling of CBT Cable Reel Assemblies up to a diameter of 830mm. The CBT Arm System allows the reel to be unreeled in a controlled manor due to the interference fit of the spindle flanges.
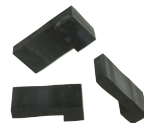
F

GENERAL WORKING TRAY

Easily slipped into the S83-7622 Mills Polemate Base Unit Bracket providing a firm work support for general service and maintenance applications. Dimensions: 508mm x 258mm.

G

RUBBER WEDGE SPACER PK3

Pack of 3 wedge-shaped rubber spacers which can be used to prevent compression marks and avoid damage to vertically routed copper cables. Dimensions: Length 100mm x Width 50mm wide x Thickness 15/30mm.

PART NO.	DESCRIPTION
S83-9327	A) MILLS POLEMATE KIT
S83-7622	B) MILLS POLEMATE BASE UNIT
S83-6958	C) MILLS POLEMATE BASE UNIT WITH SPLICER'S WORKTRAY
S83-7629	D) MILLS POLEMATE / PITMATE SPLICER'S WORK TRAY
S83-7624	E) MILLS POLEMATE / PITMATE CBT ARM
S83-7431	F) MILLS POLEMATE / PITMATE GENERAL WORKING TRAY
S83-7623	G) MILLS POLEMATE RUBBER WEDGE SPACER PK3

A) ANCHOR SCREW STAY NO 1

Used as a ground anchorage when staying poles. Installed by a pole erection unit. Supercedes Rod Stay 2.

B) ANCHOR STAY NO.2

Anchor system for securing a variety of communication equipment including telecom poles, mobile satellites, antennas and masts. Its simplicity and speed of installation make it perfect in a temporary or permanent capacity.

C) INSULATOR STAY 2

Made of Vitreous Porcelain and used for insulating pole stays in the proximity of power lines. Colour: Brown. Size: 114mm long x 75mm wide. Ref: 012501.

D) ANCHOR STAY NO.2 STRESSING JACK

Manual loadlock stressing jack used in the installation of Anchor Stay No.2.

The SJ1 stressing Jack is used to position, tension and stress the anchor stay, once installed using the Installation Drive Rod Set.

E) ANCHOR STAY NO.2 INSTALLATION DRIVE ROD SET

Rod set for the installation of Anchor Stay No.2.

Comprising:
* Drive End - Fits into the Anchor head
* Extension rod
* Coupler
* 32 x 160 shank - To fit into a heavy breaker

Maximum installed depth: 2000mm.
Shank Size: 32 x 160mm Hexagonal.

F) ANCHOR DRIVE ROD REMOVERS

Rod Removers are used to assist with the removal of the S83-1897 Drive Rods after installation of an anchor. The unique shape of the set allows for easy removal in difficult ground conditions where removal by hand may be impossible. These tools can be used by 1 person or 2 people depending on the force required and are a lightweight removal solution. Supplied in pairs.

G) FLEXIBLE STAY WIRE 6.3MM X 100M

Flexible stay wire made of hot dip galvanised steel engineered with 7 strands with a diameter of 2.1mm each.

H) TENSIONER WIRE STAY

A lever-operated tensioning tool used for tensioning stay wires.

I) VERTICAL STAY BRACKET

The Vertical Stay Bracket allows poles to be stayed with a much reduced B:H ratio which in many cases will enable jobs to be completed without the need to employ either stout Poles, or non standard solutions.

Site circumstances sometimes prevent the anchor being installed at the min 1:2 position, but using a vertical stay bracket, an anchor can be provided as little as 600mm from the pole.

J) STAY GUARD WITHOUT PIGTAIL 1.82M

Designed to identify stay wires and cable installations where anchoring devices are exposed to pedestrian and/or vehicular traffic.

Length 1.82m.

PART NO.	DESCRIPTION
S83-2718	A) ANCHOR SCREW STAY NO 1
S83-1896	B) ANCHOR STAY NO.2
S83-2997	C) INSULATOR STAY 2
S83-1899	D) ANCHOR STAY NO.2 STRESSING JACK SJ1
S83-1897	E) ANCHOR STAY NO.2 INSTALLATION DRIVE ROD SET
S83-3814	F) ANCHOR DRIVE ROD REMOVERS
R02-1735	G) FLEXIBLE STAY WIRE 6.3MM X 100M
S83-0805	H) TENSIONER WIRE STAY
S83-1860	I) VERTICAL STAY BRACKET
S83-1875	J) STAY GUARD WITHOUT PIGTAIL 1.82M

LYTE 5B LE5BEQ 3 SECTION ALUMINIUM TELECOMS EXTENSION LADDER 5.96 METRES

BT 5B aluminium 2.5m triple extension ladder featuring comfortable 1.6m wall D rung profie, pole rung support to allow ladder to swivel on its own fixing, double safety catch, fitted with nylon rollers for easy operation and minimum effort. Supplied with lashing rope and ferrule fittings. Closed height 2.5m - extended height 5.96m.

- Certified to BS2037 Class1
- Unique aluminium 'butterfly' rung
- Double safety catch and a lashing rope to ensure safety when in use
- Nylon rollers fitted to the bases and middle sections
- Weight: 18.5kg

PART NO.	DESCRIPTION
S00-1481	LYTE 5B LE5BEQ 3 SECTION ALUMINIUM TELECOMS EXTENSION LADDER 5.96 METRES

LYTE 7A L7EQ 3 SECTION GLASSFIBRE TELECOMS EXTENSION LADDER 6.0 METRES

BT 7A / 7B Extreme heavy duty use GRP triple extension ladder favoured by major utilities companies due to its durability, functionality and reputation. Ideal for telecoms users and any work needed around electrical hazards, power lines, lamp posts and telegraph poles.

- Open Height: 6.00 metres
- Closed: 2.50 metres
- Number of sections: 3
- Rungs per section: 8
- Weight: 23.0 kg
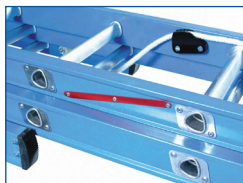
PART NO.	DESCRIPTION
S00-9028	LYTE 7A L7EQ 3 SECTION GLASSFIBRE TELECOMS EXTENSION LADDER 6.0 METRES

Mills EST.1919

MILLS OVERHEAD TOOLS

Mills has developed a comprehensive range of specialist overhead tooling currently in extensive use across the Openreach Network.

All products have been specially designed and approved for such usage. Only a small selection is presented here.

To see our full range please visit our website **millsltd.com** or call our highly trained sales staff on **0208 833 2626**

A) S83-3949 - Mills Belt Pole 1B
Used with Dispenser Dropwire 1 to tie off sash line at the base of a pole.

A 1m x 50mm webbing strap with adjustable securing buckle, the strap adjoins a plate, a sashline cleat, toggle and arrow showing direction of use. Each strap has an individual identity number.

B) S83-2653 - Mills Pole Horse
The Mills Pole Horse is an essential aid for all pole installers, allowing poles of all dimensions to be supported while pole furniture is added or removed prior or post installation. The pole support benefits from flat feet plates and safety support chains and can quickly be folded flat for ease of storage. Ref: 126681.

C) S83-0768 - Mills Twister Pole
Plate type pole twister, used to align poles after installation. Comprising a curved plate 300mm x 175mm with 2 barbs which presses into the wood, This plate is attached via a 6mm wire rope to a levering eye which is wrapped around the pole. A crow bar (Mills S83-3679 or S00-1226 not supplied), is then passed though the levering eye to allow the pole to be twisted into the desired position.

D) S83-0885 - Pole Sock
Safety sock used when transporting poles. Manufacturered from heavy duty reinforced PVC canvas material with alternating red and white 85mm wide warning stripes.

The bag is 110cm long x 60cm wide and will accept poles up to a diameter of 35cm with a webbed seamed top and 5mm draw strip and button toggle to secure it around the pole during transportation.

E) S83-2677 - Pole Jack
A hand operated jack with a rack & panel mechanism. Closed height 3ft operating range 22". For shifting, straightening or recovering poles. Capacity 5000kg

F) S83-8426 - Dispenser Dropwire 2B
A specialist cable stand and dropwire dispenser, manufactured from tubular steel construction with an adjustable tensioning device to prevent overrun of the drum. The drum is held by means of a spring loaded spindle. The unit further benefits from telescopic handle giving a collapsed height 600mm. Ref: 127548 / 126468.
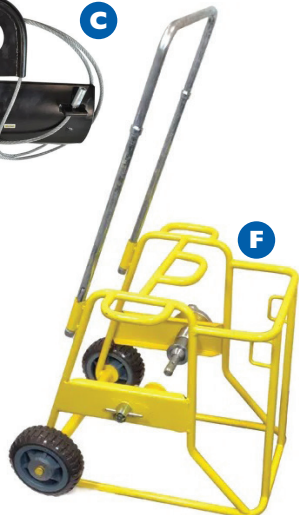
G) S83-2024 - Mills Prop Raising Telescopic 6.2m
The Prop Raising Telescopic is an insulated telescopic rod which can extend to 6.2 metres and is used as a temporary support for aerial drop cables that require maintenance and have drooped below 5.2 metres. Formerly S83-3546.

PART NO.	DESCRIPTION
S83-3949	A) MILLS BELT POLE 1B
S83-2653	B) MILLS POLE HORSE
S83-0768	C) MILLS TWISTER POLE
S83-0885	D) POLE SOCK
S83-2677	E) POLE JACK
S00-8426	F) DISPENSER DROPWIRE 2B
S83-3546	G) MILLS PROP RAISING TELESCOPIC 6.2M

H) S83-0782 - Dispenser Sash Line

Sash line dispenser used with Dispenser Dropwire to aid dispensing of Sash Line. 250mm diameter with PVC handle grip, 5mm sash line feeding eye, six spoke spindle and winding handle. Manufactured from stainless steel for strength and longevity. Weight 1kg.

I) S83-2686 - Pulley Dropwire 6

The Pulley Dropwire No.6 is a one way snatch block type pulley, similar to the S83-2685 but incorporating a clam cleat. Used during the erection and installation of dropwire. Ref: 047036.

J) S83-0925 - Tensioner 2B

Ratchet tensioner tool supplied with certificate for aerial cable erection and recovery.

K) S83-0936 - Rigging Weight 1A

Sash weight 0.8kg for use with Rigging Head 1A (S83-0781) to assist with cabling on hollow poles. The weight is tapered and manufactured from plated steel and supplied with snap key ring hook.

L) S83-0781 - Rigging Head 1A

For installing rigging lines in hollow poles. This device is used for threading cable up the inside of hollow telegraph poles. It is used by screwing the head on to Rod Duct No.2 and pushing it up the inside of the telegraph pole. A weight attached to a length of rope drops down the outside of the pole, leaving the pole threaded by rope. Cable can then be fed through.

M) S83-0879 - Sling Wire Rope 1A

Galvanised steel wire rope lifting sling, with reeving thimbles to each end, 1.5m length x 1500kg SWL, each supplied marked with unique serial numberand SWL, complete with Report of Thorough Examination Certificate.

PART NO.	DESCRIPTION
S83-0782	H) DISPENSER SASH LINE
S83-2686	I) PULLEY DROPWIRE 6
S83-0925	J) TENSIONER 2B
S83-0936	K) RIGGING WEIGHT 1A
S83-0781	L) RIGGING HEAD 1A
S83-0879	M) SLING WIRE ROPE 1A
S83-0723	N) ROD TELESCOPIC 7M

N) S83-0723 - Rod Telescopic 7m

A 7 metre telescopic fibre glass rod to enable installers and other personnel involved with overhead work to gauge the clearance height of dropwire at road crossings.

BT regulations state the minimum installation height of a dropwire must be at least 5.5 metres and further, that poles must not be accessed by ladder should a connecting dropwire be found to be below a height of 5.2 metres.

Storage Length: 116cm. Weight: 700g. Ref: 008874

HARNESSES

Falls from height are one of the biggest causes of workplace fatalities and major injuries. Common causes are falls from ladders and through fragile roofs. The purpose of the Working at Heights Regulations is to prevent death and injury from such a fall. Mills offers an extensive range of harnesses, lanyards, tripods and associated equipment for working at height and also in confined spaces.

For further information and to see the complete range please visit our website **millsltd.com** or call our highly trained sales staff on **0208 833 2626**

A) Complete Belt Safety Kit

The Ridgegear specialist harness kit is designed for the telephone utilities, and comprises:

- Fall Arrest Lanyard (shown as **B**)
- Safety Harness (shown as **C**)
- Work Positioning Belt (shown as **D**)

Kit components are also available separately:

B) Fall Arrest Lanyard

Fall arrest lanyard comprising 50mm web shock absorber and 1.7m of 12m integral kernmantel rope lanyard. Fully tested to BSEN 355.

C) Safety Harness

Multi Purpose Harness for most purposes. Fully tested to BSEN 358 and 361.

D) Work Positioning Belt

Restrain Belt for fixing work position at height. Fully tested to BSEN 3358.

E) Tetra Leaning Ladder & Pole Kit

Complete Leaning Ladder & Pole Kit as used by Openreach Engineers.

Items **B**,**C** and **D** are available individually or as complete kit **A**

RidgeGear

SPECIALIST TRAINING COURSES, INCLUDING:

- Harness Training & Work at Height Awareness (Max 15 delegates)
- MEWP Harness Use & Inspection (Max 15 delegates)
- Working at Height Practical (Max 6 delegates)
- Working at height – Fall Arrest (Max 6 delegates)
- PPE Inspector (Max 15 delegates)

| PART NO.	DESCRIPTION
S83-0887	A) BELT SAFETY 11A COMPLETE KIT (SMALL)
S83-0888	A) BELT SAFETY 11A COMPLETE KIT (MEDIUM)
S83-0889	A) BELT SAFETY 11A COMPLETE KIT (LARGE)
S83-0890	A) BELT SAFETY 11A COMPLETE KIT (EXTRA LARGE)
S50-0657	B) FALL ARREST LANYARD

PART NO.	DESCRIPTION
S83-3185	C) SAFETY HARNESS (SMALL)
S83-4034	C) SAFETY HARNESS (MEDIUM)
S83-4035	C) SAFETY HARNESS (LARGE)
S83-4036	C) SAFETY HARNESS (EXTRA LARGE)
S50-0656	D) WORK POSITIONING BELT
S00-0984	E) TETRA LEANING LADDER & POLE KIT

External Underground

External Underground
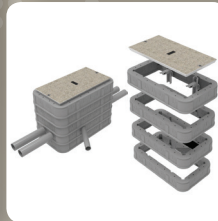
A) MOBRA JUF/2 FOR SMALL BOXES WITH WIDTHS FROM 220MM TO 300MM

No-Drill MOBRA chamber mounting bracket for use with S83-0528 MOBRA Chamber Bracket Pivot Arm Medium.

S83-0529 Ref: 088199.

B) MOBRA JUF/4-6 FOR MEDIUM BOXES WITH WIDTHS FROM 410MM TO 600MM

No-Drill MOBRA chamber mounting bracket for use with S83-0526 MOBRA Chamber Bracket Pivot Arm Long.
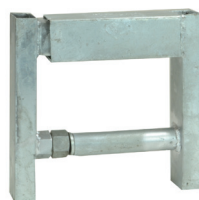
S83-0525 Ref: 066823.

C) MOBRA JUF/10 FOR LARGE BOXES WITH WIDTHS FROM 660MM TO 850MM

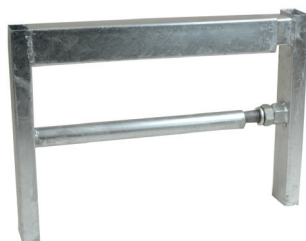No-Drill MOBRA chamber mounting bracket for use with S83-0526 MOBRA Chamber Bracket Pivot Arm Long.

S83-0524 Ref: 066822.

PART NO.	DESCRIPTION
S83-0529	A) MOBRA JUF/2 FOR SMALL BOXES
S83-0525	B) MOBRA JUF/4-6 FOR MEDIUM BOXES
S83-0524	C) MOBRA JUF/10 FOR LARGE BOXES

MOBRA ARMS AND ACCESSORIES

A) MOBRA Arm Short

Standing Height 450mm, Closed Length 630mm. MOBRA Chamber Bracket Pivot Arm Medium for use with S83-0529 MOBRA Small Chamber Bracket JUF/2. Ref: 066827.

B) MOBRA Arm Long

Standing Height 650mm, Closed Length 820mm. MOBRA Chamber Bracket Pivot Arm Long for use with S83-0525 MOBRA JUF/4-6 For Medium Boxes with widths from 410mm to 600mm and S83-0524 MOBRA JUF/10 For Large Boxes with widths from 660mm to 850mm. Ref: 066826.

