FIBRE OPTIC CABLE

Construction

Made with high quality optical fibres suitable for operation at 850nm & 1300nm. The fibres conform to international standard ITU-T G651. The fibres have excellent geometrical properties to yield low splice loss. The fibres have dual acrylate coating and colour of the coating will not change over period of time.

Applications

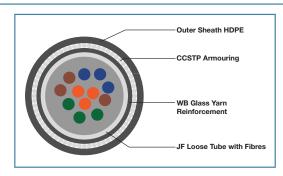
Communication applications.

Packaging

Available in 500 metre drums. Cut lengths available on request.

Specification	
Max. Permissible Tensile Force	2000 N - Short Term & 1000 N - Long Term
Crush Resistance	2000 Newton / 10 cm
Minimum Bending Radius	20 x Cable Diameter
Max. Operating / Installation Temp.	-20°C to +70°C
Max. Span Length	70 - 75 Mtr.
Cladding Diameter	125.0 ± 2.0 μm
Core Diameter	$50 \pm 1.0 \mu m$
Coating Diameter	245 ± 10 μm
Numerical Aperture	0.200 ± 0.015
Cladding Non-Circularity	≤ 1.0%
Core Non-Circularity	≤ 5.0%
Coated Fibre Diameter	235 to 255 μm
Core/Cladding Concentricity Error	≤ 2 µm
Coating/Cladding Concentricity Error	≤ 12 μm
Minimum Proof Strength - Strain	0.70 GPa (100 Kpsi) - 1%
Fiber Macrobend (100 turns around	≤ 0.05 dB @ 1310 nm &
75mm dia. Mandrel)	≤ 0.10 dB @ 1550 nm
Fiber Macrobend (1 turn around	≤ 0.5 dB @ 850 nm & 1300 nm
32mm dia. Mandrel)	
Coating Strip Force	1.3 N ≤ F ≤ 8.9 N
Bandwidth	500/500 MHz.Km @ 850/1300 nm
Attenuation	≤ 2.7 dB/Km @ 850 nm & ≤ 0.8 dB/Km @ 1300 nm
Dynamic Tensile Strength	Unaged: > 550 Kpsi (3.8 GPa)
	a Aged: > 440 Kpsi (3.0 GPa)
Dynamic Fatigue	≥ 20
Static Fatigue	≥ 20







Physical and Dimensions Properties

Specification	
Type of Fibre	50/125 MMF
Loose Tube Diameter	2.8 ± 0.1mm
Strength Member	Water Blocking Glass Yarn Reinforcement
Outer Sheath Material	HDPE
Outer Sheath Thickness	Min. 1.5mm
Outer Cable Diameter	8.5 mm Nominal
Cable Weight	80 kg/km Nominal
Printing on Cable	As per customer requirement
Standard Length	2,4 ± 10% KMS

No. of Fibres	Colour of Fibre
4F	Blue, Orange, Green & Brown
6F	Blue, Orange, Green, Brown, Slate & White
8F	Blue, Orange, Green, Brown, Slate, White, Red & Black
12F	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose & Natural

^{*} Fibre optic HDD/CST with Steel Wire Armour available on request.