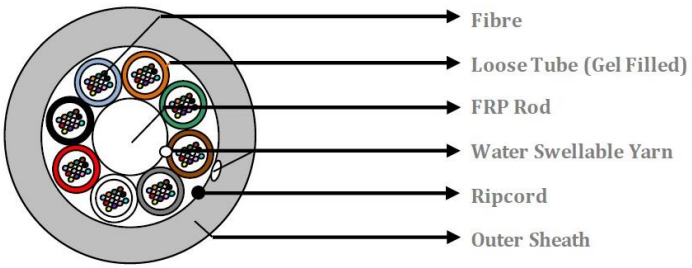
DATASHEET

Micro Cable HD 200um 48-288FO



High fibre capacity with an ultra-slim diameter, enables Telenco micro cable to be installed into microducts by network operators with ease.

Designed with 200 µm optimised bend loss G.657.A1 single-mode fibres to provide high performance while also protecting against extreme environmental stressors. The cable can also be provided in a 250 µm8 configuration.

PN	MODEL
F1180-048-1000	Micro Cable HD 48FO 200um 12FO Tube
F1180-096-1000	Micro Cable HD 96FO 200um 12FO Tube
F1180-144-1000	Micro Cable HD 144FO 200um 12FO Tube
F1180-288-1000	Micro Cable HD 288FO 200um 12FO Tube
F1181-096-1000	Micro Cable HD 96FO 250um 12FO Tube

FEATURES & BENEFITS

Optical Fibre containing elements laid up around central strength member
Gel Filled Water blocked loose tubes
Water blocked core interstices
HDPE sheath as external protection
Suitable for PIA applications

CABLE CONSTRUCTION

Parameter	Structure/Layout/Material		
Fibre Count	12/24/48/72F	96F	144F
Number of fibres per tube	12		
Number of loose tubes - PBT	1/2/4/6	8	12
Number of fillers – HDPE Black	5/4/2/0	0	
Central Strength Member	FRP Rod		
Moisture Barrier	Water Swellable Yarn – (FRP+Core)		
Outer Sheath	HDPE-Black		
Ripcords	1-Polyester		
Cable Diameter	4.5±0.3mm	5.5±0.3mm	6.8±0.3mm
Cable Weight	15±5 kg/km	30±5 kg/km	45±5kg/km

CABLE MECHANICAL CHARACTERISTICS

Tensile Strength	12-7F: 200N 96F:800N 144F:1000N		IEC-60794-1-21-E1
Crush Resistance	1000N		IEC-60794-1-21-E3
Impact Strength	1Nm		IEC-60794-1-21-E4
Torsion	±360 °		IEC-60794-1-21-E7
Minimum Bend Radius	20 X D		IEC-60794-1-21-E11
Kink	10 X D		IEC-60794-1-21-E10
Environmental Performance	Installation	- 5 °C to + 70 °C	IEC-60794-1-22-F1
	Operation	- 20 °C to + 70 °C	
	Storage	- 20 °C to + 70 °C	

OPTICAL FIBRE CHARACTERISTICS

Fibre Type	G.657A1			
Attenuation	1310nm		≤ 0.36 dB/km	
Chromatic Dispersion	1550nm		≤ 0.23 dB/km	
	1285nm-1330nm		≤ 17.5 ps/nm.km	
PMD (Max. Individual)	≤ 0.1 ps/√km			
PMD (Link design value)	≤ 0.06 ps /√km			
Cable cut off wavelength λcc	≤ 1260 nm			
MFD	1310nm		9.1 ± 0.3 µm	
	1550nm		10.3 ± 0.5 µm	
Bending Induced Attenuation	1 Turn	ϕ 20	1550nm	≤ 0.75 dB
			1625nm	≤ 1.5 dB
	10 Turn	ϕ 30	1550nm	≤ 0.25 dB
			1625nm	≤ 1.0 dB
Core-Cladding Concentricity Error	≤ 0.5 µm			
Cladding Diameter	125 ± 0.7 µm			
Cladding Non-Circularity	≤ 0.7 %			
Primary Coating Diameter (Uncoloured)	200 ± 5 µm			

Cable Length	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