C) Replacement Square End Cap

For S83-0526 and S83-0528 standard MOBRA arms. Supplied individually.

Size: 41 x 41mm.

D) MOBRA Pair of Mounting Brackets for Plastic Chambers

MOBRA no drill chamber mounting brackets for use with joints and termination boxes within cable chambers. Ref: 668256.

E) No Step Label for Mobra Arms Pk10

A highly visible self-adhesive PSP label designed to be affixed to short and long mobra arms S83-0526 and S83-0528 and to identify the ISP's equipment as well as alerting engineers that the arm is a "no step" area. Label size 250 x 30mm.

Supplied in packs of 10.

A minimum order is required, please contact our sales department for further information.

PART NO.	DESCRIPTION
S83-0528	A) MOBRA ARM SHORT
S83-0526	B) MOBRA ARM LONG
S83-1935	C) REPLACEMENT END CAP FOR STANDARD MOBRA ARMS
S83-0527	D) MOUNTING BRACKETS FOR PLASTIC CHAMBERS
S00-1996	E) NO STEP LABEL FOR MOBRA ARMS PK10

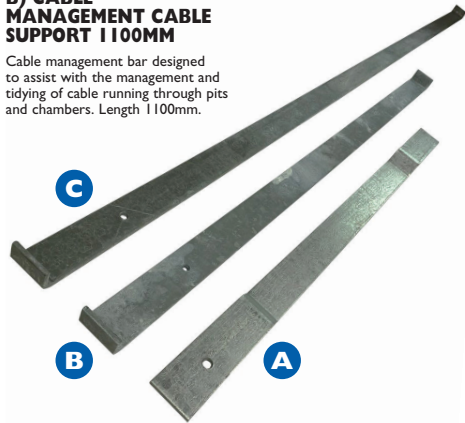## A) CABLE MANAGEMENT CABLE SUPPORT 838MM

Cable management bar designed to assist with the management and tidying of cable running through pits and chambers. Length 838mm.

B) CABLE MANAGEMENT CABLE SUPPORT 1100MM

Cable management bar designed to assist with the management and tidying of cable running through pits and chambers. Length 1100mm.

C) CABLE MANAGEMENT CABLE SUPPORT 1980MM

Cable management bar designed to assist with the management and tidying of cable running through pits and chambers. Length 1980mm.

PART NO.	DESCRIPTION
S83-1488	A) CABLE MANAGEMENT BAR. LENGTH 838MM
S83-1489	B) CABLE MANAGEMENT BAR. LENGTH 1000MM
S83-1490	C) CABLE MANAGEMENT BAR. LENGTH 1980MM

JOINT SUPPORT KIT 1A

2 x 2.42m lengths of 33.55mm subduct to be used in access chambers to suspend closures and other equipment within the chamber. Ref: 017807.

- Product Diameter: 33.55mm
- Product Weight: 1.4g/m
- Metal Free: Yes
- Minimum Bend Radius: 11D
- Maximum Tensile Load: 2250N
- Product Specification: LN166

PART NO.	DESCRIPTION
S00-3512	JOINT SUPPORT KIT 1A PKT 2

MILLS CBT BACK-TO-BACK MOBRA BRACKET

Mills CBT back-to-back Mobra Bracket is similar to the existing CBT Pole Bracket, but designed to be bolted to a Mobra arm (S83-0526 or S83-0528).

Suitable for 4, 8 and 12 Way Corning and Commscope CBTs (Connector Block Terminals).

Manufactured from 1.2mm galvanised steel, the bracket is approved for PIA application and fixes to a Mobra Arm.

The bracket has 4 x 3mm, 8 x 4mm and 4 x 6mm nutserts to accept different manufacturers' CBT's.

The back-to-back bracket is supplied with 4 x M3 x 25 Pozi Panhead Screws, 8 x M4 x 30 Pozi Panhead Screws and 4 x M6 x 30 Pozi Panhead Screws.

Each face measures 380 x 140 mm and the bracket 'stands off' 165mm.
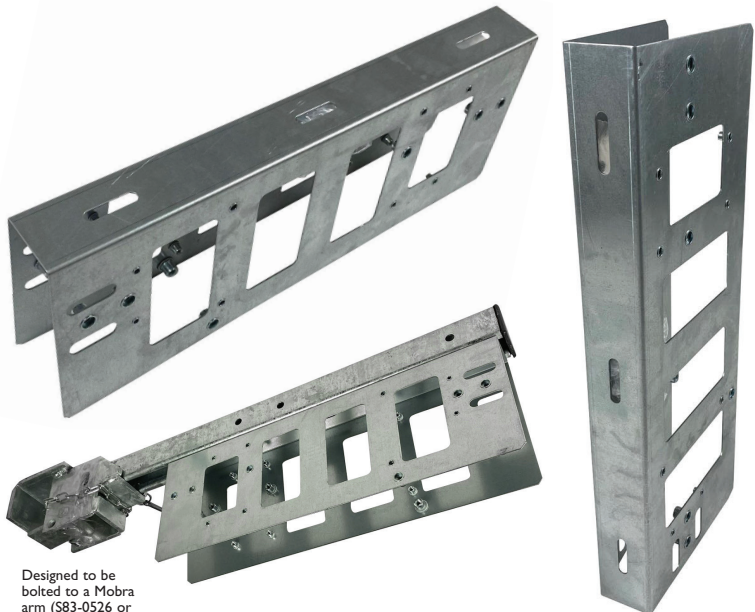
Designed to be bolted to a Mobra arm (S83-0526 or S83-0528). See P62.

PART NO.	DESCRIPTION
S00-3511	MILLS CBT BACK-TO-BACK MOBRA BRACKET

CABLE BEARER WALL TYPE

For supporting cables in manholes and joint boxes. The type numbers indicate the number of brackets which the bearings will carry.

S83-3203 Ref: 070281.
S83-1058 Ref: 070282.
S83-3204 Ref: 070283.
S83-3205 Ref: 070284.
S83-3206 Ref: 070285.
S83-3207 Ref: 070286.
S83-3208 Ref: 070287.

PART NO.	DESCRIPTION
S83-3203	CABLE BEARER WALL TYPE 1 - 178MM
S83-1058	CABLE BEARER WALL TYPE 2 - 278MM
S83-3204	CABLE BEARER WALL TYPE 3 - 508MM
S83-3205	CABLE BEARER WALL TYPE 5 - 813MM
S83-3206	CABLE BEARER WALL TYPE 8 - 1270MM
S83-3207	CABLE BEARER WALL TYPE 10 - 1575MM
S83-3208	CABLE BEARER WALL TYPE 12 - 1880MM

BRACKET CABLE BEARER

Used with Cable Bearer Wall Type and Pins Locking. The type numbers indicate the effective length in inches.

S83-3209 Ref: 070210.
S83-3210 Ref: 070211.
S83-3211 Ref: 070212.
S83-3212 Ref: 070213.
S83-3213 Ref: 070214.
S83-3214 Ref: 070215.

PART NO.	DESCRIPTION
S83-3209	BRACKET CABLE BEARER TYPE 3 - 115MM
S83-3210	BRACKET CABLE BEARER TYPE 5 - 170MM
S83-3211	BRACKET CABLE BEARER TYPE 8 - 250MM
S83-3212	BRACKET CABLE BEARER TYPE 12 - 343MM
S83-3213	BRACKET CABLE BEARER TYPE 18 - 495MM
S83-3214	BRACKET CABLE BEARER TYPE 24 - 648MM

STEP MANHOLE NO.1

For use in reinforced concrete or brickwork manholes.

PART NO.	DESCRIPTION
S83-3216	STEP MANHOLE NO.1

STEP MANHOLE NO.2

Bolt-on step to replace broken or missing steps in manholes.

Bolt required: Bolt Expansion 1A.

PART NO.	DESCRIPTION
S83-3217	STEP MANHOLE NO.2

BOLT FOUNDATION INDENTED NO.1

Iron foundation bolt for Cabinets Cross Connection.

PART NO.	DESCRIPTION
S83-3218	BOLT FOUNDATION INDENTED NO.1

BOLT FOUNDATION INDENTED NO.2

For fixing cable bearers in new concrete and brickwork.

PART NO.	DESCRIPTION
S83-3219	BOLT FOUNDATION INDENTED NO.2

PIN LOCKING CABLE BEARER

For fixing Brackets Cable Bearer to Cable Bearer Wall Type.

Ref: 070858.

PART NO.	DESCRIPTION
S83-3215	PIN LOCKING CABLE BEARER

IRON ANCHOR 4

For setting in concrete walls of joint chambers to mount cable guides.

Ref: 070724.

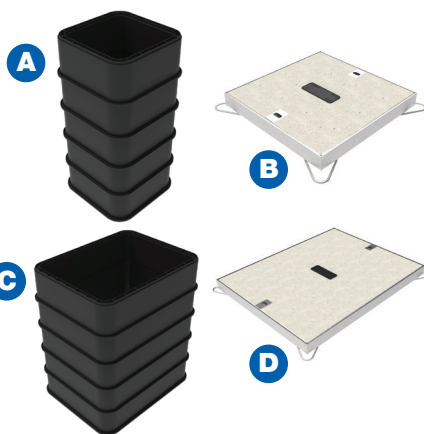| PART NO.	DESCRIPTION
S83-3220	IRON ANCHOR 4

STAKKABOX™ MODULA

STAKKAbox™ Modula are recycled polypropylene modular and structural preformed access chambers suitable for use in carriageway and footway environments rated to D400 under EN124. A thin wall design with vertical and horizontal ribs, results in a product that is strong vertically and on the side wall. Complete installations typically take up to one hour.

Available in two sizes:

- 300 x 300 x 600mm internal dimensions.
- 600 x 450 x 600mm internal dimensions (FW2 / EN2 Footway 2).

Frame & Concrete Covers B125 Loading Class are available including options for locking.

PART NO.	DESCRIPTION
S83-4484	A) STAKKABOX MODULA CHAMBER 300 X 300MM CLEAR OPENING 600MM DEEP
S83-4485	B) FRAME & CONCRETE COVER 300 X 300MM TO SUIT (S83-4484)
S83-4502	C) STAKKABOX MODULA CHAMBER 600 X 450MM CLEAR OPENING 600MM DEEP
S83-4503	D) FRAME & CONCRETE COVER 300 X 300MM TO SUIT (S83-4502)

CUBIS SYSTEMS
A **CRH** COMPANY

A-B) FTTH FOOTPATH DEMARCATION / TOBY BOXES

Located at the boundary to the customer during FTTx installations, the Toby Box is used as a demarcation point for FTTx 'Homes Passed' where the customer does not require an immediate FTTx connection or can be used as a future 'Maintenance point' similar to an access chamber. For housing Microducts and Splice enclosures.

A) Featuring a hinged lid, enabling access at any time.
Overall Dimensions: 214mm x 100mm x 301mm (LxWxD)
Material: 100% Recyclable Polypropylene
Loading Specification: BS5834 Pt2

B) Can be broken into four components, allowing microducts to be removed or installed without disconnection.
Overall dimensions: 256mm x 128mm x 255mm (LxWxD)
High load bearing strength (5.5kN)

C) STAKKABOX TOBY JOINT BOX

The STAKKAbox™ Toby provides an access chamber with a clear opening of 150mm x 150mm. The single ring section is 300mm deep. A 600mm option can also be supplied on request.

Features: Twinwall and internal ribbing for improved loading performance
Material: Talc-filled recycled Polypropylene

PART NO.	DESCRIPTION
71735	A) FTTH FOOTPATH DEMARCATION / TOBY BOX
S83-5015	B) FTTH FOOTPATH DEMARCATION / TOBY BOX
S83-5085	C) STAKKABOX TOBY JOINT BOX

A-C) STAKKABOX JMF CHAMBER SECTION

STAKKAbox™ JMF is a range of modular and structural preformed access chambers that provide a modern alternative to traditionally brick built chambers.

This system provides contractors with a means of constructing access chambers safely, quickly and inexpensively, whilst offering superior build quality, reduced defects and enhanced site safety performance over traditional methods.

STAKKAbox™ JMF is designed for use within the telecommunications market and is available in 102, 104 and 106 sizes.

Due to its twin wall design, individual sections are lightweight meaning they can be manually lifted and stacked on top of each other to reach the specified depth required.

The STAKKAbox™ JMF chamber system also comes with a wide range of X-TRAS™ chamber accessories and AX-S™ access covers to provide a complete network access system.

Using the JMF system, complete chambers can be constructed from excavation to reinstatement in less than one hour.

Available in 3 sizes, all 150mm deep:
• 102 Chamber Section 725 x 255mm Clear Opening
• 104 Chamber Section 915 x 445mm Clear Opening
• 106 Chamber Section 1310 x 610mm Clear Opening

D) Frame & Concrete Covers, B125 Loading Class

AX-S™ Concrete Infill access covers offer flexibility in size and design with options for locking. Please see call sales and see datasheet for further details

For volume sales company logos can be added. Due to the weight of this product additional carriage charges may apply. **Available in 3 sizes:**

• 725 x 255 mm
• 915 x 445 mm
• 1310 x 610 mm

E) Cable Management Kits

Cable management furniture kit for STAKKAbox JMF102 , STAKKAbox JMF104, Quad and Fortress chambers comprising:

• 2x Drop in Wall Bearers
• 2 x Cable Bearers
• 2 x Locking Pins

F) STAKKAbox Galvanised Drop in Step for JMF Chambers

Mounts to chamber wall to provide stepped access. Manufactured in galvanised steel with no bolts or back plate required. For use with the following STAKKAbox chambers:

• S83-4531 STAKKAbox JMF 104 Chamber Section 915 x 445mm Clear Opening - 150mm Deep
• S83-4532 STAKKAbox JMF 106 Chamber Section 1310 x 610mm Clear Opening - 150mm Deep
• Legacy STAKKAbox chambers.

G) MOBRA Mounting Brackets for STAKKAbox JMF Chambers (Pair)

3 SIZES AVAILABLE

CUBIS SYSTEMS — A **CRH** COMPANY

3 SIZES AVAILABLE

Please see website for further details

PART NO.	DESCRIPTION
S83-4530	A) STAKKABOX JMF 102 CHAMBER SECTION 725 X 255MM CLEAR OPENING - 150MM DEEP
S83-4531	B) STAKKABOX JMF 104 CHAMBER SECTION 915 X 445MM CLEAR OPENING - 150MM DEEP
S83-4532	C) STAKKABOX JMF 106 CHAMBER SECTION 1310 X 610MM CLEAR OPENING - 150MM DEEP
S83-4533	D) FRAME & CONCRETE COVER, 725 X 255 MM B125 LOADING CLASS
S83-0681	D) FRAME & CONCRETE COVER, 915 X 445 MM B125 LOADING CLASS
S83-0682	D) FRAME & CONCRETE COVER, 1310 X 610 MM B125 LOADING CLASS
S83-4534	E) CABLE MANAGEMENT KIT FOR STAKKABOX JMF102 CHAMBERS
S83-0683	E) CABLE MANAGEMENT KIT FOR STAKKABOX JMF 104 & FORTRESS CHAMBERS
S83-4535	E) CABLE MANAGEMENT KIT FOR STAKKABOX JMF106 CHAMBERS
S83-0684	F) STAKKABOX GALVANISED DROP IN STEP FOR JMF CHAMBERS
S83-0527	G) MOBRA MOUNTING BRACKETS FOR STAKKABOX JMF CHAMBERS (PAIR)

A) STAKKABOX FORTRESS CHAMBER SECTION 915 X 445MM CLEAR OPENING 150MM DEEP

STAKKAbox™ Fortress is a range of modular and structural preformed access chambers, suitable for use in carriageway and footway environments.

The Fortress system is moulded in HDPE and possesses excellent strength to weight properties.

Features

STAKKAbox™ chambers are significantly faster to install than conventional alternatives, with complete installations typically taking up to one hour. This results in reduced costs for the installer. No specialist equipment or plant is required in order to install the chamber and there is no need for specialist box builders.

Chambers are built to required depth by adding 150mm sections. Due to the twinwall design, individual sections are light meaning they can be manually lifted. Each access chamber possesses vertical and horizontal ribs, resulting in a product that is strong vertically and on the sidewall. Most installations do not require specialist backfills, reducing installation costs.

Chambers can be adapted to suit on-site conditions with standard tools to overbuild over existing networks, Introduce duct entries for cable entry and for top-section fine adjustment.

Fortress can be supplied in 'flat pack' format to make shipping more efficient as well as allowing flexibility in delivery and installation.

Built by stacking sections to required depth, each part weighs just 8.1kg, making it suitable for a single person to lift under manual handling guidelines.

