Aerial Subscriber Node

HEXATRONIC

PRODUCT OVERVIEW

The Aerial Subscriber Node is a compact and secure solution for installing pre-terminated drop cables for FTTX applications.

The Node is developed to provide a separation between network build and the customer drop. Housing the drop connectors within the Aerial node ensures that optical connectivity is both cost effective and secure.

Optimised for fast deployment, the closure can be supplied as standalone unit ready for splicing or as a Pre-tailed closure ready for faster rollouts.
Pre-terminated connectorised drop cables can then be installed at a later date without the risk of access to the delicate 250um fibres. Up to 24 drop cable customer connections can be offered from a single enclosure.

FEATURES AND BENEFITS

- Impact resistant enclosure
- High Quality Hinge Mechanism
- Durable Sealing Clips
- Separation of spliced feeder cable from connectorised drop cables
- Up to 24 customer connections
- 4 x Multifibre entry Ports
- 24x Drop cable Ports
- IP55
- Secure, tamper proof cover
- Physical separation of Splicing area and Customer Drop Connections
- Pole or building facade mounting features
- Low profile
- Range of colours

SPECIFICATIONS

Model No	FCLW-ASN		
Connection Type	SC or LC		
Dimensions	146 W x 308 H x 78 D mm		
Maximum Cable Capacity	144F Storage	24F Splice	24F Patch
Cable Dimensions	5-14mm Input	3-5mm Drop	

| PART NUMBERS	DESCRIPTION
FCLW-ASN-B-P06-ALC	Aerial Distribution Node B, LC/APC, 6F Patch Only, Incl Rear Mandrel
FCLW-ASN-B08-1X8-ALC	Aerial Distribution Node B, LC/APC, (1)1:8 Splitter, Incl Rear Mandrel
FCLW-ASN-B16-1X8-ALC	Aerial Distribution Node B, LC/APC, (2)1:8 Splitter, Incl Rear Mandrel
FCLW-ASN-B24-1X8-ALC	Aerial Distribution Node B, LC/APC, (3)1:8 Splitter, Incl Rear Mandrel
FCLW-ASN-B-P8-ALC-PIG	Aerial Distribution Node B, LC/APC, 8 x ALC Pigtail, Incl Rear Mandrel
FCLW-ASN-B-P12-ALC-PIG	Aerial Distribution Node B, LC/APC, 12 x ALC Pigtail, Incl Rear Mandrel
FCLW-ASN-B-P16-ALC-PIG	Aerial Distribution Node B, LC/APC, 16 x ALC Pigtail, Incl Rear Mandrel
FCLW-ASN-B-P24-ALC-PIG	Aerial Distribution Node B, LC/APC, 24 x ALC Pigtail, Incl Rear Mandrel

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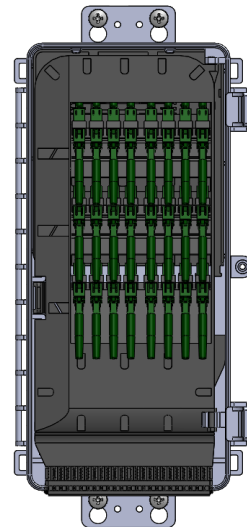## DIMENSIONS

