# CFSDU-H4036011-xxCF-x



# **Ultra-Lightweight Aerial Cable**

### **Product Overview**

The Hexatronic Ultra-Lightweight cable range is designed for aerial installations for fibre access networks.

As a secondary application the cable can also be installed underground in ducts. The cables are designed to fulfil all requirements to be installed in the British Telecom overhead and underground environments.

## Design

The cables are of loose tube design with bend resistant G657A1 fibres organised in 4, 8 or 12 fibre miniature loose tubes depending on cable fibre count. This design gives an excellent bend performance and a extremely wide operational temperature range.

The unique miniature loose tubes also provide superior cable preparation and handling properties both for termination and midspan access scenarios.

Water swellable elements are used to make the cable design longitudinally watertight. Two 3x0.32mm brass coated steel wires are used as strength members. The design makes it possible to control the breaking force of the cable so that the cable will break only when a certain load is reached.

### Features

- Up to 48f
- Super lightweight and durable design based on unique miniature loose tubes
- For aerial or duct installations
- Bend resistant G657A1 fibres
- Dry design with longitudinal water tightness
- Suitable for use with a minimum vertical separating distance of 1.8m from 11kv
- Controlled tensile breaking force for maximum security, less than 2000N
- 7mm cable diameter

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# **Typical Data**

Temperature range:

Operation	20 to +60°C
Storage	30 to +70°C
Handling	15 to +50°C

Bend radius*	30mm
Tensile force (break)*	1350-2000N
Crush resistance*	2kN
Crush resistance**	2kN/100mm
- · ·	-
Torsion*	Pass
I orsion* Impact resistance*	
	>10Nm

#### Cable weight:

4-12 fibre	.33kg/km
24-48 fibre	.37kg/km

Diameter:4	
4-48 fibre	7.0mm

\*According to BT CW1842 13.1.1-13.1.1.5 \*\*According to IEC 60794-1-21 \*\*\*According to BT CW1500-11

# Installation

The cable shall only be installed using approved suspension clamps. Recommended maximum span length for PIA applications is 68m, considering wind loads and 5mm ice coverage but up to 80m is possible for special cases.

# **Delivery Information**

Supplied lengths......250m to 6km

The cable is length blocking according to IEC 60794-1-2-FSB. Mechanical and environmental test in accordance with IEC 60794-5-10 and BT CW1842. Fibre parameters and tests according to the IEC series 60793-2 and 60793-1

# **Transmission Characteristics**

Attenuation	@ 1310nm	@ 1383nm	@ 1550nm	@ 1625nm
Typical	0.32dB/km	0.32dB/km	0.18dB/km	0.20dB/km
Max average in Cable	0.33dB/km	0.33dB/km	0.21dB/km	0.23dB/km
Max individual	0.36dB/km	0.36dB/km	0.23dB/km	0.25dB/km

## **Cross-section Design**

- 1. Primary coated fibre.....Silica, acrylate
- 2. Loose tubes, jelly filled.....Polyamide
- 3. Water blocking element....Water blocking yarn
- 4. Strength member.....Brass coated steel wires
- 5. Sheath.....Black HDPE with yellow stripes



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## **Colour Code system**

	1	2	3	4	5	6	7	8	9	10	11	12
IA-598 and Tubes	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua
TIA-	13	14	15	16	17	18	19	20	21	22	23	24
TI	Blue	Orange	Green	Brown	Slate	White	Red	Clear	Yellow	Violet	Rose	Aqua

To comply with PIA regulations Hexatronic part numbers for the Ultra Lightweight cable range consist of a base number and a suffix containing the "CF" customer code and a reel length code.

This information is also printed on the sheath.

EG: CFSDU-H4036011/36CF-1 = ULW cable 36f G657A1 with length 1 (1000m)

Ordering Information						
Part number	Description	Drum Size				
CFSDU-H4036011-36CF-3	Ultra Lightweight Cable A1	2000				