FW4 / EN4 Footway 4 internal dimensions: 915 x 445 x 150mm.

A frame and concrete cover is available for the Stakkabox Fortress, (S83-0681) as well as a cable management furniture kit (S83-0683) and galvanised drop in step (S83-0684).

B) FW4 FDN Closure Mobra Arm

Cubis' universal FDN closure support arm has been designed and developed to provide a 'Mobra Arm' solution that can fit the Prysmian UMJ/CMJ/MMJ / Prysmian LMJ and HellermannTyton 59 Port closures (Fibre Distribution Nodes) within the S83-4506 Cubis Fortress STAKKAbox™ FW4 access chamber.

Note: When ordering, please specify requirement from the closure options listed below.

1.   For Prysmian UMJ/CMJ/MMJ closures
2.   For Prysmian LMJ closure
3.   For HellermannTyton 59 Port closure

C) Frame & Concrete Cover

AX-S™ Concrete Infill access covers offer flexibility in size and design with options for locking. For use with STAKKAbox Ultima Section 2320 x 740mm.
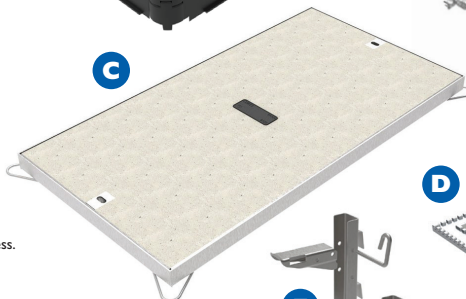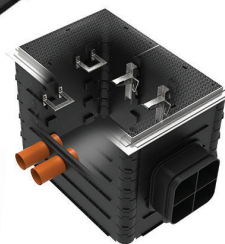
D) Bolt on Step for Fortress & Ultima Chambers

Bolt on step for S83-4506 Fortress and S83-4508 Ultima plastic chambers that mounts to the chamber wall (using bolts and backing plate supplied) to provide stepped access.

E) Cable Management Kit

Cable management furniture kit for STAKKAbox JMF102, STAKKAbox JMF104, Quad and Fortress chambers comprising:

*   2 x Drop in Wall Bearers
*   2 x Cable Bearers
*   and 2 x Locking Pins

PART NO.	DESCRIPTION
S83-4506	A) STAKKABOX FORTRESS CHAMBER SECTION 915 X 445MM CLEAR OPENING 150MM DEEP
FW4-MOBRA-ARM	B) FW4 FDN CLOSURE MOBRA ARM
S83-0681	C) FRAME & CONCRETE COVER, 915 X 445 MM B125 LOADING CLASS
S83-4642	D) BOLT ON STEP FOR FORTRESS & ULTIMA CHAMBERS
S83-0683	E) CABLE MANAGEMENT KIT FOR STAKKABOX JMF 104 & FORTRESS CHAMBERS

A) STAKKABOX ULTIMA CHAMBER SECTION 2320 X 740MM CLEAR OPENING 150MM DEEP

STAKKAbox™ ULTIMA offers a flexible access chamber system with no compromise on strength. Due to the design and the material used (GRP), ULTIMA should be used anywhere where sidewall loading is a concern, such as alongside highways or railway tracks.

STAKKAbox™ chambers are significantly faster to install than conventional alternatives, with complete installations typically taking less than one hour. The STAKKAbox™ is manufactured in nitrogen-foamed High Density Polyethylene (HDPE), of which up to 70% is recycled material. HDPE possesses excellent strength-to-weight properties.

Chambers are built to required depth by adding 150mm sections. Due to the twinwall design, individual sections are light meaning they can be manually lifted. Each access chamber possesses vertical and horizontal ribs, resulting in a product that is strong vertically and on the sidewall. For most applications, ULTIMA doesn't require specialist backfills, reducing installation costs.

Fire Retardancy: ULTIMA won't catch fire and has low smoke properties. This means the product can be used in enclosed areas such as tunnels and underground transport.

Due to the sectional twinwall design and the GRP material, most ULTIMA 150mm deep sections fall under 25kg in weight, making it suitable for a single person to lift under manual handling regulations.

FW10 / EN10 Footway 10 internal dimensions 2320 x 740 x 150mm
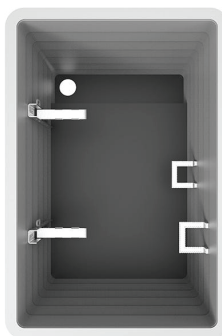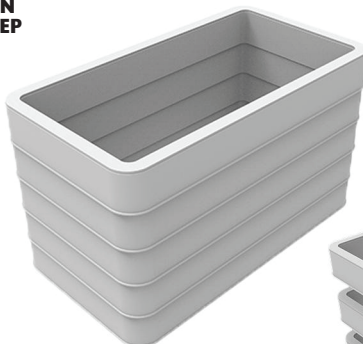
B) FW10 FDN Closure Mobra Arm

Cubis' universal FDN closure support arm has been designed and developed to provide a 'Mobra Arm' solution that can fit the Prysmian UMJ/CMJ/ MMJ / Prysmian LMJ and HellermannTyton 59 Port closures (Fibre Distribution Nodes) within the S83-4508 Cubis STAKKAbox™ Ultima FW10 access chamber.

Note: When ordering, please specify requirement from the closure options listed below.

1. For Prysmian UMJ/CMJ/MMJ closures
2. For Prysmian LMJ closure
3. For HellermannTyton 59 Port closure

C) Frame & Concrete Cover

AX-S™ Concrete Infill access covers offer flexibility in size and design with options for locking. For use with STAKKAbox Ultima Section 2320 x 740mm.

D) Bolt-on Step for Fortress & Ultima Chambers

Bolt-on step for S83-4506 Fortress and S83-4508 Ultima plastic chambers that mounts to the chamber wall (using bolts and backing plate supplied) to provide stepped access.
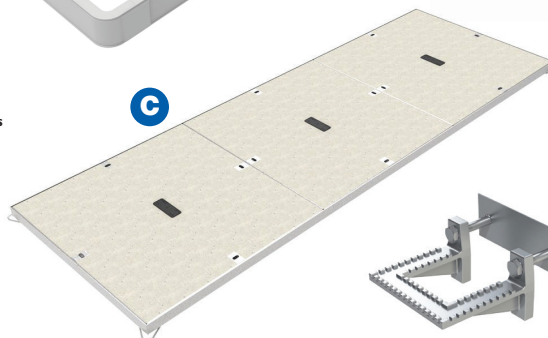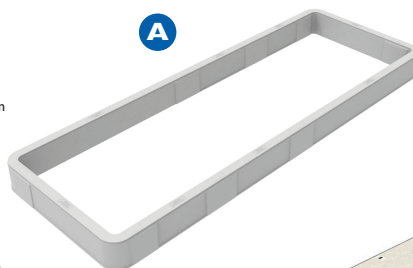
PART NO.	DESCRIPTION
S83-4508	A) STAKKABOX ULTIMA CHAMBER SECTION 2320 X 740MM CLEAR OPENING 150MM DEEP
FW10-MOBRA-ARM	B) FW10 FDN CLOSURE MOBRA ARM
S83-4509	C) FRAME & CONCRETE COVER 2320 X 740MM B125 LOADING CLASS
S83-4642	D) BOLT-ON STEP FOR FORTRESS & ULTIMA CHAMBERS

JOINT BOXES NO23 & NO26

Prefabricated glass reinforced polyester joint boxes. These underground jointing enclosures offer significant advantages over the more traditional methods of forming a jointing enclosure.

Lightweight yet immensely strong and rigid having no seams or welds, they are totally rot proof and will not support microbiological growth.

Typical uses include:- Telephone connection systems, connection of lighting standards to mains, traffic light connections, underground water metre housing, cable television connections, loop connections and cable communications.

- Joint box chambers moulded from first quality glass fibre reinforced polyester moulding compounds.
- Manufactured under a system of rigidly applied quality control to ensure optimum, fully cured mouldings.
- Made to ensure trouble free installations.
- Available for installation in driveways, paths etc.
- Joint boxes cover sold separately.
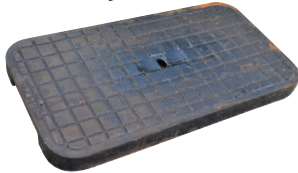
A

A) JOINT BOX No23
Internal dimensions:
200 x 450 x 450mm deep.

B

B) COVER JOINT BOX 23

Cast iron cover for Joint Box 23.

C

C) JOINT BOX NO26
Internal dimensions:
720 x 250 x 570mm deep.

D

D) FRAME & COVER FOOTWAY NO.2

Steel with infilled concrete cover for joint box 26.

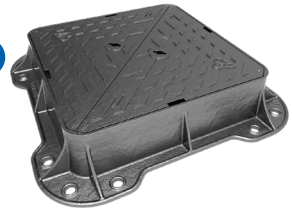| PART NO.	DESCRIPTION
S83-2795	A) JOINT BOX 23
S83-2796	B) COVER JOINT BOX 23
S83-2797	C) JOINT BOX 26
S83-3695	D) FRAME & COVER FOOTWAY NO.2

FRAME & COVER CARRIAGEWAYS

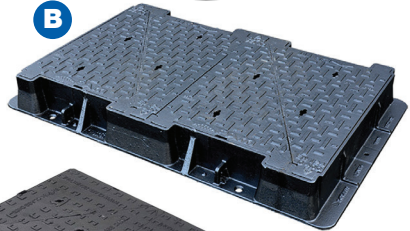These are a special order item. Please contact sales for a quote.

Frame and Cover Carriageway ductile iron manhole covers and frames. Manufactured to relevant BS standard.

A) Frame & Cover Carriageway 1: 600 x 600mm clear opening.
B) Frame & Cover Carriageway 2: 1200 x 675mm clear opening.
C) Frame & Cover Carriageway 3: 1800 x 675mm clear opening.

A

B

C

PART NO.	DESCRIPTION
S83-2778	A) FRAME & COVER CARRIAGEWAY 1
S83-2779	B) FRAME & COVER CARRIAGEWAY 2
S83-2780	C) FRAME & COVER CARRIAGEWAY 3

GRATING SUMP 2A

Grating Sump 2A. Used in Manholes and joint boxes, this is a 250 x 250mm PVC drainage sump.

Ref: 094956.

PART NO.	DESCRIPTION
S83-2781	GRATING SUMP 2A

ULTRACRETE PRODUCTS

**A) UltraCrete Perma-Soil Stabiliser
- 54x 25Kg Bags**
**B) UltraCrete Perma-Soil Stabiliser
- 30x 25Kg Buckets**

UltraCrete Perma-Soil turns excavated spoil into backfill within minutes, saving both time and money on-site. Ideal for use with small utility excavations, backfilling poles, water metres and tobies, Perma-Soil meets the requirements set out in the Utility WRAP Agreement.

Supplied in 25kg bags and tubs.

**C) UltraCrete Instant Road Repair
6mm Grade - 56x 25kg Bags**
**D) UltraCrete Instant Road Repair
6mm Grade - 52x 25kg Tubs**

UltraCrete Instant Road Repair® 6mm grade is designed for permanent asphalt repairs in footways, footpaths and cycle tracks. It gained HAPAS Approval in 2002 and is instantly trafficable causing minimal disruption to pedestrians.

**E) UltraCrete Instant Road Repair
10mm Grade - 56x 25kg Bags**
**F) UltraCrete Instant Road Repair
10mm Grade - 52x 25kg Tubs**

UltraCrete Instant Road Repair® 10mm grade is designed for permanent repairs in type 3 and 4 roads. HAPAS approved since 2002, Instant Road Repair offers a first-time permanent repair and is instantly trafficable causing minimal disruption to motorists.

**G) UltraCrete Instaband ECO Thermoplastic Overbanding Tape
- Box of 12**

Instaband ECO® has been designed for the application to asphalt roads to prevent water ingress and progressive fretting. It has been HAPAS Approved since 2012 and prevents water ingress immediately, prolonging the life of your repair.

**H) UltraCrete SCJ Seal and Tack Coat Spray
750ml - Box of 12**

SCJ is a cold joint sealer that is applied onto vertical edges and surface base before the application of asphalt. HAPAS approved since 2005, SCJ prevents water ingress which improves bond and prolongs the life of your repair.

**I) Ultracrete QC6 Surface Reinstatement Concrete Pre-mix
- 56x 25kg Bags**
**J) S00-3540 Ultracrete QC6 Surface Reinstatement Concrete Pre-mix
- 40x 25kg Buckets**

QC6 is a non-shrink concrete designed for the surface reinstatement of 'picture frames' or areas around access covers and surface areas around street furniture. This shrinkage compensated reinstatement concrete has an excellent workability and sets in just 15 minutes thus difficult to deface, improving public image and limiting asset liability.

Please see website for further details

PART NO.	DESCRIPTION
S00-4015	A) ULTRACRETE PERMA-SOIL STABILISER - 54X 25KG BAGS
S00-4030	B) ULTRACRETE PERMA-SOIL STABILISER - 30X 25KG BUCKETS
S00-4012	C) ULTRACRETE INSTANT ROAD REPAIR 6MM GRADE - 56X 25KG BAGS
S00-4031	D) ULTRACRETE INSTANT ROAD REPAIR 6MM GRADE - 52X 25KG TUBS
S00-4032	E) ULTRACRETE INSTANT ROAD REPAIR 10MM GRADE - 56X 25KG BAGS
S00-4033	F) ULTRACRETE INSTANT ROAD REPAIR 10MM GRADE - 52X 25KG TUBS
S00-4014	G) ULTRACRETE INSTABAND ECO THERMOPLASTIC OVERBANDING TAPE - BOX OF 12
S00-4107	H) ULTRACRETE SCJ SEAL AND TACK COAT SPRAY 750ML - BOX OF 12
S00-4034	I) ULTRACRETE QC6 SURFACE REINSTATEMENT CONCRETE PRE-MIX - 56X 25KG BAGS
S00-3540	J) ULTRACRETE QC6 SURFACE REINSTATEMENT CONCRETE PRE-MIX - 40X 25KG BUCKETS

ULTRACRETE PRODUCTS

A) UltraCrete PY4 Summer Grade CD534 Polyester Resin System - 30x 25kg Buckets
A) UltraCrete PY4 Winter Grade CD534 Polyester Resin System - 30x 25kg Buckets
PY4 produces a stiff supporting mortar and is effective for the rapid installation and reinstatement of manhole covers and frames in heavily trafficked areas. It is highly recommended for ductile ironwork and has been HAPAS approved since 2005. PY4 conforms to HA104/09, has a rapid strength gain and can be opened to traffic in 40 minutes.

B) UltraCrete Envirobed CD534 High Performance Mortar x 48 18kg Bags
C) UltraCrete Envirobed CD534 High Performance Mortar - 40x 18kg Buckets
The environmentally friendly alternative to resin-based materials, specifically formulated for the bedding of all access covers. Envirobed® CD534 (formerly HA104) has been HAPAS Approved since 2005 and conforms to CD534. Its superior compressive, tensile and flexural strengths make it ideal for use in heavily trafficked / wheel track locations. It can be open to traffic after just 1 hour.

D) UltraCrete CD534 Flowable High Performance Mortar x 48 18kg Bags
Specifically formulated for utility reinstatements. Envirobed® CD534 Flowable (formerly HA104) provides all the performance of Envirobed® CD534 but is significantly easier to apply. It conforms to CD534 and is also BT LN550 and LN320 compliant. It offers superior compressive, tensile and flexural strengths in 3 hours and can be opened to traffic in 1 hour.

E) UltraCrete M60 Rapid Strength Bedding Mortar - 56x 25kg Bags
F) UltraCrete M60 Rapid Strength Bedding Mortar - 40x 25kg Buckets
M60 is the market leading rapid strength mortar, for use with all access covers, as well as for the bonding of granite setts, flags and bedding kerbs. HAPAS approved since 2005, M60 also conforms to HD27/15, has a rapid strength gain and can be opened to traffic in 1 hour.

G) UltraCrete QC10 F Rapid Set Flowable Concrete - 56x 25kg Bags
QC10 F is a rapid setting, fibre modified concrete for backfilling around manhole frames and gullies and can also be used for surface repairs.
It has been HAPAS approved since 2005 and can be opened to traffic in 90 minutes.

H) UltraCrete Envirobed CD534 RED High Performance Mortar x 48 Buckets
Envirobed® CD534 Red, (part of UltraCrete's HAPAS Approved Ironwork Reinstatement System), is pigmented red as a prescriptive solution for specific contracts and frame works to easily identify the composition of work carried out. It is supplied as a two-component system, which contains a blend of special cements, polymer and aggregates and recycled glass. The combined components provide a high strength mortar, which can accommodate depths of 10-50mm in one pass. If necessary, greater depths can be achieved by using the layer-upon-layer method.