308 mm

146 mm

78mm
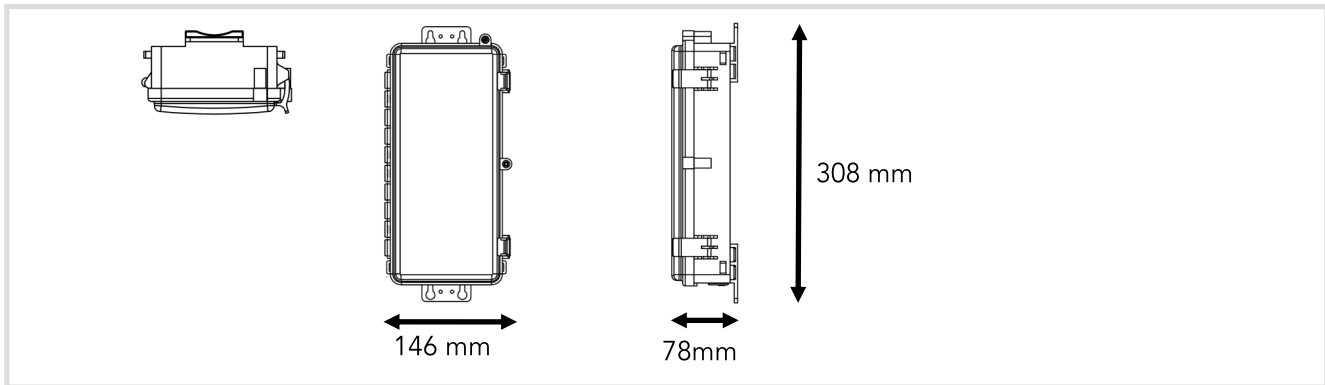
Trunk Splice area with under cassette Midspan storage
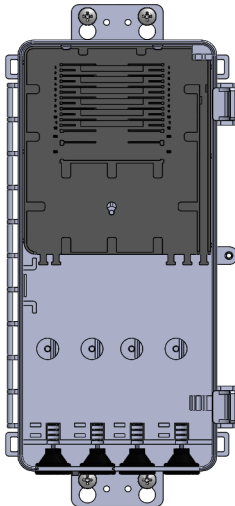
Hinged Patch Plate Underside Housing Splitter Modules
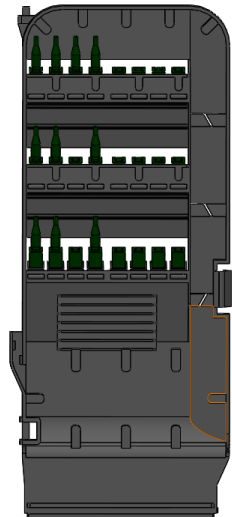
Customer Drop Patch Interface

ACCESSORIES

POLE MOUNTING BRACKET

The ASN pole mounting bracket is developed for use with the Aerial Subscriber Node. The bracket offers a second anchoring point for the feeder cable and excess cable storage for up to ten metres of ultra-lightweight cable.

- Dimensions (MM): D 74 x W 149 x H 329

- Material: Powder Coated Stainless Steel

- Colour: Black

PART NUMBER: FCLW-ASN-BKT-001

PRODUCT OVERVIEW

The CTB is a universal external enclosure that has been developed for discrete and functional FTTP customer deployments. With the ability to accommodate Splice only or Splice and patch, it's simple to install future proof infrastructure. The Box is a High Quality ABS housing that can be supplied in many colours such as White, Black, Grey and Brown. Also available with custom branding. Internally the Box comes equipped with a Fibre storage Module and a Customer patch plate that houses the Fibre optic Patch.
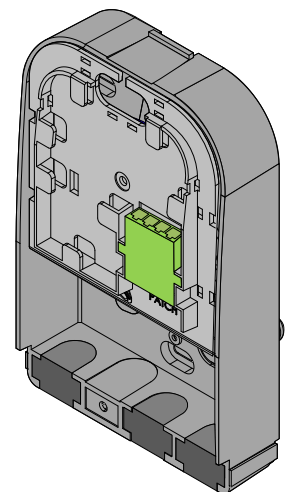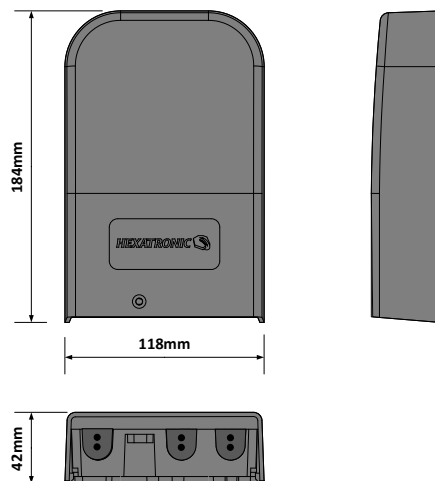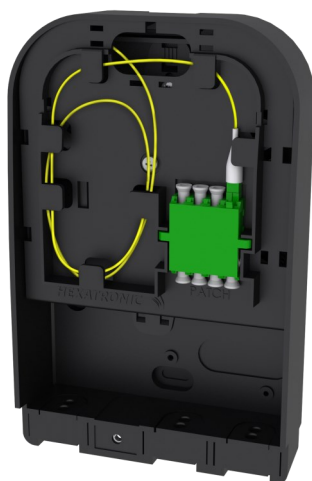
APPLICATIONS

