



# Ultra-Lightweight Aerial Cable, 200 $\mu\text{m}$

**ULW 96 fibers G657A1 TIA598**

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## Features

- 96 fibers
- 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

## 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 200 µm, G657A1 fibres organised in 24 fibre miniature loose tubes. 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

<b>Product Color</b>	Black sheath with yellow stripes
<b>Color Code</b>	TIA598
<b>Temperature, Operation [°C]</b>	-20 to +60
<b>Temperature, Storage [°C]</b>	-30 to +70
<b>Temperature, Installation [°C]</b>	-15 to +50
<b>Fiber Type</b>	G657A1
<b>Attenuation @Wavelength [nm]</b>	1310/1550/1625
<b>Maximum Attenuation [dB/km]</b>	0.38/0.25/0.30

<b>Conformance</b>	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.
<b>Marking</b>	Marking: Example of sheath marking, 1 time/meter: " = xxxx M = HEXATRONIC – H4036016/96 yy.mm.dd" where yy.mm.dd = year, month and day of manufacture, xxxx=running meter marking.
<b>Installation Notes</b>	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.
<b>Ordering Information</b>	<b>Supplied lengths:</b> 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.

## Articles 1

Article name	Color	No. of Fibers	Layout	Bend Radius [mm]	Tensile Force, Operation [N]	Crush [N/100 mm]	Impact [J]	Diameter Ø [mm]	Weight [kg/km]
ULW Aerial Cable 96f, G657A1 200 µm TOL4036016/96	Black	96	4x24	30	1720	2	10	7	40