I) UltraCrete Envirobed CD534 RED Flowable High Performance Mortar x 48 Bags
UltraCrete Envirobed®CD534 Flowable Red is pigmented red as a prescriptive solution for specific contracts and frame works to easily identify the composition of work carried out. It combines as a bedding mortar and backfill and is ideal for installing access covers and frames.

J) UltraCrete Mortar Buoy - Access Frame Installation
The inflatable device that acts as a dam allowing a flowable mortar installation within seconds. The Mortar Buoy® inflatable dam prevents any mortar seeping into the access chamber providing a seamless finish to the chamber. This allows a single pour installation of Envirobed® CD534 Flowable/ Envirobed® CD534 Flowable Red, which encapsulates the flange of the access frame creating a solid bed and backfill in one.

PART NO.	DESCRIPTION
S00-4035	A) ULTRACRETE PY4 SUMMER GRADE CD534 POLYESTER RESIN SYSTEM - 30X 25KG BUCKETS
S00-4048	A) ULTRACRETE PY4 WINTER GRADE CD534 POLYESTER RESIN SYSTEM - 30X 25KG BUCKETS
S00-4036	B) ULTRACRETE ENVIROBED CD534 HIGH PERFORMANCE MORTAR X 48 18KG BAGS
S00-4047	C) ULTRACRETE ENVIROBED CD534 HIGH PERFORMANCE MORTAR - 40X 18KG BUCKETS
S00-4037	D) ULTRACRETE ENVIROBED CD534 FLOWABLE HIGH PERFORMANCE MORTAR X 48 18KG BAGS
S00-4038	E) ULTRACRETE M60 RAPID STRENGTH BEDDING MORTAR - 56X 25KG BAGS
S00-4039	F) ULTRACRETE M60 RAPID STRENGTH BEDDING MORTAR - 40X 25KG BUCKETS
S00-4040	G) ULTRACRETE QC10 F RAPID SET FLOWABLE CONCRETE - 56X 25KG BAGS
S00-4045	H) ULTRACRETE ENVIROBED CD534 RED HIGH PERFORMANCE MORTAR X 48 BUCKETS
S00-4046	I) ULTRACRETE ENVIROBED CD534 RED FLOWABLE HIGH PERFORMANCE MORTAR X 48 BAGS
S00-4041	J) ULTRACRETE MORTAR BUOY - ACCESS FRAME INSTALLATION AID - GULLEY 450 X 450MM
S00-4042	J) ULTRACRETE MORTAR BUOY - ACCESS FRAME INSTALLATION AID - CW1 600 X 600MM
S00-4043	J) ULTRACRETE MORTAR BUOY - ACCESS FRAME INSTALLATION AID - CW2 1250 X 700MM
S00-4044	J) ULTRACRETE MORTAR BUOY - ACCESS FRAME INSTALLATION AID - CW3 1850 X 700MM

SAN-EARTH CONDUCTIVE CONCRETE AND EARTHING ELECTRODE PACKS

SAN-EARTH is a cementitious and carbonaceous material which provides an environmentally safe long term solution to many grounding problems. SAN-EARTH grounding electrodes are easily installed by spreading the dry powder in a strip over and around a conductor in a horizontal trench.

When the trench is refilled SAN-EARTH absorbs moisture from the surrounding soil and hardens to become part of the grounding electrode.

Supplied on a pallet of 36 bags and 9 electrodes, suitable for the installation of 9 cabinets.

Four bags and one electrode is the required pack for earthing a new install cabinet.

PART NO.	DESCRIPTION
S83-4510	SAN-EARTH CONDUCTIVE CONCRETE AND EARTHING ELECTRODE PACKS (36 PACKS)

CABINET BASE SEALANT - 2.5 LITRES

Two part sealant used to seal the base & ducts in street cabinets. For use in LV distribution cabinets, public lighting cabinets, cabinets for traffic control, and outdoor transformer station installations.

- Easy to use and accurate filling process when pouring the resin
- Seals the cable ducts against water & gas pressures
- Prevents ingress of moisture, pests and the instrusion of weeds, roots and plants
- Re-enterable, so new cables can be added

PART NO.	DESCRIPTION
S83-3122	CABINET BASE SEALANT - 2.5 LITRES

A) PRYSMIAN SJC SMALL JOINT CLOSURE WITH 4 CABLE ENTRIES FOR CABLE 5-9MM (MAXIMUM CAPACITY 24 FIBRES)

The SJC Closure is a splice closure that is used for track or branch applications. It has 4 cable entry ports, a splice cassette for 24 splices and a cable management and storage area. The closure is sealed to IP68 for water and dust tightness. The closure is supplied with four knock-out ports and two entry glands. Up to two additional entry glands can be ordered separately.

Prysmian Group

B) CABLE ENTRY KITS FOR SJC ENCLOSURES

The cable entry kit is used to install an additional cable into the joint. It contains a cable gland, a cable tie and foam tape. For cables between 6-12mm.

PART NO.	DESCRIPTION
XJTSC02335	A) SJC SMALL JOINT CLOSURE 24 SPLICES FOR CABLE 5-9MM
XJTSC02470	A) SJC SMALL JOINT CLOSURE 24 SPLICES FOR CABLE 6-12MM
XJTSC02336	B) SJC CABLE ENTRY KIT 5-9MM
XJTSC02471	B) SJC CABLE ENTRY KIT 6-12MM
XJTSC02542	B) SJC CABLE ENTRY KIT 4-6MM (2 ENTRIES)

**PRYSMIAN UMJ ULTRA COMPACT MULTI-FUNCTION JOINT
(MAXIMUM CAPACITY OF 72 FIBRES)**

Prysmian
Group

The Ultra Compact Multi Function Joint (UMJ) is ideal for use as a Cable Chamber Joint, Track Joint, Spur Joint or Distribution Joint due to its capacity and compact size. It has a maximum capacity of 72 fibres, the splice trays are factory fitted and each tray can accommodate up to 12 spliced fibres. A multi-functional bracket can be supplied with the joint which enables wall or pole mounting of the joint vertically or horizontally. The joint has four circular ports for mechanical entry glands, one oval port for heat shrink or mechanical entry and two additional small circular ports also for heat shrink entry.

The UMJ is supplied with 6 single element trays each able to accommodate 12 splices providing a maximum capacity of 72 fibres, or 6 single circuit splice trays. Each single circuit splice tray has two storage sections providing a total of 12 trays per joint with each tray accommodating up to 4 splices providing a total capacity of 48 fibres. The UMJ can be supplied with a pressure test valve for flash testing and earthing.

A full range of single Entry Gland Kit, Multi Way Entry Gland Kits, Oval Port Entry Kit, Silicone Grease, Emergency Port Cable Entry, Optical Splitters, Splice Protectors, Mounting Bracket / Support Tool are shown on page 85.
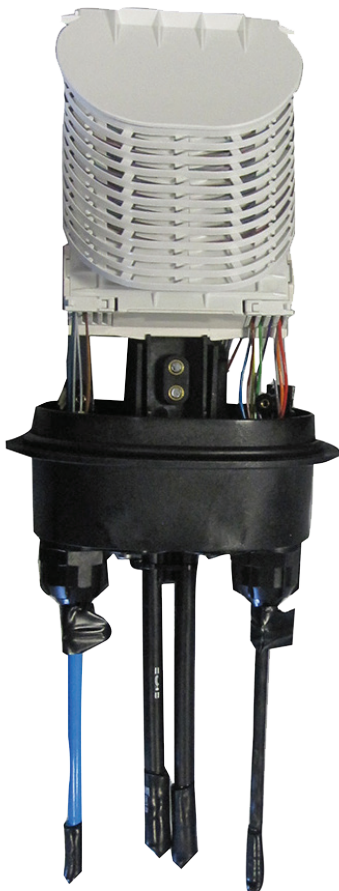
PART NO.	DESCRIPTION
UMJ-F-X-XXXX-X-X-X	UMJ COMPLETE WITH TRAYS NO KITS

Mills
EST. 1919

PRYSMIAN XMJ (CMJ) PRE-CONNECTORISED CLOSURE

The pre-connectorised XMJ closure range (CMJ) is designed for the jointing of optical fibre cables. The joint is ideal for use as a final drop solution due to its capacity and compact size.

It has a maximum capacity of 72 fibre splices (MMJ). The connectorised pigtails are factory fitted and each tray can accommodate up to 12 spliced fibres.

The single element 2.2 tray also has the ability to house up to 1x1:8 splitter, which can also be factory fitted.

A multi-functional bracket can be supplied with the joint which enables wall or pole mounting of the joint vertically or horizontally.

The joint has four circular ports for mechanical entry glands, one oval port for heat shrink or mechanical entry and two additional small circular ports also for heat shrink entry.

Design and Construction

- Supplied with up to 2 single element trays each able to accommodate 12 splices providing a maximum capacity of 24 fibres.
- Drop cable capacity 12SC / 24LC
- Each tray has the provision to mount optical splitters.

- The closure base has 4 circular entry ports and an oval port. Cables up to 23mm in diameter can be installed into each port.
- Drop cables are installed through a split seal and routed around the input mandrels
- A further two small ports are available as emergency ports. These ports are for heat shrink entry and can accommodate a cable of up to 12mm in diameter.
- Circular port cables are sealed using a split mechanical sealing gland.
- Oval port cables are sealed using adhesive lined heat shrink sleeves or using a mechanical oval port entry kit.
- Multi Way Split Entry Glands are available to allow the installation of several cables into one circular port.
- Splice trays hinge upwards individually, allowing full access to spliced fibres without disturbance to live fibres in adjacent trays.
- Integrated loop storage basket for mid-span applications.
- Can be supplied with a pole/wall mounting bracket.
- Can be supplied with a flash test valve or a pressure relief

valve. These can also be used for earthing.
- Closure and glands sealed to IP68.

Technical Data

- Minimum Fibre Bend Radius (mm): 30 (Note: The input manifold contains mandrels to cross fibres from one side of the stack to the other. These are limited to 20mm radius if used).
- Number of Cable Ports: 4 circular and 1 oval (also contains 2 additional small emergency ports)
- Cable Diameter Range (mm):
- Circular Port: 4 to 23
- Multi Port (in circular port): 3-5mm round (4 Way), 3-5mm round (8 Way), 5–7mm round (2 Way)
- Oval Port: 7 to 21 (Heat Shrink), 5 to 14.8 (mechanical)
- Emergency Port: 4 to 12
- Cable Retention (N):
- Circular Port: > Cable (Ø/45) x 1000N with central strength member secured.
- 4 Way Multi Way (in circular port): > 150N for cables with Aramid yarns, > 30N for cables without Aramid yarns
- Multi way gland: 100N for pre-connectorised cables
- Maximum number of splice trays: 2

Single Element
- Maximum fibre capacity of Joint: 24 Single Element
- Splitter capacity: Optical splitters of 4mm x 4mm x 60mm on trays - 2
- Required space envelope (mm): (l) 305 x (w) 231 x (d) 164
- Operating temperature: -40oC to + 70oC (5 to 95% RH)

Material

- Cap: GF Polypropylene
- Base: GF Polypropylene
- Clamp: GF Nylon
- Splice Trays: FR ABS

Testing

- Closure Sealing: IP68 (5 metres) (IEC 61300-2-23)
- Optical: Tested 1310nm,1550nm and 1625nm
- Change of Temperature: IEC 61300-2-22
- Dry Heat: BS EN 60068-2-2 Test Bb
- Damp Heat: IEC 60068-2-3: 1969
- Vibration: IEC 61300-2-1
- Torsion: IEC 61300-2-5
- Bending: IEC 61300-2-37
- Impact: IEC 61300-2-12
- Cable Retention: IEC 61300-2-4
- Crush Resistance: IEC 61300-2-10

Available in multiple configurations including:
- SC/APC. LC/UPC adaptors
- LC/APC, LC/UPC adaptors
- 1:8 spitters
- Pigtails

PRYSMIAN CMJ COMPACT MULTI-FUNCTION JOINT WITH TRAYS (MAXIMUM CAPACITY OF 144 FIBRES)

Prysmian
Group

The Compact Multi Function Joint (CMJ) is for jointing optical fibre cables. The joint is ideal for use as a Cable Chamber Joint, Track Joint, Spur Joint or Distribution Joint due to its capacity and compact size.

It has a maximum capacity of 144 fibres. The splice trays are factory fitted and each tray can accommodate up to 12 spliced fibres.

A multi-functional bracket can be supplied with the joint which enables wall or pole mounting of the joint vertically or horizontally.

The joint has four circular ports for mechanical entry glands, one oval port for heat shrink or mechanical entry and two additional small circular ports also for heat shrink entry.

Supplied with 12 single element trays each able to accommodate 12 splices providing a maximum capacity of 144 fibres, or 12 single circuit splice trays. Each single circuit splice tray has two storage sections providing a total of 24 trays per joint. Each tray can accommodate up to 4 splices providing a total capacity of 96 fibres.

- An input manifold manages the tubes to a common routing channel and has the provision to mount up to four optical splitters.
- The closure base has 4 circular entry ports and an oval port. Cables up to 23mm in diameter can be installed into each port. A further two small ports are available as emergency ports. These ports are for heat shrink entry and can accommodate a cable of up to 12mm in diameter.
- Oval port cables are sealed using adhesive lined heat shrink sleeves or using a mechanical oval port entry kit.
- Multi Way Entry Glands are available to allow the installation of a number of cables into one circular port.
- Can be supplied with a pressure test valve for flash testing and earthing.

Visit millsltd.com for more info

For MOBRA Mounting - See page 85

The CMJ is supplied as standard with:

1 x Base, 1 x Cap, 1 x Clamp, 1 x O Seal,
1 x Fibre Routing Manifold, 2 x Tube Retainers,
4 x Tube Retainer Covers, 1 x Loop Storage Basket

A full range of single Entry Gland Kit, Multi Way Entry Gland Kits, Oval Port Entry Kit, Silicone Grease, Emergency Port Cable Entry, Optical Splitters, Splice Protectors, Mounting Bracket / Support Tool are shown on page 85.

PART NO.	DESCRIPTION
CMJ-F-X-XXXX-X-X-X	CMJ COMPLETE WITH TRAYS NO KITS
CMJ-F-X-XXXX-Y-X-X	CMJ COMPLETE WITH TRAYS AND TEST VALVE - NO KITS
CMJ-F-X-XXXX-X-Y-X	PRYSMIAN CMJ COMPACT MULTI-FUNCTION JOINT SE 2.2 WITH TRAYS AND WALL/POLE BRACKET, NO KITS
CMJ-F-X-XXXX-Y-Y-X	PRYSMIAN CMJ COMPACT MULTI-FUNCTION JOINT SE 2.2 WITH TRAYS, TEST VALVE, WALL/POLE BRACKET, NO KITS

PRYSMIAN XMJ (MMJ) PRE-CONNECTORISED CLOSURE

The pre-connectorised XMJ closure range (MMJ) is designed for the jointing of optical fibre cables. The joint is ideal for use as a final drop solution due to its capacity and compact size.

It has a maximum capacity of 72 fibre splices. The connectorised pigtails are factory fitted and each tray can accommodate up to 12 spliced fibres.

The single element 2.2 tray also has the ability to house up to 1x1:8 splitter, which can also be factory fitted.

A multi-functional bracket can be supplied with the joint which enables wall or pole mounting of the joint vertically or horizontally.

The joint has four circular ports for mechanical entry glands, one oval port for heat shrink or mechanical entry and two additional small circular ports also for heat shrink entry.

Design and Construction

- Supplied with up to 6 single element trays each able to accommodate 12 splices providing a maximum capacity of 72 fibres.
- Drop cable capacity 24SC / 48LC *MMJ closure cannot support 48 individual drop cables. Multifibre drops should be used to utilise the full capacity.

- Each tray has the provision to mount optical splitters.
- The closure base has 4 circular entry ports and an oval port. Cables up to 23mm in diameter can be installed into each port.
- Drop cables are installed through a split seal and routed around the input mandrels
- A further two small ports are available as emergency ports. These ports are for heat shrink entry and can accommodate a cable of up to 12mm in diameter.
- Circular port cables are sealed using a split mechanical sealing gland.
- Oval port cables are sealed using adhesive lined heat shrink sleeves or using a mechanical oval port entry kit.
- Multi Way Split Entry Glands are available to allow the installation of several cables into one circular port.
- Splice trays hinge upwards individually, allowing full access to spliced fibres without disturbance to live fibres in adjacent trays.
- Integrated loop storage basket for mid-span applications.
- Can be supplied with a pole/wall mounting bracket.
- Can be supplied with a flash

test valve or a pressure relief valve. These can also be used for earthing.
- Closure and glands sealed to IP68.