- Future proof FTTP deployments

FEATURES

- Compact / Discrete
- Cost Effective
- Multifunctional
- Impact Resistant

SPECIFICATIONS

Dimensions	44 mm D x 118mm W x 184mm H
Weight	Approximately 0.2g
Mounting	Wall mounting - Screw Fixtures
Material	PC/ ABS
Minimum bend radius	30mm
Feeder Ducts	Up to 25mm

PART NUMBER VARIATIONS

FAMILY	PRODUCT	LOGO	PATCH/SPLICE	CONNECTOR	COLOUR
FCLC	CTB	PLN	PO1 (1 x Patch)	ASC	BK
FCLC	CTB	PLN	PO2 (2 x Patch)	USC	BK
FCLC	CTB	PLN	CO1 (1 x Patch/Splice)	ALC	BK
FCLC	CTB	PLN	CO2 (2 x Patch/Splice)	ULC	GY

*Custom Branding Available

Example Part Number: **FCLC-CTB-PLN-PO1-ALC-BK** (CTB-BOX-PLAIN-1 x PATCH (1 x Subscriber)-ALC-BLACK)

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PRODUCT OVERVIEW

The Hexatronic External FTTX Drop Cable meets the requirements of external fibre optic distribution requirements, with a rugged crush resistant jacket. The drop cables offer a compact and rugged option for fibre delivery to subscribers.
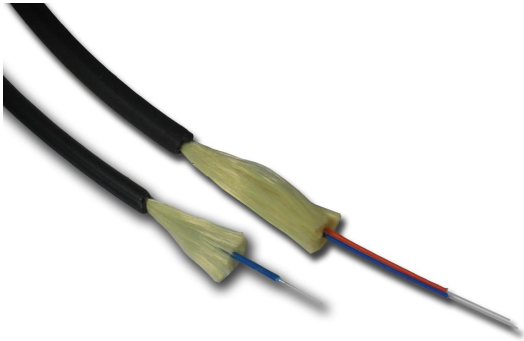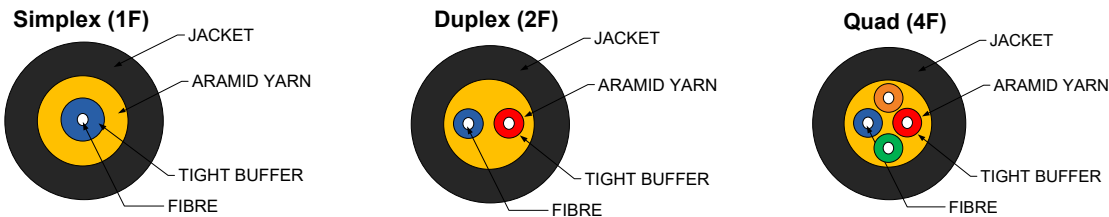
FEATURES

- ITU-T G.657A Bend Insensitive Fibre
- Tight Buffered
- Up to 4 Cores
- Non Metallic Cable
- UV Stabilised Jacket
- Meets IEC and ITU-T Standards
- RoHS Compliant

APPLICATIONS

- External FTTH Deployments
- Aerial self supporting drop
- Clipped to external wall

MAXIMUM BREAKING LOAD - < 1600N

Simplex (1F)
- JACKET
- ARAMID YARN
- TIGHT BUFFER
- FIBRE

Duplex (2F)
- JACKET
- ARAMID YARN
- TIGHT BUFFER
- FIBRE

Quad (4F)
- JACKET
- ARAMID YARN
- TIGHT BUFFER
- FIBRE

1. CONSTRUCTION

The specification covers the general and construction requirements for the Hexatronic FTTH Drop Cables. The optical fibre shall be a tight buffered fibre and surrounded with one layer of reinforcing aramid yarn. The coloured jacket shall be extruded over the aramid yarn.

