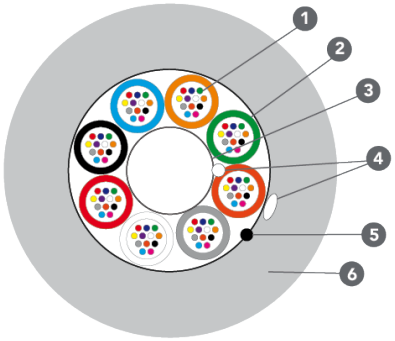
DATASHEET

# BLOWN MICRO CABLE HD 200µm

## 12-288FO

Telenco




| 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 the 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 |
|---|---|
| F1180-012-1000 | Micro Cable HD 12FO 200µm 12FO Tube |
| F1180-024-1000 | Micro Cable HD 24FO 200µm 12FO Tube |
| 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 |

## 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 | 12/24/36/48/72F | 96F | 144F | 288F |
| Number of fibres per tube | 12 | | | 24 |
| 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 | 8.6 ± 0.3mm |
| Cable Weight | 15 ± 5kg/km | 30 ± 5kg/km | 45± 5kg/km | 80 ± 10kg/km |

## CABLE MECHANICAL CHARACTERISTICS

| | | | |
|---|---|---|---|
| **Tensile Strength** | **12-72F: 200N \| 96F: 800N<br>144F: 1000N \| 288F: 1500N** | | **IEC-60794-1-21-E1** |
| **Crush Resistance** | 2000N | | IEC-60794-1-21-E3 |
| **Impact Strength** | 10Nm | | 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 | |

## FIBRE COLOR

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bl | Or | Gr | Br | Sl | Wh | Rd | Bk | Yl | Vi | Pk | Aq |
| Bl* | Or* | Gr* | Br* | Sl* | Wh* | Rd* | Nt* | Yl* | Vi* | Pk* | Aq* |

* Single ring mark on 13 - 24 fibre

## TUBE COLOR

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bl | Or | Gr | Br | Sl | Wh | Rd | Bk | Yl | Vi | Pk | Aq |

## 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 λcc** | ≤ 1260nm | |
| **MFD** | 1310nm | 9.1 ± 0.3µm |
| | 1550nm | 10.3 ± 0.5µm |
| **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<br>Cable end sealed<br>Drum marking: Drum number, User name, Fibre count, Cable Length,<br>Date of manufacture, Net weight, Gross weight |
| **Cable Standards** | IEC 60793, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T, RoHS, REACH |