Technical Data

- Minimum Fibre Bend Radius (mm): 30 (Note: The input manifold contains mandrels to cross fibres from one side of the stack to the other. These are limited to 20mm radius if used).
- Number of Cable Ports: 4 circular and 1 oval (also contains 2 additional small emergency ports)
- Cable Diameter Range (mm):
- Circular Port: 4 to 23
- Multi Port (in circular port): 3-5mm round (4 Way), 3-5mm round (8 Way), 5–7mm round (2 Way)
- Oval Port: 7 to 21 (Heat Shrink), 5 to 14.8 (mechanical)
- Emergency Port: 4 to 12
- Cable Retention (N):
- Circular Port: > Cable (Ø/45) x 1000N with central strength member secured.
- 4 Way Multi Way (in circular port): > 150N for cables with Aramid yarns, > 30N for cables without Aramid yarns
- Multi way gland: 100N for pre-connectorised cables

- Maximum number of splice trays: 6 Single Element
- Maximum fibre capacity of Joint: 72 Single Element
- Splitter capacity: Optical splitters of 4mm x 4mm x 60mm on trays - 6
- Required space envelope (mm): (l) 390 x (w) 231 x (d) 164
- Operating temperature: -40oC to + 70oC (5 to 95% RH)

Material

- Cap: GF Polypropylene
- Base: GF Polypropylene
- Clamp: GF Nylon
- Splice Trays: FR ABS

Testing

- Closure Sealing: IP68 (5 metres) (IEC 61300-2-23)
- Optical: Tested 1310nm,1550nm and 1625nm
- Change of Temperature: IEC 61300-2-22
- Dry Heat: BS EN 60068-2-2 Test Bb
- Damp Heat: IEC 60068-2-3: 1969
- Vibration: IEC 61300-2-1
- Torsion: IEC 61300-2-5
- Bending: IEC 61300-2-37
- Impact: IEC 61300-2-12
- Cable Retention: IEC 61300-2-4
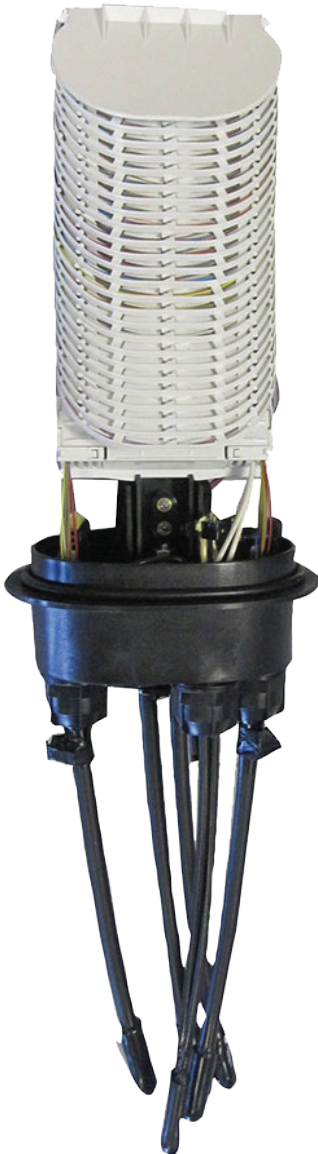- Crush Resistance: IEC 61300-2-10

Available in multiple configurations including:
- SC/APC. LC/UPC adaptors
- LC/APC, LC/UPC adaptors
- 1:8 spitters
- Pigtails

PRYSMIAN MMJ MEDIUM MULTI-FUNCTION JOINT WITH TRAYS (MAXIMUM CAPACITY OF 144 FIBRES)

Prysmian Group

The Medium Multi Function Joint (MMJ) is for jointing optical fibre cables.

The joint is ideal for use as a Cable Chamber Joint, Track Joint, Spur Joint or Distribution Joint due to its capacity and compact size. It has a maximum capacity of 288 fibres.

The splice trays are factory fitted and each tray can accommodate up to 12 spliced fibres.

The joint has four circular ports for mechanical entry glands, one oval port for heat shrink or mechanical entry and two additional small circular ports also for heat shrink entry.

The MMJ is supplied with:

1 x Base, 1 x Cap, 1 x Clamp, 1 x O Seal, 1 x Fibre Routing Manifold, 2 x Tube Retainers, 4 x Tube Retainer Covers, 1 x Loop Storage Basket

A full range of single Entry Gland Kit, Multi Way Entry Gland Kits, Oval Port Entry Kit, Silicone Grease, Emergency Port Cable Entry, Optical Splitters, Splice Protectors, Mounting Bracket / Support Tool are shown on page 85.

- Supplied with 24 single element trays each able to accommodate 12 splices providing a maximum capacity of 288 fibres, or 24 single circuit splice trays. Each single circuit splice tray has two storage sections providing a total of 48 trays per joint. Each tray can accommodate up to 4 splices providing a total capacity of 192 fibres.

- The closure base has 4 circular entry ports and an oval port. Cables up to 23mm in diameter can be installed into each port. A further two small ports are available as emergency ports. These ports are for heat shrink entry and can accommodate a cable of up to 12mm in diameter.

- Circular port cables are sealed using a mechanical sealing gland. The gland can be assembled onto the cable away from the joint and is then simply plugged into the base.

- Oval port cables are sealed using adhesive-lined heat shrink sleeves or using a mechanical oval port entry kit.

- Multi-Way Entry Glands are available to allow the installation of a number of cables into one circular port.

- Can be supplied with a pressure test valve for flash testing and earthing.

PART NO.	DESCRIPTION
MMJ-F-X-XXXX-X-X-X	MMJ COMPLETE WITH TRAYS NO KITS
MMJ-F-X-XXXX-Y-X-X	MMJ COMPLETE WITH TRAYS AND TEST VALVE - NO KITS
MMJ-F-X-XXXX-X-Y-X	PRYSMIAN MMJ MEDIUM MULTI-FUNCTION JOINT SE 2.2 WITH TRAYS AND WALL/POLE BRACKET, NO KITS
MMJ-F-X-XXXX-Y-Y-X	PRYSMIAN MMJ MEDIUM MULTI-FUNCTION JOINT SE 2.2 WITH TRAYS, TEST VALVE, POLE/WALL BRACKET, NO KITS

CABLE ENTRY KITS FOR UMJ, CMJ AND MMJ PRYSMIAN MULTI-FUNCTION JOINTS

A) MECHANICAL CIRCULAR PORT CABLE ENTRY KITS FOR USE WITH UMJ / CMJ / MMJ

Prysmian Circular Port Entry Glands are used to install cables into the ports of a joint closure base. The glands are mechanical in nature and are installed onto the cable, then simply pushed into the base of the joint.

- Available in single, dual, quad and 8 way variations.
- Each kit contains all necessary parts to seal the cable and secure the cable strength members.
- Multi-way glands are useful when installing several smaller cables into one circular port.
- For larger cables an Oval Port Kit is used.

B) MECHANICAL OVAL PORT CABLE ENTRY KITS FOR USE WITH UMJ / CMJ / MMJ

Prysmian Oval Port Mechanical Entry Kits are used to install a loop of cable into the oval port of joint closures.

- Available for the UMJ, CMJ & MMJ joint closures.
- Each kit contains all components required to prepare and install cable and route fibre to the splice trays.
- Cable sealed into the oval port using a mechanical gland system comprising of two plates and a rubber block.

C) HEAT SHRINK OVAL PORT CABLE ENTRY KITS FOR USE WITH UMJ / CMJ / MMJ

The UMJ / CMJ / MMJ Oval Port Heat Shrink Entry Kit is used to install a loop of cable into the oval port.

The kit contains all of the components required to prepare and install the cable, and route the cable fibres to the splice trays.

The cables are sealed into the oval port using a heat shrink sleeve.

D) SPLICE PROTECTORS FOR USE WITH UMJ / CMJ / MMJ /LMJ

Prysmian splice protectors used to protect the fibre splice after splicing.

Available in different diameters and lengths.

Prysmian
Group

A) Mechanical Circular Port Cable Entry Kits for use with UMJ / CMJ / MMJ

PART NO.	DESCRIPTION
XJTSC02186	MECH SEAL - DUAL 5 TO 9 MM
XJTSC02572	MECH SEAL - 4 WAY CSM CABLE GLAND
XJTSC02767	MECH SEAL - 4 WAY CSM GLAND 4.0 TO 6.0
XJTSC02768	MECH SEAL - 4 WAY CSM GLAND 5.0 TO 7.0
XJTSC02769	MECH SEAL - 4 WAY CSM GLAND 7.0 TO 8.5
XJTSC02260	MECH SEAL - 8 WAY GLAND 3MM ROUND CABLES
XJTSC02193	MECH SEAL - CABLE ENTRY GLAND 20-23MM
XJTSC02278	MECH SEAL - CIRCULAR ENTRY KIT 4-7MM
XJTSC01755	MECH SEAL - MEDIUM 4 WAY ENTRY GLAND
XJTSC01754	MECH SEAL - MEDIUM ENTRY GLAND 7-20MM
XJTSC02352	MECH SEAL - 4 WAY SST CABLE KIT

B) Mechanical Oval Port Cable Entry Kits for use with UMJ / CMJ / MMJ

PART NO.	DESCRIPTION
XJTSC02031	UMJ / CMJ / MMJ - MECH OVAL PORT KIT - 11 TO 13MM
XJTSC02028	UMJ / CMJ / MMJ - MECH OVAL PORT KIT - 5 TO 7MM
XJTSC02029	UMJ /CMJ / MMJ - MECH OVAL PORT KIT - 7 TO 9MM
XJTSC02030	UMJ / CMJ / MMJ - MECH OVAL PORT KIT - 9 TO 11MM
XJTSC01896	UMJ / CMJ / MMJ- MECH OVAL PORT KIT - 13.1 TO 14.8MM

C) Heat Shrink Oval Port Cable Entry Kits for use with UMJ / CMJ / MMJ

PART NO.	DESCRIPTION
XJTSC01756	UMJ / CMJ / MMJ HEAT SHRINK OVAL PORT KIT

D) Splice Protectors for use with UMJ / CMJ / MMJ/LMJ

PART NO.	DESCRIPTION
XKTSC01284	SPLICE PROTECTORS 1.3MM (PACK OF 12)
XPESC00057	SPLICE PROTECTORS 1.3MM (PACK OF 50)
XKTSC00050	SPLICE PROTECTORS 2.2MM (PACK OF 12)
XKTSC00079	SPLICE PROTECTORS CRIMP (PACK OF 12)
XKTSC00078	SPLICE PROTECTORS CRIMP (PACK OF 50)

ACCESSORIES FOR UMJ, CMJ AND MMJ PRYSMIAN MULTI-FUNCTION JOINTS

E) SPLITTERS FOR USE WITH UMJ / CMJ / MMJ / LMJ

PLC splitters are used to provide a compact and reliable method to split the optical signal. This popular range of splitters is available with up to 32 outputs and has excellent uniformity and low PDL.
64 output splitters are available on request.
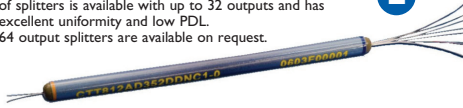
F) PRYSMIAN GLAND WRENCH

The gland spanner is used to tighten the cable glands used for circular port entry.

The spanner has a flat profile on one end and a cupped profile on the other end.

G) PRYSMIAN SILICON SEALING GREASE (PACK 5)

Silicone grease is used when installing a cable into one of the mechanical entry glands.

The grease is smeared onto the cable sheath to ensure that any imperfections in the sheath do not affect the cable sealing.

Supplied in a pack of 5.

H) PRYSMIAN UMJ / CMJ / MMJ SUPPORT TOOL

The Support Tool allows the user to support the Joint within a portable workbench.

The bracket is designed to fit most commercially available workbenches.
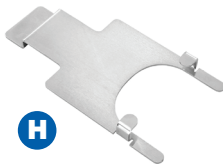
I) PRYSMIAN EMERGENCY PORT ENTRY KIT HEAT SHRINK UMJ / CMJ / MMJ / LMJ

The Emergency Port Entry Kit is used to install an additional cable into one of the small circular ports of the joint.

The kit comprises a cable heat shrink, aluminium foil and an alcohol wipe.

J) PRYSMIAN HEAT SHRINK PORT ADAPTOR PLUG 16-30MM LMJ

Heat Shrink Port Adaptor Plug for use with Prysmian LMJ Joints.

For cables up to 30mm in diameter.

K) PRYSMIAN UMJ / CMJ / MMJ HALF SIZE MOBRA MOUNTING BRACKET

Prysmian MOBRA arms for use with UMJ, CMJ and MMJ Closures.

L) PRYSMIAN POLE/WALL MOUNTING BRACKET UMJ/ CMJ/MMJ

The Pole / Wall Mounting Bracket is a universal bracket fitted to the clamp of the joint.

It is used to mount the UMJ / CMJ or MMJ closure to a pole, wall, or wall of a footway box and allows storage in the horizontal or vertical position.

M) PRYSMIAN UMJ CMJ MMJ FLAT WALL / POLE MOUNTING BRACKET

Wall or pole mounting bracket that can allow the UMJ to site closer to the wall.

Perfect for congested pits where there is limited space

Tested to the IP68 specification.

Can be used with the UMJ, CMJ and the MMJ.

Prysmian Group

E) SPLITTERS FOR USE WITH UMJ / CMJ / MMJ / LMJ

PART NO.	DESCRIPTION
XSPSG00002	SP-PL-1/04-XXX/XXX-2.0/2.0-SM08-250-DWWB
XSPSG00003	SP-PL-1/08-XXX/XXX-2.0/2.0-SM08-250-DWWB
XSPSG00004	SP-PL-1/16-XXX/XXX-2.0/2.0-SM08-250-DWWB
XSPSG00005	SP-PL-1/32-XXX/XXX-2.0/2.0-SM08-250-DWWB

F-J) GENERAL ACCESSORIES FOR USE WITH UMJ / CMJ / MMJ/ LMJ

XJTSC02320	F) MECH SEAL - SPANNER
XBFSC00260	G) SILICON SEALING GREASE (PACK OF 5)
XJTSC00075	H) UMJ / CMJ / MMJ SUPPORT TOOL
XKTSC00401	I) EMERGENCY PORT KIT
XJTSC02608	J) HEAT SHRINK PORT GLAND FOR CABLES OVER 16MM

K-M) MOUNTING BRACKETS FOR USE WITH UMJ / CMJ / MMJ/ LMJ

XJTSC03265	K) UMJ/CMJ/MMJ HALF SIZE MOUNTING BRACKET
XJTSC02585	K) PRYSMIAN UMJ / CMJ / MMJ FULL SIZE MOBRA KIT
XJTSC02405	K) PRYSMIAN UMJ CMJ MMJ MOUNTING BRACKET
XJTSC03286	K) PRYSMIAN UMJ/CMJ/MMJ UNIVERSAL MOBRA ARM MOUNTING KIT
XJTSC00136	L) UMJ / CMJ / MMJ POLE/WALL MOUNTING BRACKET
XJTSC03020	N) FLAT BRACKET FOR UMJ / CMJ / MMJ

PRYSMIAN LMJ LARGE MULTI-FUNCTION JOINT – AVAILABLE IN SHORT, MEDIUM AND LARGE VERSIONS

Prysmian LMJ Large Multi-Function Joint – available in short, medium and large versions

The LMJ is used for access applications within the external optical network and can be used for track, spur and loop applications.

It can accommodate a wide variety of cables such as loose tube, central loose tube, Flextube and blown fibre.

The modular tray system is designed for positive fibre management for Single Circuit Management (SCM) and Single Element Management (SEM), and the splice trays can accommodate a variety of different types of splice protectors and splitters.

The joint has ten circular ports and one oval port for mechanical entry. Mechanical glands are used to seal cables into the circular ports.

Features and Benefits

• A large closure for optical cable splicing with two vertical tray stacks.

• Two input manifolds manage cable tubes to a common routing channel.

• Input manifolds enable fibres to be passed from stack to stack.

• Cables are sealed using mechanical sealing glands. Cables from 4 to 23mm in diameter can be accommodated into each circular port.

• Multi-Way Entry Glands provide alternate mechanical entry to allow up to 8 cables in each circular port.

• Can accommodate a range of splitter modules from 1x2 to 2x64.

• The closure is sealed to IP68.

The LMJ is supplied as an empty closure with a cap, a base, a clamp, a sealing gasket and a support frame.