A. TIGHT BUFFER

Material :   Flame Retardant Halogen Free Poly-olefin (PO)

Diameter:

1C	2C	4C
900µm ± 50µm	600µm ± 50µm	

Colour:

#1	#2	#3	#4
BLUE	ORANGE	GREEN	RED

B. STRENGTH MEMBER

Material :   Water Swellable Aramid Yarn

Cable Type	Fibre Count	Buffer Dia. (μm)	Outer Sheath Thick. (mm)	Outer Sheath Dia. (mm)	Core Dia. (μm)	Clad Dia. (μm)	Coat Dia. (μm)	Tensile Load (N) 1285~1330(nm)	Tensile Load (N) 1550 (nm)	Ap-prox.* Cable Weight (kg/km)	Tensile Load (N) In-stalling	Tensile Load (N) Operating	Min Bend Radi (mm)	Attenuatiuon (dB/km) 1310nm	Attenuatiuon (dB/km) 1550nm
SM G.657A2 Drop-1C	1	900±100	0.7±0.3	3.0±0.3	8.6±0.4	125±1	242±7	3.5⬚	18⬚	8	500	200	15	0.4	0.3
SM G.657A2 Drop-2C	2	600±100	0.8±0.3	3.5±0.3	8.6±0.4	125±1	242±7	3.5⬚	18⬚	11	500	200	20	0.4	0.3
SM G.657A2 Drop-4C	4	600±100	0.8±0.3	3.5±0.3	8.6±0.4	125±1	242±7	3.5⬚	18⬚	11	500	200	20	0.4	0.3

Simplex (1F) JACKET, ARAMID YARN, TIGHT BUFFER, FIBRE

Duplex (2F) JACKET, ARAMID YARN, TIGHT BUFFER, FIBRE

Quad (4F) JACKET, ARAMID YARN, TIGHT BUFFER, FIBRE
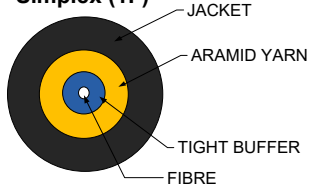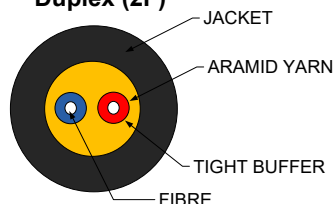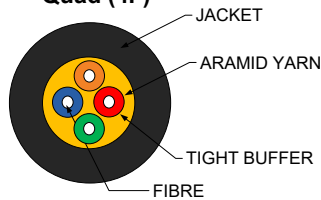
Temperature range

1.Installing :-10~+60

2.Operating :-40~+70

PART NUMBERS	DESCRIPTION
FCAT-CDX-SM7L35-BLK-01KM	Drop cable - 2f - 3.0mm - G657 - TPU - 2 x 600um - Black - 1km box
FCAT-CQX-SM7L35-BLK-01KM	Drop cable - 4f - 3.0mm - G657 - TPU - 4 x 600um - Black - 1km box
FCAT-CSX-SM7L30-BLK-1K	Drop cable - 1f - 3.0mm - G657 - TPU - 1 x 600um - Black - 1km box

PRODUCT OVERVIEW

The Hexatronic light weight metallic aerial self support cable is constructed as a tubular design that is substantially lighter than traditional Loose Tube aerial fibre cables. Reducing the cables weight facilitates the use of existing telephony poles. With the same characteristics as a traditional drop cable the light weight self supporting cable can be used without the need for surveys, planning and remedial civil works. This makes it possible to roll out networks swiftly and efficiently on existing telecom and utility infrastructure.

