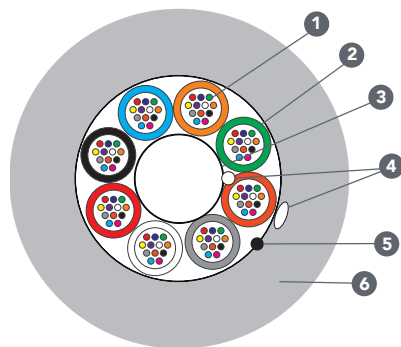


# MICRO CABLE HD 200µm

## 48-288FO



LEGEND	
1	Fibre
2	Loose Tube (Gel Filled)
3	FRP Rod
4	Water Swellable Yarn
5	Ripcord
6	Outer Sheath

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

Designed with 200µm 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 250µm configuration.

PN	MODEL
F1180-048-1000	Micro Cable HD 48FO 200µm 12FO Tube
F1180-096-1000	Micro Cable HD 96FO 200µm 12FO Tube
F1180-144-1000	Micro Cable HD 144FO 200µm 12FO Tube
F1180-288-1000	Micro Cable HD 288FO 200µm 12FO Tube
F1181-096-1000	Micro Cable HD 96FO 250µm 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
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 ± 5kg/km	30 ± 5kg/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

Single Mode Fibre	G.657A1			
Attenuation	1310nm	≤ 0.36dB/km		
Chromatic Dispersion	1550nm	≤ 0.23dB/km		
	1285nm-1330nm	≤ 17.5 ps/nm.km		
PMD (Max. Individual)	≤ 0.1ps/√km			
PMD (Link design value)	≤ 0.06ps/√km			
Cable cut off wavelength λ <sub>cc</sub>	≤ 1260nm			
MFD	1310nm	9.1 ± 0.3µm		
	1550nm	10.3 ± 0.5µm		
Bending Induced Attenuation	1 Turn	φ20	1550nm	≤0.75 dB
			1625nm	≤1.5 dB
	10 Turn	φ30	1550nm	≤0.25 dB
			1625nm	≤1.0 dB
Core-Cladding Concentricity Error	≤ 0.5µm			
Cladding Diameter	125 ± 0.7µm			
Cladding Non-Circularity	≤ 0.7%			
Primary Coating Diameter (Uncoloured)	200 ± 5µm			

## TECHNICAL SPECIFICATIONS

Cable Length	4.0km ± 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