A) PRYSMIAN LMJ - SHORT CAP CLOSURE
48 TRAYS (24+24) SPLICE CAPACITY 1152F

B) PRYSMIAN LMJ - MEDIUM CAP
TOTAL TRAY CAPACITY: 80 TRAYS (40+40)

C) PRYSMIAN LMJ - LARGE CAP
TOTAL TRAY CAPACITY: 112 TRAYS (56+56)

D) PRYSMIAN LMJ - SHORT CAP CLOSURE 48 TRAYS (24+24)
SPLICE CAPACITY 1152F

PART NO.	DESCRIPTION
XJTSC02365	A) LMJ - SHORT CAP CLOSURE + 48 SE2.2 TRAYS
XJTSC02366	B) LMJ - MEDIUM CAP CLOSURE + 80 SE2.2 TRAY
XJTSC02367	C) LMJ - LONG CAP CLOSURE + 112 SE2.2 TRAYS
XJTSC02357	D) LMJ - SHORT CAP CLOSURE 48 TRAYS (24+24) SPLICE CAPACITY 1152F

LMJ PORT CABLE ENTRY KITS AND ACCESSORIES

A) LMJ Mechanical Oval Port Cable Entry Kits

C) Prysmian LMJ Universal MOBRA Arm Mounting Kit

A universal bracket designed to allow Prysmian LMJ enclosures to be to mounted on a standard MOBRA arm (S83-0526). LMJ not to be used in a JUF2 chamber.
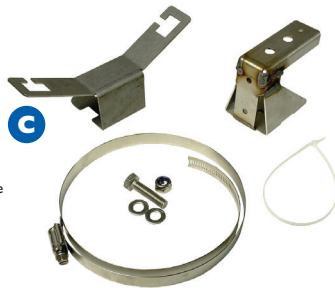
B) LMJ Mechanical Circular Port Cable Entry Kits

D) Prysmian LMJ Mobra Mounting Bracket

The arm is designed to be used in JUF/4/6/10 chambers and used with a S83-0525 JUF/4/6 mobra chamber mounting bracket and S83-0524 JUF/10 mobra chamber mounting bracket- Overall length 810mm x width 60mm.

E) Prysmian LMJ Support Tool

Allows the user to support an LMJ joint within a portable workbench.

F) Prysmian LMJ Handle Kit

Contains two handles and two long cable ties. The handles can be strapped to the LMJ cap to ease lifting in and out of the jointing pit.

G) Prysmian LMJ Wall / Pole Mounting Bracket

PART NO.	DESCRIPTION
XJTSC02270	A) LMJ - OVAL PORT KIT 10.0 TO 12.0
XJTSC02185	A) LMJ - OVAL PORT KIT 11.5 TO 17.5MM
XJTSC02271	A) LMJ - OVAL PORT KIT 12.0 TO 14.0
XJTSC02272	A) LMJ - OVAL PORT KIT 14.0 TO 16.0
XJTSC02273	A) LMJ - OVAL PORT KIT 16.0 TO 18.0
XJTSC02555	A) LMJ - OVAL PORT KIT 18.0 TO 20.0MM
XJTSC02556	A) LMJ - OVAL PORT KIT 20.1 TO 21.5MM
XJTSC02382	A) LMJ - OVAL PORT KIT 6.0-8.0 GENERAL
XJTSC02269	A) LMJ - OVAL PORT KIT 8.0 TO 10.0

PART NO.	DESCRIPTION
XJTSC02186	B) MECH SEAL - DUAL 5 TO 9 MM
XJTSC02572	B) MECH SEAL - 4 WAY CSM CABLE GLAND
XJTSC02767	B) MECH SEAL - 4 WAY CSM GLAND 4.0 TO 6.0
XJTSC02768	B) MECH SEAL - 4 WAY CSM GLAND 5.0 TO 7.0
XJTSC02769	B) MECH SEAL - 4 WAY CSM GLAND 7.0 TO 8.5
XJTSC02260	B) MECH SEAL - 8 WAY GLAND 3MM ROUND CABLES
XJTSC02193	B) MECH SEAL - CABLE ENTRY GLAND 20-23MM
XJTSC02278	B) MECH SEAL - CIRCULAR ENTRY KIT 4-7MM
XJTSC01755	B) MECH SEAL - MEDIUM 4 WAY ENTRY GLAND
XJTSC01754	B) MECH SEAL - MEDIUM ENTRY GLAND 7-20MM
XJTSC02352	B) MECH SEAL - 4 WAY SST CABLE KIT

PART NO.	DESCRIPTION
XJTSC02953	C) PRYSMIAN LMJ UNIVERSAL MOBRA ARM MOUNTING KIT

PART NO.	DESCRIPTION
XJTSC03203	D) LMJ MOUNTING BRACKET

PART NO.	DESCRIPTION
XJTSC02274	E) LMJ - SUPPORT BRACKET KIT

PART NO.	DESCRIPTION
XJTSC02548	F) LMJ - HANDLE KIT

PART NO.	DESCRIPTION
XJTSC02597	G) LMJ - WALL / POLE BRACKET - GM

FOSC 400 & FOSC 450G EXTERNAL FIBRE OPTIC SPLICE CLOSURES

CommScope's FOSC 400 products are butt-type closures used in the outside plant network when mass splice storage is the main requirement.

They are available in four different sizes and are typically used as track joints. Depending on the closure size, the splice storage and organiser trays can accommodate from 6 to 768 single fibre splices. All splicing trays are hinged at one end and any fibre can be accessed without disturbing fibre on other trays, kinking buffer tubes, or introducing losses. All cable termination and sealing functions are provided with the closures. Uncut loose buffer tube storage is provided in optional storage baskets.

GEL SEALED

FOSC 450G

FOSC 400

The FOSC 400 range is available with traditional heat shrink cable seals or TE's new gel sealing system. FOSC 450G gel sealed splice closures have the same splice capacity as standard FOSC 400 closures and feature the same reliable and easy-to use dome-to-base clamping system. The major difference with the FOSC 450G closures is that the cable sealing terminations use gel sealing technology instead of traditional heat shrink. Gel seal cable terminations automatically adjust to cable size and shape, and require no special tools, tapes or mastics to install. Gel seals enable quick and easy cable removal and are completely re-usable.

COMMSCOPE Distributor

Ring sales for *ordering guide* or visit: millsltd.com

FIST-GC02 EXTERNAL FIBRE OPTIC SPLICE CLOSURES

CommScope's generic closure FIST-GCO2 is an environmentally sealed enclosure for the FIST fibre management system. The closure is a single-ended design made of a thermoplastic material. The base and dome are sealed with a clamp (or latches) and an O-ring system. One oval entry port for looped (uncut) cable and 6 or 16 round ports for single cable entry/exit are provided in the base. (8 round or 6 + 1 oval port for GCO2-FX version).

FIST-GCO2 has provision for all cable termination and sealing requirements. Cable seals are manufactured from heat-shrinkable or gel material.

The universal mounting system profiles provide the foundation for mounting combinations of SOSA2 Tray and/or SASA2 splitter modules, which consist of a modular groove plate and trays.

COMMSCOPE Distributor

Ring sales for *ordering guide* or visit: millsltd.com

COMMSCOPE FIST MSC MODULAR SPLICE CLOSURE

Single ended o-ring sealed dome closure for high capacity splicing in a versatile and modular build. Transient free and flexible FIST fibre management for optimised fibre routing and cable storage.

Fully removable base for easy cable access during installation and provisioning. Compatible with high end environmental specifications for aerial, pedestal, underground or direct buried applications. Superior gel-sealing technology incorporated in interchangeable and fully wrap around gel segments.

Toolless and intuitive design in cable seals and cable attachments. Compatible with a wide range of fibre cable sizes and types.

COMMSCOPE Distributor

Commscope Wall / Pole Mounting Bracket for FIST-MSC Closures

Commscope Wall / Pole Mounting Bracket for FIST-MSC Closures

Visit millsltd.com for more info

PART NO.	DESCRIPTION
FIST-MSC	COMMSCOPE FIST MSC MODULAR SPLICE CLOSURE
760242595	COMMSCOPE WALL / POLE MOUNTING BRACKET FOR FIST-MSC CLOSURES

COMMSCOPE FIST-EDSA FTTH ENCLOSURE

The FIST-EDSA features innovative sealing and cable retention for a range of cables, combined with proven gel-seal technology and FIST fibre management hardware.

COMMSCOPE Distributor

Features:

- Single-ended base and dome design with only two latches
- Four long oval-shaped gel-sealed drop ports for 12 drop cables each (maximum 48 drops)
- One oval shaped gel-sealed feeder port
- Feeder loop possibility
- Feeder cable diameter maximum 16mm
- Drop cable diameter range: 5-8mm
- Fast, easy, toolless installation
- Single-sided UMS (Universal Mounting System) frame allows mounting of FIST management grooveplates and trays
- Repair and upgrade possibility
- Intuitive identification
- Eliminates need for waterblock connectors
- New cable attachment design: toolless and wrap-around installation.
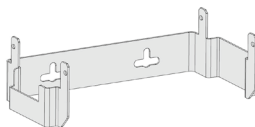
CommScope Wall Mounting bracket for FIST EDSA Fibre Closure

CommScope Wall Mounting bracket for FIST EDSA Fibre Closure.

Visit millsltd.com for more info
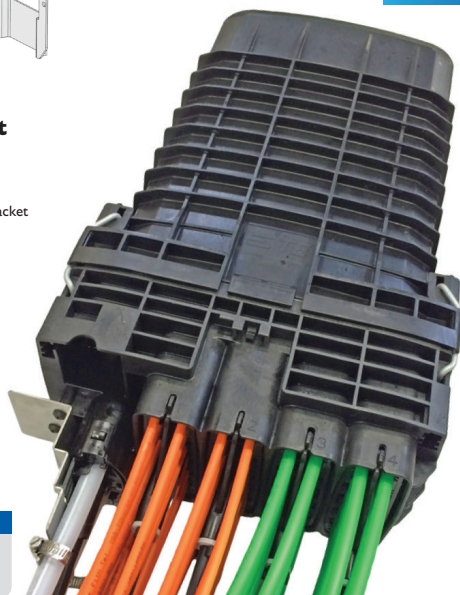
PART NO.	DESCRIPTION
FIST-EDSA	COMMSCOPE FIST-EDSA FTTH ENCLOSURE
EG2461-000	COMMSCOPE WALL MOUNTING BRACKET FOR FIST EDSA FIBRE CLOSURE

TENIO FIBRE CLOSURES

TENIO closures enable 30% faster, future-proof network deployments in 30% less space. TENIO closures feature modular building blocks and combine proven fibre management hardware with a new sealing system to simplify training and reduce inventory. The CommScope closure's 100-percent mechanical, tool-less and intuitive design facilitates lower-skilled network deployments. Full modularity of the closure platform supports a phased CAPEX network deployment scheme, reducing up-front CAPEX investment.

Designed for use with any cable construction (loose buffer tube, central core tube, loose fibre), the closures deploy in any environment (aerial, pedestal, handhole, manhole) and CommScope's superior gel-sealing technology guarantees sealing regardless of cable type and form.

Reduced installation time
• Optimized FIST fibre management system leading to 30% faster and more intuitive fibre routing and installation
• Up to 144 (12 x 12 fibres), 192 (8 x 24 fibres) or 288 (12 x 24 fibres) fibre splices

Dedicated storage locations
• Separate location for optical device storage maintains full splice capacity
• Storage basket for looped cable with tubes up to 2.4 mm in diameter
• Integrated basket for drop cable, spare fibre storage

Fibre and cable technology independent
• Compatible with 652D fibre
• Minimum 1.2m over-length storage per splice side
• Control fibre/tube grow-out for up to +20 mm

Available in B6,C6 and C6H Sizes

ACCESSORIES

Splice trays
Order separate splice trays to complete unloaded or partially loaded closures.

Patch trays
Order these trays for retrofit in TENIO-B6 or TENIO-C6 closures. These trays provide test/monitoring points.

Adaptors are ordered separately; only adaptors without flanges fit in these patch trays.

Field installable splitter sub-assemblies
Order this assembly and optical splitter module to add splitting capability to a new or previously installed TENIO closure.

To configure and receive a quotation for your Tenio, please contact our sales department.
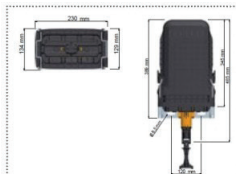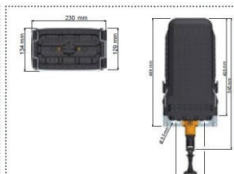
B6 Closure

C6 and C6H closure
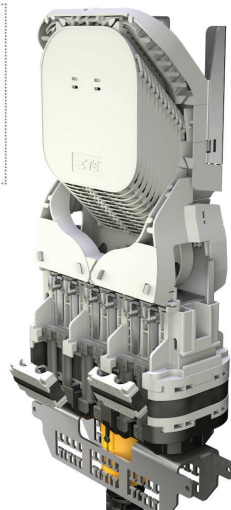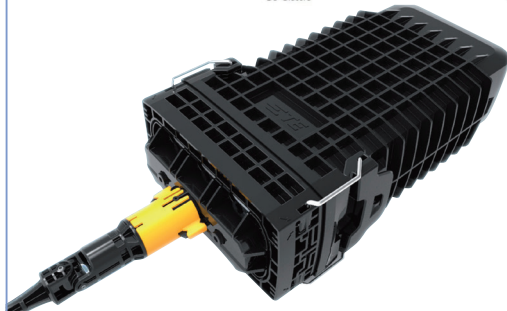
Ring sales for ordering guide or visit: millsltd.com

MILLS MOBRA ARM MOUNTING KIT FOR COMMSCOPE TENIO CLOSURE

A complete mounting kit for mounting a standard CommScope Tenio enclosure directly to standard MOBRA arms.

The kit comprises:
1 x Tenio Enclosure Bracket
4 x Clevis Pins to attach Tenio to Bracket
1 x Tenio/Mobra Saddle Bracket
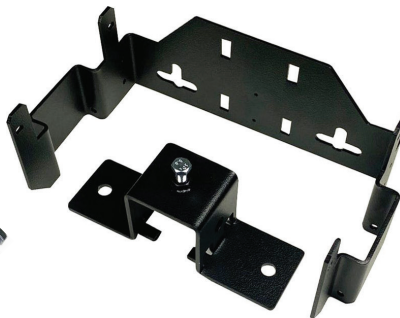
Visit millsltd.com for more info

PART NO.	DESCRIPTION
S83-2581	MILLS MOBRA ARM MOUNTING KIT FOR COMMSCOPE TENIO CLOSURE

OFDC SPLICE CLOSURES FROM COMMSCOPE

Outdoor Fibre Distribution Closure (OFDC) family. Including three different series, the OFDC family accepts a wide range of distribution and drop cables thus responding to virtually all application requirements.

Each series has a common housing that can be configured to handle different connectivity solutions; such as splice-only, pre-connectorized drop cables, and field-installable connectors (FIC) - significantly simplifying training.

The field-friendly design can be installed in pedestal, hand hole, pole or strand mount applications for fast and easy integration into the FTTx network. Strand, Ped and Pole mount bracket accessory kits are also available for easy installation.
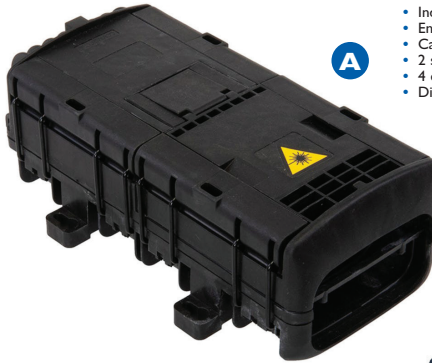
A) OFDC-A4. The smallest splicebox in the CommScope OFDC series. Finished with gel seals and splice cassettes.

- Indoor / outdoor use
- Enclosure class IP68
- Capacity of 24 joints
- 2 supply cables 4.5-12 mm
- 4 drop cables 2-6 mm
- Dimensions 211 x 94 x 70 mm

D) Mills Mobra Arm Mounting Kit for Commscope OFDC BG-8

Accessory kit for mounting a standard Commscope OFDC BG-8 enclosure.

E) S83-5094 Mills Mobra Arm Mounting Kit for Commscope OFDC BG-12

Accessory kit for mounting a standard Commscope OFDC BG-12 enclosure.

The kits comprise:
- 1 x Star Shaped OFDC Saddle Bracket with pinch bolt
- 4 x M6 bolts and washers for attaching bracket to OFDC.

F) CommScope Universal FTTx Bracket Pole/Chamber For OFDC & BUDI Enclosures.