APPLICATIONS

- FTTX Backbone Aerial Fibre
- Rural Broadband and SDU Deployments
- Direct Bury and Sub-Duct Routing
- ITU-T G.657A2 or A1
- Small Diameter
    - 48F = 7mm
- Metallic Self Support Cable
- Round Construction
- Suitable for existing Poles and Hardware
- Light Weight

CONSTRUCTION

The mechanical construction of the Hexatronic Aerial cable is based around a weatherproof and UV stable black polyethylene jacket. This jacket is extruded over brass plated steel strength elements.

Within the extruded PE jacket, individual 12F subunits of 250um fibre are located along with water blocking elements to prevent any water penetration.
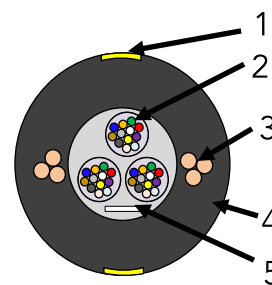
1. Yellow Identification Stripe
2. 12F Subunits
3. Steel Strength Members
4. Cable Jacket
5. Water Blocking Tape

MECHANICAL PERFORMANCE			
		12 FIBRE	24-36 FIBRE
Temperature Range	Transport & Storage	-30 / +70°C	
	Installation	-20 / +50°C	
	Operation	-30 / +70°C	
Tensile Strength (N)		1250 Short Term / 650 Long Term	1250 Short Term / 650 Long Term
Maximum Breaking Load (N)		1800	
Crush resistance (N)		2000	
Minimum bending radius (mm)		60	70
Standard Packaging		2, 4, 6 or 8km per drum	
Nominal Diameter (mm)		6.0	7.0
Nominal weight (kg/km)		<28	<35
Marking of outer sheath		Manufacturing year & week – fibre count & type – part number + metric	

PART NUMBERS	DESCRIPTION
FCAU-H4036001/12-1	Universal cable - Ultra lightweight - Plain - 12f - 1000m Drum
FCAU-H4036001/12-2	Universal cable - Ultra lightweight - Plain - 12f - 500m Drum
FCAU-H4036001/12-3	Universal cable - Ultra lightweight - Plain - 12f - 2000m Drum
FCAU-H4036001/12-4	Universal cable - Ultra lightweight - Plain - 12f - 4000m Drum
FCAU-H4036001/24-1	Universal cable - Ultra lightweight - Plain - 24f - 1000m Drum
FCAU-H4036001/24-2	Universal cable - Ultra lightweight - Plain - 24f - 500m Drum
FCAU-H4036001/24-3	Universal cable - Ultra lightweight - Plain - 24f - 2000m Drum
FCAU-H4036001/24-4	Universal cable - Ultra lightweight - Plain - 24f - 4000m Drum
FCAU-H4036001/36-1	Universal cable - Ultra lightweight - Plain - 36f - 1000m Drum
FCAU-H4036001/36-2	Universal cable - Ultra lightweight - Plain - 36f - 500m Drum
FCAU-H4036001/36-3	Universal cable - Ultra lightweight - Plain - 36f - 2000m Drum
FCAU-H4036001/36-4	Universal cable - Ultra lightweight - Plain - 36f - 4000m Drum
FCAU-H4036001/48-1	Universal cable - Ultra lightweight - Plain - 48f - 1000m Drum
FCAU-H4036001/48-2	Universal cable - Ultra lightweight - Plain - 48f - 500m Drum
FCAU-H4036001/48-3	Universal cable - Ultra lightweight - Plain - 48f - 2000m Drum
FCAU-H4036001/48-4	Universal cable - Ultra lightweight - Plain - 48f - 4000m Drum

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7MM SPIRAL CLAMP

Hexatronic Aerial Spiral anchors are constructed from hot dipped galvanized steel. This cost-effective fixation method is used for fibre optic cables for short span (180m max).

Additional accessories : Eyebolts, extension arms and universal clamps can be ordered separately

- PIA Cable Deployments of ULW cable
- Span :< 180m
- Cable Type: Round FO cable
- Product Type : Spiral anchor

SPECIFICATIONS	
Dimensions	60 H x 4 W cm
Weight	200 g
Material	Steel
Finish	Galvanized steel with high friction coating

FCAX-ASF068-072

SUBSCRIBER DROP CLAMP

Cost effective drop cable clamp for use with Hexatronic FTTP Aerial Subscriber up to 5mm in diameter.

