

# **Ultra-Lightweight Aerial Cable**

ULW 4-48 fibers G657A2 TIA598

#### Features

- Up to 48 fibers
- Super lightweight and durable design based on unique miniature loose tubes
- For aerial or duct installations
- Extra bend resistant G657A2 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

#### Application

The Hexatronic Ultra-lightweight cable range is designed for aerial installations for fibre access networks. As a secondary application the cables 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 a loose tube design with bend resistant G657A2 fibres organised in 4, 8 or 12 fibre miniature loose tubes depending on cable fibre count. This design gives an excellent bend performance and an 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 3x0.32 mm 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.

### **Product Information**

- 1 Primary coated fiber: Silica, acrylate
- 2 Loose tube, jelly filled: PA
- 3 Strength member: Brass coated steel wires
- 4 Water blocking element: Water blocking yarns
- 5 Sheath: Polyethylene

# **Technical Information**

Product Color	Black sheath with yellow stripes
Color Code	TIA598
Temperature, Operation [°C]	-20 to +60
Temperature, Storage [°C]	-30 to +70
Temperature, Installation [°C]	-15 to +50
Fiber Type	G657A2
Attenuation @Wavelength [nm]	1310/1550/1625
Maximum Attenuation [dB/km]	0.38/0.23/0.26

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Conformance	Mechanical tests according to BT CW1842 13.1.1-13.1.1. Kink test according to IEC 60794-1-21. High voltage test
	(11kV) according to BT CW1500-11.
Marking	Marking: Example of sheath marking, 1 time/meter: "= xxxx M = HEXATRONIC – H4036001/12 yy.mm.dd" where yy.mm.dd = year, month and day of manufacture, xxxxx=running meter marking.
Installation Notes	The cable shall only be installed using approved suspension clamps. Recommended maximum span length for PIA applications is 68m, taking into account wind loads and 5mm ice coverage, but up to 80m is possible for special cases.
Ordering Information	Supplied lengths: 250m to 6km. To comply with PIA regulations Hexatronic part numbers for the ULW cable range consist of a base number and a suffix containing a unique two letter customer code and a reel length code. The customer name and the part number are also printed on the sheath. Example: H403011/36XX-1 = ULW cable 36F G657A1 for customer "XX" with length "1" (1000m).

# **Technical Details**



TIA 598 Color Code Chart

### Articles 12

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Article name	C <sub>O</sub> ,	<b>4</b> 0.	S.	¢°`	101	Q <sub>V</sub>	ILUF	¢°	Ne.	V <sup>e</sup> N
<b>ULW Aerial Cable 4f, G657A2</b> TOL4036012/4	Black	4	1x4	30	1620	2	10	7	33	-
<b>ULW Aerial Cable 4f, G657A2, 2000m</b> H4036012/04-3	Black	4	1x4	30	1620	2	10	7	33	2000
<b>ULW Aerial Cable 8f, G657A2</b> TOL4036012/8	Black	8	1x8	30	1620	2	10	7	33	-
ULW Aerial Cable 8f, G657A2, 2000m H4036012/08-3	Black	8	1x8	30	1620	2	10	7	33	2000
ULW Aerial Cable 12f, G657A2 TOL4036012/12	Black	12	1x12	30	1620	2	10	7	33	-
<b>ULW Aerial Cable 12f, G657A2, 2000m</b> H4036012/12-3	Black	12	1x12	30	1620	2	10	7	33	2000
ULW Aerial Cable 24f, G657A2 TOL4036012/24	Black	24	2x12	30	1620	2	10	7	37	-
ULW Aerial Cable 24f, G657A2, 2000m H4036012/24-3	Black	24	2x12	30	1620	2	10	7	37	2000
ULW Aerial Cable 36f, G657A2 TOL4036012/36	Black	36	3x12	30	1680	2	10	7	37	-
<b>ULW Aerial Cable 36f, G657A2, 2000m</b> H4036012/36-3	Black	36	3x12	30	1680	2	10	7	37	2000
<b>ULW Aerial Cable 48f, G657A2</b> TOL4036012/48	Black	48	4x12	30	1720	2	10	7	37	-
<b>ULW Aerial Cable 48f, G657A2, 2000m</b> H4036012/48-3	Black	48	4x12	30	1720	2	10	7	37	2000