Mounting brackets and accessorries for CommScope OFDC, BUDI and HST product solutions

- Universal FTTx bracket for OFDC enclosures
- Also suitable for BUDI 1S & 2S enclosures
- DescriptionUniversal FTTx Bracket

Manufacturer Part Number:760253871

B) OFDC-BG8. The middle-size splicebox in the CommScope OFDC series. Finished with gel seals and splice cassettes.

- Indoor / outdoor use
- Enclosure class IP68
- Capacity of 66 joints
- 2 supply cables 11.5-15 mm
- 2 branches 8-11 mm
- 8 drop cables 1.5-5.5 mm
- 324 x 156 x 128 mm

C) OFDC-C12. The largest splicebox in the CommScope OFDC series. Finished with gel seals and splice cassettes.

- Indoor / outdoor use
- Enclosure class IP68
- Capacity of 96 joints
- 2 supply cables 11.5-15 mm
- 2 branches 8-11 mm
- 12 drop cables 1.5-5.5 mm
- 370 x 314 x 118 mm

PART NO.	DESCRIPTION
OFDC-A4	A) COMMSCOPE OFDC-A4 EXTERNAL FIBRE OPTIC SPLICE/PATCH CLOSURE
OFDC-C12	B) COMMSCOPE OFDC-C12 EXTERNAL FIBRE OPTIC SPLICE/PATCH CLOSURE
OFDC-BG8	C) COMMSCOPE OFDC-BG8 EXTERNAL FIBRE OPTIC SPLICE/PATCH CLOSURE
S83-0115	D) MILLS MOBRA ARM MOUNTING KIT FOR COMMSCOPE OFDC BG-8
S83-5094	E) MILLS MOBRA ARM MOUNTING KIT FOR COMMSCOPE OFDC BG-12
760253871	F) COMMSCOPE UNIVERSAL FTTX BRACKET POLE/CHAMBER

THESE ARE CONFIGURABLE PRODUCTS
Please call sales for further details

UNDERGROUND TOOLS

Mills supply an extensive range of equipment suitable to undertake underground cabling works.

Products include Rodders, Cable Drum Trailers, Cable Stands and Rollers, Cable Drum Jacks, Cable Pushers, Cover Lifters Cabling Guides and much more. All our equipment is designed to increase productivity and safety and to ensure the safe management and handling of underground cables. Here's just a small selection.

For further information and to see the complete range, please visit our website **millsltd.com** or call our highly trained sales staff on **020 8833 2626**

S83-1446
Rod Duct No 1 Ferret Type
3m x 25mm

S00-1355
Mills Cobra Rod and Frame
11mm x 200m

S83-0987
Guide Rod Flexible 3
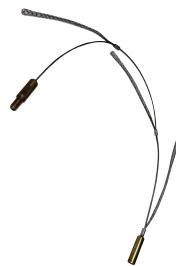
S00-7559
Mills Multisock Cable Grip
6-10mm

S13-1825 - Mills Subduct
Pulling Eye (WUD Carrot /
Grip Threaded)

S13-1633 - Mills Key Joint Box
5M With Magnetic Arms &
Cleaning Key

S00-9770
Mills Drum-Mate

S83-0724
Brush Cylindrical 57mm

S00-1240
Mills Bellmouth No 1

S00-1237
Roller Rope Guiding Surface

S13-1238
Guide Cabling 17A

S83-0767
Mills Clamp Guide 2A

S83-0770
Guide Cabling No 1

S13-1239
Mills Drawrope Dispenser
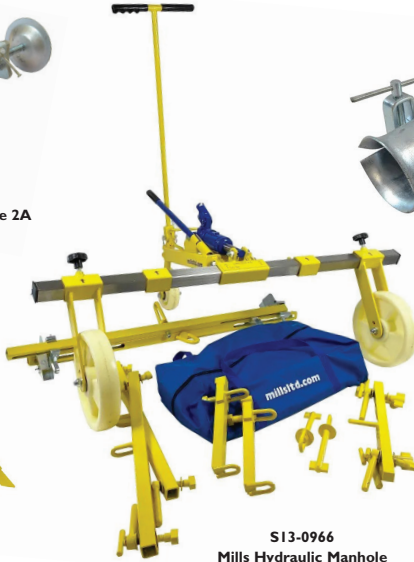
S13-0966
Mills Hydraulic Manhole
Cover Lifter 4C Complete Kit

S83-1847
Easy Lube Steel Bell Mouth
to Suit 76-89mm

S13-1200
24" Cable Drum Stand

C00-3124
3 Tonne Cable Drum Screw
Lifting Jacks (Pair)

S00-6930
Cable Pulling Winch
(Across Pit Frame)

S13-0464
Mills Cable Drum Cones for
Cable A Frame
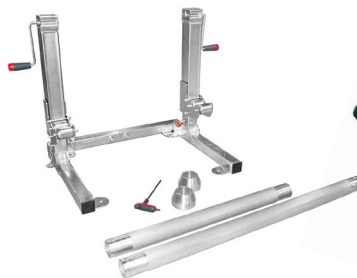
S03-9333
Portable Drum Rack 500kg

S00-5013
Cable Rollers

MILLS FIBRE HAND TOOLS

The Mills range of specialist fibre optic tools, fibre test equipment and fibre cleaning products are well known for quality, ease-of-use and value for money.

Here's just a brief overview of our extensive range. For further information and to see the complete range please visit our website **millsltd.com** or call our highly trained sales staff on **020 8833 2626**

E00-2530
Mills MasterClass Single Hole Fibre Stripper

E00-6912
Mills Fibre Stripper 1A

E00-5004
Mills Kevlar Scissors

E00-6175
Mills MasterClass 5-Way Fibre Optic Stripper

E00-6626
Mills MasterClass Stripper Cable Sheath No 5

E70-5001 - Mills MasterClass Cable Sheath Stripping and Ringing Tool

E00-3819
Mills Stripmate ULW Drop Fibre Cable Stripper

C00-5465
Mills 1310/1550nm Optical Laser Source

B70-6917
Mills Heavy Duty Fibre Optic Toolbag

C05-0061
Mills Fibre Optic Cleaning Kit

C00-7676
Mills Live Fibre Identifier Pro

MILLS GENERAL HAND TOOLS

Over 100 years Mills has built up an extensive range of specialist tooling for the telecommunication industry recognised for high quality, ease-of-use and value for money.

Here's just a brief overview of our extensive range. For further information and to see the complete range please visit our website **millsltd.com** or call our highly trained sales staff on **020 8833 2626**

E00-4720
Mills Masterclass Heavy Duty Diagonal Cutter 160mm

A10-6197 - Fibre Splicer's Kit No.2 in Stanley Fatmax Waterproof Toolbox

E00-1113
Mills MasterClass Cable Cutters for 10.5mm OD

E66-6891
Mills MasterClass Cable Cutter No.1 - 450mm

E22-6386
ECO-TOOLS Mini Side Cutter 115mm (4 1/2")

N70-6372
Mills General Purpose Hacksaw

E22-6585
ECO-TOOLS Mini Saw

E22-2624
ECO-TOOLS Cross Pein Hammer 450g (16oz)

E72-0617
Mills Flush Cutter 125 mm

E00-6177
Mills CATV Coaxial Cable Stripper

S83-0912
Mills Stripper Cable Sheath 8

E65-5463
Mills Scotchlok Crimp Plier

E70-5013
Mills MasterClass RJ45 Ratchet Crimp Tool

C70-6865
Mills MasterClass 110 Versatile Wire Inserter

F70-2884 - Mills MasterClass 7 Piece Professional 1000v Screwdriver Set

H87-7347
Mills VDE 1000V Insulated Cable Shears 200mm

millsltd.com

STANDARD TERMS AND CONDITIONS OF BUSINESS

Mills Ltd. (the Supplier) agrees to supply goods/services to third parties (the Customer) on the following terms and conditions to the exclusion of any other terms and conditions and which may only be varied under the authority in writing of the Supplier. Read this page online at *millsltd.com/terms-conditions*

The customer's attention is drawn in particular to the provisions of clause 10.

1. Interpretation

1.1 Definitions:

Business Day: a day (other than a Saturday, Sunday or public holiday) when banks in London are open for business.

Conditions: the terms and conditions set out in this document as amended from time to time in accordance with clause 12.5.

Contract: the contract between the Supplier and the Customer for the sale and purchase of the Goods in accordance with these Conditions.

Customer: the person or firm who purchases the Goods from the Supplier.

Data Protection Legislation: the UK Data Protection Legislation and (for so long as and to the extent that the law of the European Union has legal effect in the UK) the GDPR and any other directly applicable European Union regulation relating to privacy.

Force Majeure Event: an event or circumstance beyond a party's reasonable control.

GDPR: General Data Protection Regulation (*(EU) 2016/679*).

Goods: the goods (or any part of them) set out in the Order.

Order: the Customer's order for the Goods, as set out in the Customer's written acceptance of the Supplier's quotation.

Specification: any specification for the Goods, including any related plans and drawings, that is agreed by the Customer and the Supplier.

Supplier: Mills Limited (registered in England and Wales with company number 00282704).

UK Data Protection Legislation: any data protection legislation from time to time in force in the UK including the Data Protection Act 1998 or 2018 or any successor legislation.

1.2 Interpretation:

(a) a reference to a statute or statutory provision is a reference to such statute or provision as amended or re-enacted. A reference to a statute or statutory provision includes any subordinate legislation made under that statute or statutory provision, as amended or re-enacted.

(b) any phrase introduced by the terms **including**, **include**, **in particular** or any similar expression shall be construed as illustrative and shall not limit the sense of the words preceding those terms.

(c) a reference to **writing** or **written** includes faxes and emails.

2. Basis of contract

2.1 These Conditions apply to the Contract to the exclusion of any other terms that the Customer seeks to impose or incorporate, or which are implied by trade, custom, practice or course of dealing.

2.2 The Order constitutes an offer by the Customer to purchase the Goods in accordance with these Conditions. The Customer is responsible for ensuring that the terms of the Order and any applicable Specification submitted by the Customer are complete and accurate.

2.3 The Order shall only be deemed to be accepted when the Supplier issues a form of acknowledgement accepting the Order, at which point the Contract shall come into existence. At this time, the Customer shall also ensure it provides the Supplier with full details of the individual whom is authorised to accept service of the delivery. In the event the details of the individual changes, the Customer shall inform the Supplier immediately.

2.4 The Customer waives any right it might otherwise have to rely on any term endorsed upon, delivered with or contained in any documents of the Customer that is inconsistent with these Conditions.

2.5 Any samples, drawings, descriptive matter or advertising produced by the Supplier and any descriptions or illustrations contained in the Supplier's catalogues or brochures are produced for the sole purpose of giving an approximate idea of the Goods referred to in them. They shall not form part of the Contract nor have any contractual force.

2.6 A quotation for the Goods given by the Supplier shall not constitute an offer. A quotation shall only be valid for a period of 30 calendar days from its date of issue.

3. Goods

3.1 The Goods are described in the Supplier's catalogue as modified by any applicable Specification.

3.2 The Customer shall indemnify the Supplier against all liabilities, costs, expenses, damages and losses (including any direct, indirect or consequential losses, loss of profit, loss of reputation and all interest, penalties and legal and other professional costs and expenses) suffered or incurred by the Supplier in connection with any claim made against the Supplier for actual or alleged infringement of a third party's intellectual property rights arising out of or in connection with the Supplier's use of the Specification. This clause 3.2 shall survive termination of the Contract.

3.3 The Supplier reserves the right to amend the Specification if required by any applicable statutory or regulatory requirements.

4. Delivery

4.1 The Supplier shall ensure that:

(a) each delivery of the Goods is accompanied by a delivery note that shows the date of the Order of despatch, all relevant Customer and Supplier reference numbers, the type and quantity of the Goods (including the code number of the Goods, where applicable), special storage instructions (if any) and, if the Goods are being delivered by instalments, the outstanding balance of Goods remaining to be delivered; and

(b) if the Supplier requires the Customer to return any packaging materials to the Supplier, that fact is clearly stated on the delivery note. The Customer shall make any such packaging materials available for collection at such times as the Supplier shall reasonably request. Returns of packaging materials shall be at the Supplier's expense.

4.2 The Supplier shall deliver the Goods to the location set out in the Order or such other location as the parties may agree, including but limited to the Supplier's premises (**Delivery Location**) at any time after the Supplier notifies the Customer that the Goods are ready.

4.3 Delivery is completed on the completion of unloading of the Goods at the Delivery Location.

4.4 Any dates quoted for delivery are approximate only, and the time of delivery is not of the essence. The Supplier shall not be liable for any delay in delivery of the Goods that is caused by a Force Majeure Event or the Customer's failure to provide the Supplier with adequate delivery instructions or any other instructions that are relevant to the supply of the Goods.

4.5 If the Customer fails to accept or take delivery of the Goods within three Business Days of the Supplier notifying the Customer that the Goods are ready, then, except where such failure or delay is caused by a Force Majeure Event or the Supplier's failure to comply with its obligations under the Contract:

(a) delivery of the Goods shall be deemed to have been completed at 5.30pm on the third Business Day after the day on which the Supplier notified the Customer that the Goods were ready; and

(b) the Supplier shall store the Goods until delivery takes place, and charge the Customer for all related costs and expenses (including insurance).

4.6 If four Business Days after the day on which the Supplier notified the Customer that the Goods were ready for delivery the Customer has not accepted delivery of them, the Supplier may resell or otherwise dispose of part or all of the Goods.

4.7 In the event of any deliveries of any cabinets, these will be made to the curb side delivery only (from reception or loading bay only). If the Customer would like two individuals of the Supplier to assist with the delivery, this will be at the cost of the Customer, such cost to be agreed prior to delivery and determined exclusively by the Supplier.

4.8 If the Supplier delivers up to and including 5% more or less than the quantity of Goods ordered the Customer may not reject them.

4.9 The Supplier may deliver the Goods by instalments, which shall be invoiced and paid for separately. Any delay in delivery or defect in an instalment shall not entitle the Customer to cancel any other instalment.

4.10 The Supplier will not be held responsible for any loss or damage to the Goods following completion of delivery to the Customer.

4.11 Where the Supplier uses the services of third party couriers for the delivery of Goods, the Supplier will not be held responsible for any fees incurred by the Customer as a result of a failed delivery of Goods.

4.12 Where the Supplier is able to offer next working day delivery for the delivery of Goods, the Customer must order the Goods:

(a) before 5pm where the order is placed on Monday to Thursday inclusive; or

(b) before 4pm where the order is placed on Friday; or

(c) before 3pm where the order relates to pallet deliveries placed from Monday to Friday inclusive.

5. Quality

5.1 The Supplier warrants that Goods supplied will:

(a) conform in all material respects with their description and any applicable Specification;

(b) be free from material defects in design, material and workmanship; and

(c) be of satisfactory quality (within the meaning of the Sale of Goods Act 1979) and

(d) be fit for any purpose held out by the Supplier.

but no warranty is given for any particular purpose other than the purpose commonly applied or those specified by the manufacturer.

5.2 Subject to clause 5.3, if:

(a) the Customer gives notice in writing to the Supplier during the warranty period within a reasonable time of discovery that some or all of the Goods do not comply with the warranty set out in clause 5.1;

(b) the Supplier is given a reasonable opportunity of examining such Goods; and

(c) the Customer (if asked to do so by the Supplier) returns such Goods to the Supplier's place of business at the Customer's cost,

the Supplier, once having had a reasonable opportunity to inspect the Goods and satisfy themselves they are defective, shall, at its option, repair or replace the defective Goods or refund the price of the defective Goods in full.

5.3 Before any goods are returned to the Supplier in accordance with clause 5.2, the Customer shall obtain a RMA number before returning the goods.

5.4 The Supplier reserves the right to refuse returns without a valid RMA number shown clearly on the exterior of the packaging. In such an event any items received will be returned to the Customer at the cost of the Customer.

5.5 The Supplier shall not be liable for the Goods' failure to comply with the warranty set out in clause 5.1 in any of the following events:

(a) the Customer makes any further use of such Goods after giving notice in accordance with clause 5.2;

(b) the defect arises because the Customer failed to follow the Supplier's oral or written instructions as to the storage, commissioning, installation, use and maintenance of the Goods or (if there are none) good trade practice regarding the same;

(c) the defect arises as a result of the Supplier following any drawing, design or Specification supplied by the Customer;

(d) the Customer alters or repairs such Goods without the written consent of the Supplier;

(e) the defect arises as a result of fair wear and tear, wilful damage, negligence, or abnormal storage or working conditions; or

(f) the Goods differ from their description as a result of changes made to ensure they comply with applicable statutory or regulatory requirements.

5.6 Except as provided in this clause 5, the Supplier shall have no liability to the Customer in respect of the Goods' failure to comply with the warranty set out in clause 5.1.

