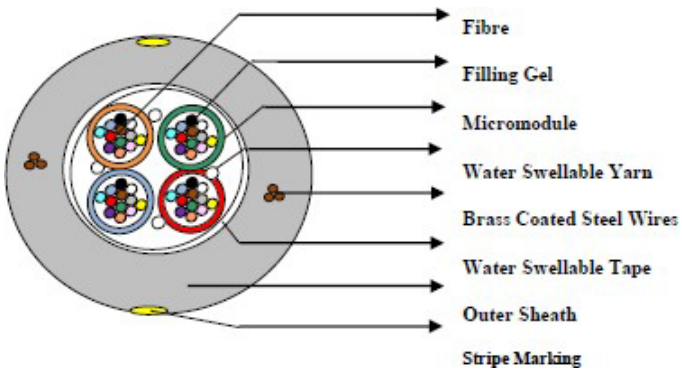
DATASHEET

Ultra Light Weight Cable 12 TO 48FO



Super lightweight and robust, the Ultra-lightweight cable is designed for aerial deployment across access fibre networks. BT approved; this cable conforms to the standard 7mm diameter as well as having a breaking tensile force of less than 2000n for maximum security. The cable combines low loss, bend insensitive G.657.A1 fibres with longitudinal water swellable elements to eliminate water ingress.

PN	MODEL
F1153-012-1000	ULW Aerial Cable 12FO Anti-Rodent
F1153-024-1000	ULW Aerial Cable 24FO Anti-Rodent
F1153-036-1000	ULW Aerial Cable 36FO Anti-Rodent
F1153-048-1000	ULW Aerial Cable 48FO Anti-Rodent

FEATURES & BENEFITS

Ultralight and compact design
PIA compatible
High mechanical performance which can be delivered preterminated
Integrated in a comprehensive FTTP solution including TELENCO aerial and façade hardware and ELINE transition boxes.

CABLE CONSTRUCTION

Fibre type	Compliant with ITU G657A1 recommendations
Fibre count	1 to 48FO
Number of modules	1, 2 or 4
Outer sheath	Cable diameter: 7.0 ± 0.2mm Material: HDPE
Nominal cable weight	40Kg/ km (for 48FO)
Cable reinforcement	Brass coated steel wire

CABLE MECHANICAL CHARACTERISTICS

Tensile breaking load	≤19000N		
Tensile strength	>1250N		IEC-60794-1-21-E1
Crush resistance	2000N/100mm		IEC-60794-1-21-E3
Impact	10Nm		IEC-60794-1-21-E4
Minimum bending radius	12D		IEC-60794-1-21-E11
Water penetration	1m water head, 3m sample, 24 hours		IEC-60794-1-21-F5
Voltage Test	11kV		If installed along power line minimum vertical distance of 1.8 m needs to be maintained
Resistance to wind/ice	Cable will withstand 97kph wind, no ice, 0kph wind + 5mm ice, without appreciable sag		
Environmental performance	Installation	-20°C to +85°C	IEC-60794-1-22-F1
	Operation	-20°C to +85°C	
	Storage	-20°C to +85°C	

OPTICAL FIBRE CHARACTERISTICS

Fibre Type	G657A1	
Attenuation	1310nm	≤ 0.34 dB/km
	1550nm	≤ 0.21 dB/km
	1625nm	≤ 0.25 dB/km
Chromatic dispersion	1290-1340nm	≤ 3.0 ps/nm.km
	1260-1360nm	≤ 7.0 ps/nm.km
	1480-1580nm	≤ 20.0 ps/nm.km
	1625nm	≤ 22.0 ps/nm.km
PMD	Max individual fibre	≤ 0.1ps/√km
MFD	1310nm	IEC-60794-1-21-E11
	1550nm	10.4 ± 0.5 µm
Core-cladding concentricity error		≤ 0.5 µm
Cladding Diameter		125 ± 1 µm
Resistance to wind/ice		≤ 0.7 %

Cable Length	2.0/4.0 km ± 5 %
Packaging	Wooden drums or reels
	Cable end sealed
	Drum marking: Drum number, User name, Fibre count, Cable Length, Date of manufacture, Net weight, Gross weight
Cable Standards	IEC 60793, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T, RoHS, REACH