The unique construction allow standard cables and pre-terminated cables to be quickly deployed without tools.

Drop cable clamps can be attached to a BT pole header and a simple ring

- FTTH customer drop clamping
- Pole mounted cables
- Customer mounted drop cables

- Low cost
- High strength
- Can be used on hook or closed loop
- Non corrosion

FCAX-FIX-DRP-TLS-35F

FTTH DROP CLAMP

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. It includes a built-in cable tie to secure the drop cable and open bail to secure it directly on pole fittings. It is made out of UV resistant thermoplastic for a guaranteed lifespan of a minimum 25 years.

- Monobloc, compact and cost-efficient design.
- Simple, fast and tool-less installation.
- Integrated cable tie to secure the cable to the body.
- Suitable for general drop cables with a flexible outer insulating sheath Ø3-4mm.

- Direct installation on mounting hardware Ø10mm min.
- Cables 3-4 mm
- Weight 0.03kg

FCAX-ACRDC3-6

ANCHORING AND CONNECTION CLAMP

The anchoring clamps AC35L and AC68L have a conical body, a pair of wedges and a flexible lease. All parts are secured together. Various lease lengths are available to meet the application requirements, or as an anchoring clamp or as a drop clamp.

FCAX-AC35L-360

FCAX-ACA-AC68L

MODEL	CAPACITY (MM)	BAIL LENGTH (MM)	ULTIMATE TENSILE STRENGTH (daN*)
AC35L 140		140	
AC35L 260	3-6	260	300
AC35L 360		360	
AC68L 140		140	
AC68L 260	6-9	260	450
AC68L 360		360	

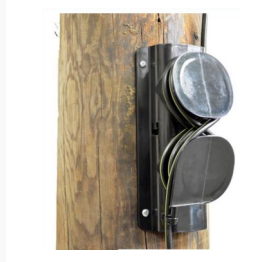## 36F ULTRA-LIGHT WEIGHT OVERHEAD CABLE STRIPPER

The OPT stripper has a profiled cassette that slits the sheath on a 36f Ultra-Light Weight (ULW) Overhead Cable -7mm diameter with a 2mm sheath wall thickness (typically as supplied by Prysmian). Each cassette contains a single rotatory blade which is located on the handle mechanism, as a pair the blades are diametrically opposite each other. These blades cut through the outer sheath to expose the individual cable elements, ideally using the yellow stripe(s) as a guide to prevent the blades coming in contact with the strength members.

A profiled roller is located either side of the rotary blade to ensure the internal cable elements are not damaged during the stripping operation. The handle locking mechanism ensures the stripper remains closed during the sheath stripping operation. A wrist strap and user instructions are supplied with each stripper. Overall Dimensions (w x h x d) – 210 x 67 x 36mm (including cassette)

FOTX-T0158

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FIBRE LOCKING MECHANISM

- Fibre Locking Mechanism for Ultra-Lightweight Overhead Cables
- The Fibre Locking Mechanism (FLM) is a locking mechanism essential for 'loose' jacketed element or elements in an overhead cable. The FLM 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).
- The FLM attaches to a wooden pole with 4 fixing screws. A number of FLMs can be fitted on a pole in line and is designed to form a 'bridge' over other cables fitted to a pole.