5.7 The terms implied by sections 13 to 15 of the Sale of Goods Act 1979 are, to the fullest extent permitted by law, excluded from the Contract.

5.8 These Conditions shall apply to any repaired or replacement Goods supplied by the Supplier.

6. Returns

6.1 In the event the Customer needs to return the Goods because of a mistake or negligence on the part of the Customer, the Supplier reserves the right to invoice the Customer in respect of any costs or expenses, whatsoever and howsoever arising together with a handling fee of the higher of £30 or 25% of the total value of the Goods. For such returns, the customer must again request a RMA number prior to returning the Goods and the Goods must not be damaged in any way whatsoever on the sole view of the Supplier, acting reasonably.

6.2 In the event the Customer requests the collection of the Goods of a mistake or negligence on the part of the Customer, the Supplier reserves the right to invoice the customer in respect of any costs or expenses associated with the collection the higher of £15 excluding VAT or such collection fee as the Supplier deems reasonable on their sole view with regard to the collection location and logistical requirements.

6.3 The Supplier will only accept the return or refund of Goods if defective and the provisions of this clause have been satisfied:

1.1.1. Any Goods claimed to be damaged or defective must be returned with the appropriate receipt or evidence of purchase within 3 working days of purchase.

1.1.2. Where it is agreed between the Supplier and Customer that the Goods were defective at the point of sale following an inspection of the Goods by the Supplier, the Supplier shall have the option to repair the Goods in the first instance or shall have the option to replace the Goods. This decision is at the sole discretion of the Supplier.

1.1.3. Where an inspection of Goods requested by the Customer reveals the Goods are in proper working order, the Supplier reserves the right to invoice the Customer £50 excluding VAT for the inspection works undertaken.

7. Title and risk

7.1 The risk in the Goods shall pass to the Customer on completion of delivery.

7.2 Title to the Goods shall not pass to the Customer until the Supplier receives payment in full (in cash or cleared funds) for the Goods and any other goods that the Supplier has supplied to the Customer, in which case title to the Goods shall pass at the time of payment of all such sums;

7.3 Until title to the Goods has passed to the Customer, the Customer shall:

(a) store the Goods separately from all other goods held by the Customer so that they remain readily identifiable as the Supplier's property;

(b) not remove, deface or obscure any identifying mark or packaging on or relating to the Goods;

(c) maintain the Goods in satisfactory condition and keep them insured against all risks for their full price from the date of delivery;

(d) notify the Supplier immediately if it becomes subject to any of the events listed in clause 8.1; and

(e) give the Supplier such information relating to the Goods as the Supplier may require from time to time.

CONTINUED OVERLEAF...

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STANDARD TERMS AND CONDITIONS OF BUSINESS - CONTINUED

7.4 Subject to clause 6.5, the Customer may resell or use the Goods in the ordinary course of its business (but not otherwise) before the Supplier receives payment for the Goods. However, if the Customer resells the Goods before that time:

(a) it does so as principal and not as the Supplier's agent; and

(b) title to the Goods shall pass from the Supplier to the Customer immediately before the time at which resale by the Customer occurs.

7.5 If before title to the Goods passes to the Customer the Customer becomes subject to any of the events listed in clause 9.1, without limiting any other right or remedy the Supplier may have:

(a) the Customer's right to resell the Goods or use them in the ordinary course of its business ceases immediately;

(b) the Supplier may at any time:

(i) require the Customer to deliver up all Goods in its possession that have not been resold, or irrevocably incorporated into another product; and

(ii) if the Customer fails to do so promptly, enter any premises of the Customer or of any third party where the Goods are stored in order to recover them.

7.6 Title to any Goods returned to the Supplier following a request for inspection by the Customer where believed the Goods be faulty will pass back to the Supplier.

7.7 The Supplier recommends that all Goods should be unpacked and inspected prior to the Customer signing the delivery note. The Customer warrants that signature of the delivery note confirms that all the Goods noted on the delivery note have been delivered and received in good working order. A signed delivery note corresponding to the Customer's delivery address completes the delivery and the risk for the Goods will pass to the Customer.

8. Price and payment

8.1 The price of the Goods shall be the price set out in the Order, or, if no price is quoted, the price set out in the Supplier's published price list in force as at the date of delivery. The Supplier may, by giving notice to the Customer at any time 3 Business Days before delivery, increase the price of the Goods to reflect any increase in the cost of the Goods that is due to:

(a) any factor beyond the Supplier's control (including foreign exchange fluctuations, increases in taxes and duties, and increases in labour, materials and other manufacturing costs);

(b) any request by the Customer to change the delivery date(s), quantities or types of Goods ordered, or the Specification; or

(c) any delay caused by any instructions of the Customer or failure of the Customer to give the Supplier adequate or accurate information or instructions.

8.2 The price of the Goods:

(a) excludes amounts in respect of value added tax (**VAT**), which the Customer shall additionally be liable to pay to the Supplier at the prevailing rate, subject to the receipt of a valid VAT invoice; and

(b) excludes the costs and charges of packaging, insurance and transport of the Goods, which shall be invoiced to the Customer.

8.3 The Supplier may invoice the Customer for the Goods on or at any time after the completion of delivery.

8.4 The Customer shall pay the invoice in full and in cleared funds within 30 days of the date of the invoice. Payment shall be made to the bank account nominated in writing by the Supplier. Time for payment is of the essence. If the Customer fails to make any payment due to the Supplier under the Contract by the due date for payment, then the Customer shall pay interest on the overdue amount at the rate of 8% per annum above Lloyds Bank base rate from time to time. Such interest shall accrue on a daily basis from the due date until actual payment of the overdue amount, whether before or after judgment. The Customer shall pay the interest together with the overdue amount.

8.5 The Customer shall pay all amounts due under the Contract in full without any set-off, counterclaim, deduction or withholding (except for any deduction or withholding required by law). The Supplier may at any time, without limiting any other rights or remedies it may have, set off any amount owing to it by the Customer against any amount payable by the Supplier to the Customer.

9. Termination

9.1 Without limiting its other rights or remedies, the Supplier may terminate this Contract with immediate effect by giving written notice to the Customer if:

(a) the Customer commits a material breach of any term of the Contract and (if such a breach is remediable) fails to remedy that breach within 5 days of that party being notified in writing to do so;

(b) the Customer takes any step or action in connection with its entering administration, provisional liquidation or any composition or arrangement with its creditors (other than in relation to a solvent restructuring), being wound up (whether voluntarily or by order of the court, unless for the purpose of a solvent restructuring), having a receiver appointed to any of its assets or ceasing to carry on business or, if the step or action is taken in another jurisdiction, in connection with any analogous procedure in the relevant jurisdiction;

(c) the Customer suspends, threatens to suspend, ceases or threatens to cease to carry on all or a substantial part of its business; or

(d) the Customer's financial position deteriorates to such an extent that in the Supplier's opinion the Customer's capability to adequately fulfil its obligations under the Contract has been placed in jeopardy.

(e) The Supplier, acting reasonably, is unable to fulfil the Order.

9.2 Without limiting its other rights or remedies, the Supplier may suspend provision of the Goods under the Contract or any other contract between the Customer and the Supplier if the Customer becomes subject to any of the events listed in clause 9.1 (a) to clause 9.1 (d), or the Supplier reasonably believes that the Customer is about to become subject to any of them, or if the Customer fails to pay any amount due under this Contract on the due date for payment.

9.3 Without limiting its other rights or remedies, the Supplier may terminate the Contract with immediate effect by giving written notice to the Customer if the Customer fails to pay any amount due under the Contract on the due date for payment.

9.4 On termination of the Contract for any reason the Customer shall immediately pay to the Supplier all of the Supplier's outstanding unpaid invoices and interest.

9.5 Termination of the Contract shall not affect any of the parties' rights and remedies that have accrued as at termination, including the right to claim damages in respect of any breach of this Contract that existed at or before the date of termination.

9.6 Any provision of the Contract that expressly or by implication is intended to come into or continue in force on or after termination shall remain in full force and effect.

10. Limitation of liability

10.1 Nothing in these Conditions shall limit or exclude the Supplier's liability for:

(a) death or personal injury caused by its negligence, or the negligence of its employees, agents or subcontractors (as applicable);

(b) fraud or fraudulent misrepresentation;

(c) breach of the terms implied by section 12 of the Sale of Goods Act 1979; [or]

(d) defective products under the Consumer Protection Act 1987[; or]

(e) any matter in respect of which it would be unlawful for the Supplier to exclude or restrict liability.

10.2 Subject to clause 9.1:

(a) the Supplier shall under no circumstances whatsoever be liable to the Customer, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, for any loss of profit, or any indirect or consequential loss arising under or in connection with the Contract; and

(b) the Supplier's total liability to the Customer in respect of all other, save for matters arising from environmental matters where the Customer accepts liability, losses arising under or in connection with the Contract, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, shall in no circumstances exceed the price of the Goods.

10.3 Customers have a duty to use/operate all Goods supplied in accordance with manufacturers instructions for safe use and to ensure that such instructions are made readily available prior to the use of the Good by any individual.

11. Force majeure

Neither party shall be in breach of this Contract nor liable for delay in performing, or failure to perform, any of its obligations under this Contract if such delay or failure result from a Force Majeure Event. If the period of delay or non-performance continues for 4 weeks, the party not affected may terminate this Contract by giving 2 weeks written notice to the affected party.

12. General

12.1 Assignment and other dealings.

(a) The Supplier may at any time assign, transfer, mortgage, charge, subcontract or deal in any other manner with all or any of its rights or obligations under the Contract.

(b) The Customer may not assign, transfer, mortgage, charge, subcontract, declare a trust over or deal in any other manner with any or all of its rights or obligations under the Contract without the prior written consent of the Supplier.

12.2 Confidentiality.

(a) Each party undertakes that it shall not at any time disclose to any person any confidential information concerning the business, affairs, customers, clients or suppliers of the other party or of any member of the group to which the other party belongs, except as permitted by clause 12.2 (b). For the purposes of this clause, **group** means, in relation to a party, that party, any subsidiary or holding company from time to time of that party, and any subsidiary from time to time of a holding company of that party.

(b) Each party may disclose the other party's confidential information:

(i) to its employees, officers, representatives or advisers who need to know such information for the purposes of exercising the party's rights or carrying out its obligations under or in connection with this agreement. Each party shall ensure that its employees, officers, representatives or advisers to whom it discloses the other party's confidential information comply with this clause 12.2; and

(ii) as may be required by law, a court of competent jurisdiction or any governmental or regulatory authority.

(c) No party shall use any other party's confidential information for any purpose other than to exercise its rights and perform its obligations under or in connection with this agreement.

12.3 Trademark: The Customer shall not tamper with, alter the face or remove any of the names, logos or marks affixed to or marked on the goods or allow anyone else to do so. All Trademarks are acknowledged and belong to the Seller.

12.4 Entire agreement.

(a) This Contract constitutes the entire agreement between the parties and supersedes and extinguishes all previous agreements, promises, assurances, warranties, representations and understandings between them, whether written or oral, relating to its subject matter.

(b) Each party agrees that it shall have no remedies in respect of any statement, representation, assurance or warranty (whether made innocently or negligently) that is not set out in this agreement. Each party agrees that it shall have no claim for innocent or negligent misrepresentation or negligent misstatement based on any statement in this agreement.

12.5 Mills Limited web account Customers will receive a password and account number upon completion of the registration process. All such information provided is confidential to the Customer and must not be shared with anyone whom is not the Customer or the Supplier. The Customer agrees to indemnify the Supplier of any unauthorised use of the password or account number and any other breach of security.

12.6 The Customer shall also ensure they sign out of their Mills Limited web account after every session and agrees to indemnify the Supplier of any unauthorised use of the password or account number and any other breach of security.

12.7 Variation. No variation of this Contract shall be effective unless it is in writing and signed by the parties (or their authorised representatives).

12.8 Waiver. No failure or delay by a party to exercise any right or remedy provided under the Contract or by law shall constitute a waiver of that or any other right or remedy, nor shall it prevent or restrict the further exercise of that or any other right or remedy. No single or partial exercise of such right or remedy shall prevent or restrict the further exercise of that or any other right or remedy.

12.9 Severance. If any provision or part-provision of the Contract is or becomes invalid, illegal or unenforceable, it shall be deemed modified to the minimum extent necessary to make it valid, legal and enforceable. If such modification is not possible, the relevant provision or part-provision shall be deemed deleted. Any modification to or deletion of a provision or part-provision under this clause shall not affect the validity and enforceability of the rest of the Contract.

12.10 Notices.

(a) Any notice or other communication given to a party under or in connection with the Contract shall be in writing, addressed to that party at its registered office (if it is a company) or its principal place of business (in any other case) or such other address as that party may have specified to the other party in writing in accordance with this clause, and shall be delivered personally, sent by pre-paid first class post or other next working day delivery service, commercial courier, or fax.

(b) A notice or other communication shall be deemed to have been received: if delivered personally, when left at the address referred to in clause 12.7 (a)); if sent by pre-paid first class post or other next working day delivery service, at 9.00 am on the second Business Day after posting; if delivered by commercial courier, on the date and at the time that the courier's delivery receipt is signed; or, if sent by fax, one Business Day after transmission.

(c) The provisions of this clause shall not apply to the service of any proceedings or other documents in any legal action.

12.11 Third party rights. No one other than a party to this Contract shall have any right to enforce any of its terms.

12.12 Governing law. The Contract, and any dispute or claim (including non-contractual disputes or claims) arising out of or in connection with it or its subject matter or formation, shall be governed by and construed in accordance with the law of England and Wales.

12.13 Jurisdiction. Each party irrevocably agrees that the courts of England and Wales shall have exclusive jurisdiction to settle any dispute or claim (including non-contractual disputes or claims) arising out of or in connection with this Contract or its subject matter or formation.

13. Data protection and data processing

13.1 Both parties will comply with all applicable requirements of the Data Protection Legislation. This clause 13 is in addition to, and does not relieve, remove or replace, a party's obligations under the Data Protection Legislation. In this clause13, **Applicable Laws** means (for so long as and to the extent that they apply to the Supplier) the law of the European Union, the law of any member state of the European Union and/or Domestic UK Law; and **Domestic UK Law** means the UK Data Protection Legislation and any other law that applies in the UK.

13.2 The parties acknowledge that for the purposes of the Data Protection Legislation, the Customer is the data controller and the Supplier is the data processor (where Data Controller and Data Processor have the meanings as defined in the Data Protection Legislation).

Meet The Team

millsltd.com

There's a **Mills Business Development Manager** covering pretty much everywhere in the UK and Ireland, offering technical support and advice to operators and contractors.

Elliot Mills
Business Development Director

Elliot joined Mills in 2015, as the fourth generation of the business and now heads up the Business Development team. He is always dedicated to providing a solution for any issues that are thrown his way and is a big believer in teamwork makes the dreamwork!
elliot.mills@millsltd.com

Ben Molloy
Business Development Manager

Irishman Ben joined Mills in September 2021 as an internal sales account manager. He has since moved into the Business Development role, with a focus on Fremco fibre blowing machines, of which Mills is the exclusive partner for the UK and Ireland.
ben.molloy@millsltd.com

Elizabeth Bell
Business Development Manager

Lizzy joined Mills in 2019 as an Internal Sales Account Manager. Since then, she has developed a wide range of knowledge within telecoms and has now grown into the Business Development role. She has a passion for ensuring her customers enjoy a smooth and reliable service at all times. She thrives on keeping her diary full of meetings!
elizabeth.bell@millsltd.com

Katie Sankhalpara
Business Development Manager

Katie joined Mills in 2010, when copper was the core of the UK network build. Since then, she has been at the forefront of building knowledge in FTTx and supporting CP's and contractors in the push for Gigabit Britain. She loves travelling and plans to visit Costa Rica, country number 40 for her!

katie.sankhalpara@millsltd.com

Rob Carty
Business Development Manager

Rob started with Mills at the beginning of 2020 and looks after our ISP and Contractor customers. He is also a Fremco fibre blowing machine specialist. At the weekend he enjoys playing football and golf and loves the occasional ski holiday.

robert.carty@millsltd.com

Megan Holdship
Business Development Manager

Megan joined Mills at the beginning of 2021 and has not looked back since. She started in internal sales and was promoted to Business Development Manager at the beginning of 2023. Megan works alongside our Contractor and ISP customers. She loves reading and her sausage dog, Baxter!

megan.holdship@milldsltd.com

Whatever we can do to help, be it a fibre blowing machine demonstration, special project pricing support, product development and sourcing, help with putting together a customised tool kit, advice on PIA approved overhead and underground installations, help with smart energy installations or simple product information, this is the team to call.

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