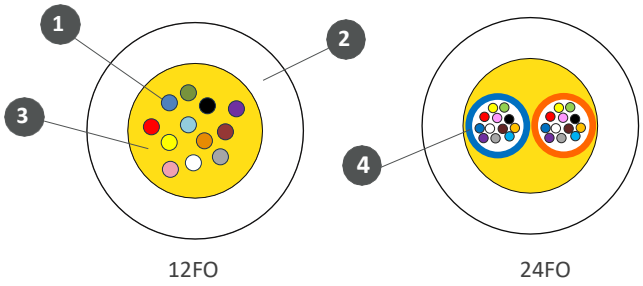
DATASHEET

Int/Ext Midspan Cable G657B3 3.0mm Cca – 12 & 24FO

Telenco



12FO 24FO

LEGEND	
1	Fibre
2	Outer sheath
3	Aramid yarn
4	Micromodule

The Telenco® single sheathed corridor cable is a suitable solution enabling simple, fast and reliable install in an Multi Dwelling Units.

Thanks to its FR-LSZH outer sheath and water blocking aramid yarns, this solution can be suitable for both indoor and outdoor applications

FEATURES & BENEFITS

- Enables simple, fast and reliable outdoor and indoor installation
- Compliant with CPR Cca
- Small sized, low bending loss

CABLE CONSTRUCTION

Optical fibre	Compliant with G.657B3 ITU recommendations
Fibre count	12FO, 24FO
Fibre colour code	1.Blue, 2.Orange, 3.Green, 4.Red, 5.Grey, 6.Yellow, 7.Brown, 8.Violet, 9.Black, 10.White, 11.Pink, 12.Turquoise
Strength member	Aramid yarns
Outer sheath	Material: FR LSZH Color: Black/White Diameter: 3.0 +/-0.1mm
Cable marking	Cca s1b – d1 – a2 - XXXXXX m WW/YY: Week / Year xFO : Number of fibres : Laser pictogram and Telephone pictogram XXXXXXm: Incremental produced length of one type of cable Ink color: Black or White

MECHANICAL AND ENVIRONMENTAL PERFORMANCES

Characteristics	Standards	Values
Maximum Allowable Tension	IEC 60794-1-2 - Method 1	Long term 200N, Short term 500N
Moin. Bend radius	IEC 60794-1-2 - Method 11	Dynamic 30D, Static 15D
Crush	IEC 60794-1-2-- Method 3	Long term 200N/10cm, Short term 500N/10cm
Temperature Cycling	IEC 60794-1-2 -- Method F1	Installation : -10°C + 65°C Operation : -40°C + 70°C Storage : -40°C + 70°C
Fire behaviour	EN 50575	CPR Cca

FIBRE CHARACTERISTICS

GEOMETRICAL PROPERTIES	
Cladding diameter	125µm ± 0.7µm
Cladding non circularity	≤0.7%
Core Cladding Concentricity Error	≤0.5µm
Coating diameter	235µm - 245µm
Coating-Cladding Concentricity Error	≤12µm
Tensile proof test	≥100kpsi

MODE FIELD DIAMETER	
at 1310 nm	8.2 - 9.0µm
at 1550 nm (typical)	9.1 - 10.1µm

MACROBENDING ATTENUATION		
Deployment Condition Wavelength Induced Attenuation	1550nm	1625nm
1 turn on a 10mm radius mandrel	≤0.03dB	≤0.10dB
1 turn on a 7.5mm radius mandrel	≤0.08dB	≤0.25dB
1 turn on a 5mm radius mandrel	≤0.15dB	≤0.45dB

WAVELENGTH (nm)	CABLED MAX ATTENUATION (dB/km)
1310	≤0.35
1550	≤0.21
1625	≤0.23

CHROMATIC DISPERSION	
Zero Dispersion Wavelength (λ0)	1302-1324nm
Zero Dispersion Slope (S0)	≤0.092ps/nm².km
Cut-off Wavelength (λCC)	≤1260nm

POLARIZATION MODE DISPERSION (PMD)*	
Fibre PMD Link Design Value	<0.06ps/√km
Maximum Individual Fibre	<0.1ps/√km

(* according IEC 60794-3, method 1, m=20, Q=0.01%)