- Overall Dimensions (w x h x d) – 100 x 215 x 75mm

FCAX-T0116

TRIANGULAR DROPWIRE BRACKET

TRIANGULAR BRACKET 22

- Galvanised steel bracket
- For attaching wires to poles or walls
- Screw directly to the fascia board of a house roof
- (W)60mm x (L)84mm Fixing Holes 8mm

FCAX-TRI-BRKT-22

EXTENDED DROPWIRE BRACKET

EXTENDED BRACKET 32

- Galvanised steel bracket with extended eye
- Designed to negotiate the overhang of the roof
- Enables communication lines to be routed from the pole down to the building via the bracket
- (W)76mm x (L)76mm Fixing Holes 8mm

FCAX-EXT-ARM-32

ANCHORING AND CONNECTION CLAMP

- M6-Eyebolt made by hot forge
- Sleeve Tube: Dia. 8 mm X 35 mm Length X 0.7 mm
- Thickness Hex Nut: Din934 standard
    - M6 Flat Washer: Din9021 standard
   - M6 Cone Nut: M6 X Dia.8mm X 9mm Length

ENFF-EX-EYE-BOLT-8/10MM

EXPANDING EYEBOLT

- Expanding Eyebolt 2A
- Hole Size: 16mm
- Overall Length: 127mm
- Ring Diameter: 14mm (ID)
- Thread Depth: 95mm
- Thread Size: M10

- UOM - Each
- Hole size required: 1A = 8-10mm x 50mm deep
- Hole size required: 2A = 16mm x 95mm deep

ENFF-EX-EYE-BOLT-16MM

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PRE TERMINATED DROP CABLES

10mm

LC/APC

3mm Drop cable

LC/APC

SHORT
BOOT
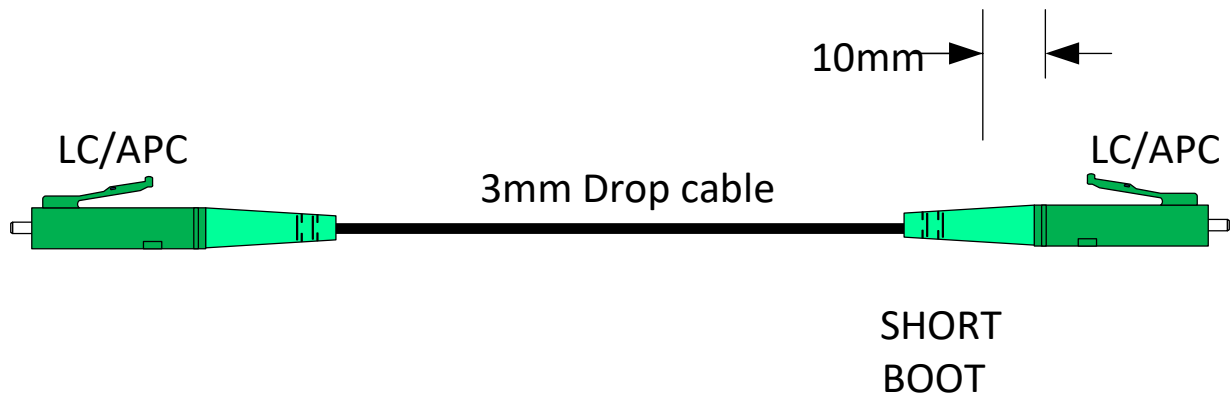
PART NUMBERS	DESCRIPTION
FTACS01-S730-ALCALC-M005X	DROP CABLE - SM - 3MM - ALC-ALC - G657 - 05m - BLACK
FTACS01-S730-ALCALC-M010X	DROP CABLE - SM - 3MM - ALC-ALC - G657 - 10m - BLACK
FTACS01-S730-ALCALC-M015X	DROP CABLE - SM - 3MM - ALC-ALC - G657 - 15m - BLACK
FTACS01-S730-ALCALC-M020X	DROP CABLE - SM - 3MM - ALC-ALC - G657 - 20m - BLACK
FTACS01-S730-ALCALC-M025X	DROP CABLE - SM - 3MM - ALC-ALC - G657 - 25m - BLACK
FTACS01-S730-ALCALC-M050X	DROP CABLE - SM - 3MM - ALC-ALC - G657 - 50m - BLACK
FTACS01-S730-ALCALC-M100X	DROP CABLE - SM - 3MM - ALC-ALC - G657 - 100m - BLACK

We offer advice and technical support

Hexatronic are always ready to answer your questions regarding ordering, installation or technical support. Contact us at **info@hexatronic.co.uk**, or visit **www.hexatronic.co.uk** for general enquiries.

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