



Aerial Drop Cable

Single Fibre

Technical Description

An aerial fibre optic cable which enables effective FTTH deployments for connectivity applications within Single Dwelling Units.

The cable has been designed for overhead installations or for installing cable routes on facades for a maximum span of up to 70m and is also suitable for pulling into ducts for several hundred metres.

The small diameter provides good wind resistance and the Thermoplastic Polyurethane (TPU) outer sheath provides for excellent mechanical performance and tensile strength. The cable is suitable for installation below 11kV power lines.

Features and Benefits:

- Pre-connectorised for ease of installation
- Standard LC or SC connection options available
- PIA compliant when used with ADC-CLAMP-5/35 (Aerial Drop Clamp 5/35 FTTH Ø2.5-5mm)
- Range of pre-terminated lengths available
- UV stable
- Compliant with IEC 60794



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Aerial Drop Cable Wedge Clamp.

Technical Data

Fibre Count		1
Fibre Type		G657.A2
Tight Buffer Fibre	Diameter	900µm
	Colour	Red
Outer Jacket	Diameter	2.9mm ± 0.1mm
	Thickness	~ 0.6mm
	Material	TPU
	Colour	Black
Strength Member		Aramid Yarn

Performance Specification

Characteristic		Parameter		Test Method
Tension	Long Term	150	N	IEC 60794-1-E1
	Short Term	300		
Crush Resistance	Long Term	100	N/10cm	IEC 60794-1-E3
	Short Term	300		
Minimum Bend Radius	Dynamic	20D	mm	IEC 60794-1-E6
	Static	10D		
Operating Temperature		-40 ~ +60	°C	IEC 60794-1-2-F1
Storage Temperature				

Fibre Specification

Parameter		Unit	Specification
			G657.A2
Mode Field Diameter	1310nm	μm	8.8 ± 0.4
	1550nm		9.8 ± 0.5
Cladding Diameter			125 ± 0.7
Cladding Non-Circularity		%	≤0.7
Core-Cladding Concentricity Error		μm	≤0.5
Coating Diameter			245 ± 5
Coating Non-Circularity		%	≤0.6
Cladding-Coating Concentricity Error		μm	≤12.0
Cable Cutoff Wavelength		nm	λ _{cc} ≤1260
Attenuation (max.)	1310nm	dB	≤0.35
	1550nm		≤0.21
Macro-Bending Loss	1 turn x 10mm radius @ 1550nm		≤0.1
	1 turn x 10mm radius @ 1625nm		≤0.2
	1 turn x 7.5mm radius @ 1550nm		≤0.2
	1 turn x 7.5mm radius @ 1625nm		≤0.5



Connector Specification

Connector Type	LC	SC
Insertion Loss (dB)	≤ 0.3	
Return Loss (dB)	≥ 50	
Test Wavelength (nm)	1310	
Operating Temperature (°C)	-20 to +60	

Technical Diagram

