

# Aerial Metallic Self Supported ULW (12 - 48fibres)

ULW 96F 8X12 SP2037 (PIA)

ULTRA LIGHT WEIGHT CABLE 96 FIBRES WITH 8 MICROMODULES CONTAINING 12 FIBRES

This cable is used for Access, Distribution, City Network and FTTx applications. It is designed for installation in the BT Fibre Network in Overhead and Underground environments.

The cable is design to respond to the British Telecommunications Specifications CW1842 and related specifications CW1500 part 2, 7 and 11.

Maximum spans 68m.

## Characteristics & Applications

- Metallic strength members
- Microbundles inside - easy to open without special tools
- Waterproof dry core structure
- Small size design to minimize the effect of ice and wind
- Fully compatible with the reference BT toolings for cable opening

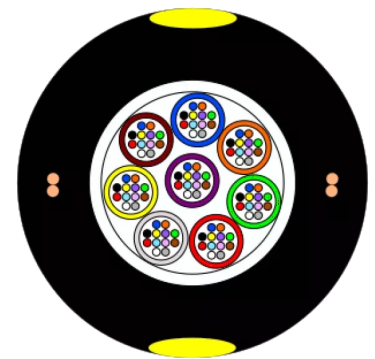
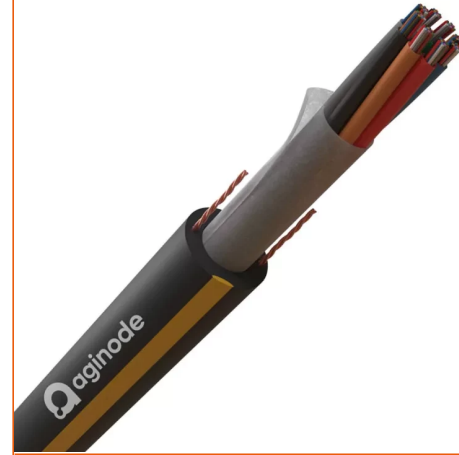
## Fibre Type

Compliant with BT CW1505 Cat2 and ITU-T G657A1

## Construction

- Jelly filled microbundles containing coloured fibres
- Swellable yarns
- HDPE outer sheath with embedded metallic brass coated steel wires
- Colour : Black outer sheath with 2 yellow stripes at 180°

## Optical Fibre Properties



## STANDARDS

Customer specification  
IEC 60793  
IEC 60794

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Aginode is indicative only and shall not be binding on Aginode or be treated as constituting a representation on the part of Aginode.

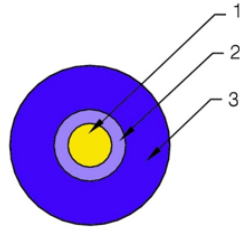
### Description and Applications

The fibre, made of a germanium doped silica core and a silica cladding, is protected with a resistant 200 micron coating. These fibres are totally compliant with international standards ITU-T G.657.A1 series while maintaining compatibility with G.652.D.



### Characteristics

- Doped Silica Core
- Superior bending performance



### Construction

- 1 : Core
- 2 : Cladding
- 3 : Coating

### Nominal dimensions & technical parameters

Characteristics		G.657.A1	
Optical	Wavelength (nm)	1310	1550
	Attenuation (dB/km)		
	• Nom.	≤ 0.34	≤ 0.19
	• Max.	≤ 0.36	≤ 0.22
	Zero Dispersion Wavelength (nm)	1300 - 1324	
	Zero Dispersion Slope (ps/nm <sup>2</sup> .km)	≤ 0.092	
	Polarization Mode Dispersion (ps/√km)	≤ 0.2	
	Concatenated Polarization Mode Dispersion (ps/√km)	≤ 0.08	
	Mode Field Diameter (1310 nm) (μm)	8.6 ± 0.4	
	Cable cut-off Wavelength (nm)	≤ 1260	
Dimensions	Chromatic Dispersion (1550 nm) (ps/nm.km)	≤ 18	
	Bending diameter (mm) induced attenuation (@ 1550/1625 nm) (dB)	20mm x 1 turn:	≤ 0.75/1.5
		30mm x 10 turns:	≤ 0.25/1.0
	Cladding Diameter (μm)	125 ± 0.7	
	Core/Cladding concentricity error (μm)	≤ 0.4	
	Coating diameter (Colored) (μm)	205 ± 7	
Cladding Non Circularity (%)	≤ 0.5		
Proof Stress Level (%)	1.2%		

### Micromodule Color Coding

1	2	3	4	5	6	7	8
Blue	Orange	Green	Brown	Grey	White	Red	Black

### Fibre Color Coding

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

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## Eigenschaften

### Konstruktionsmerkmale

Fasertyp	G657A1 - 200 µm
Außenmantel	PE HD
Metallfrei	No
Zugentlastungselement	Steel rods
Leitungsaufbau	Multibundle

### Abmessungsmerkmale

Anzahl der Bündel	8
Nettogewicht ca.	38 kg/km
Anzahl der optischen Fasern	96
Außendurchmesser, nom.	7.0 mm

### Mechanische Eigenschaften

Zulässige Zugbelastbarkeit	65 daN
Schlagfestigkeit (EN 187 000)	10 J
Querdruckwiderstand (IEC 794-1-E3)	200 N/cm

### Anwendungsmerkmale

Nagetierschutz	nein
Betriebstemperatur	-20...70 °C
Lagertemperatur, Bereich	-40...70 °C
Art der Installation	Aerial - self-supporting
Umgebungstemperatur bei Verlegung, Bereich	0...40 °C
Biegefaktor bei Verlegung	20 (xD)

## Dokumentation

Tableau de charge aérien ULW\_3.xlsx xlsx — 12.17 KB [Herunterladen](#) ↓

Optical Fibre Properties docx — 104.48 KB [Herunterladen](#) ↓

PLP FODE 5710070R DEADENDS pdf — 124.64 KB [Herunterladen](#) ↓

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## Verkauf & Lieferung Informationen

MARKING : Aginode FIBRE OPTIC CABLE - ULW OH/UG CABLE SP2037 8x12SM G657A1 YY/WW N°OF cccccM

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