

FIBRE OPTIC CABLE

HDD / AERIAL CABLE MM

Construction

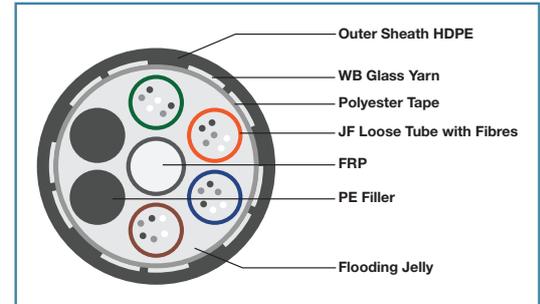
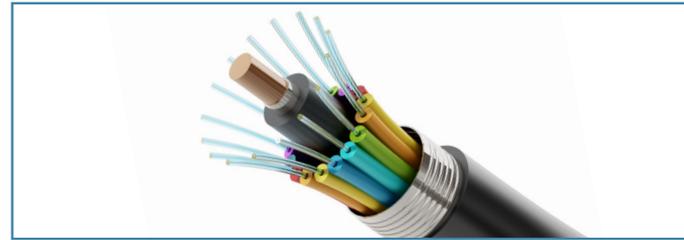
Made with high quality optical fibres suitable for operation at 850nm & 1300nm. The fibres conform to international standard ITU-T G651. The fibres have excellent geometrical properties to yield low splice loss. The fibres have dual acrylate coating and colour of the coating will not change over period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

Applications

Communication applications.

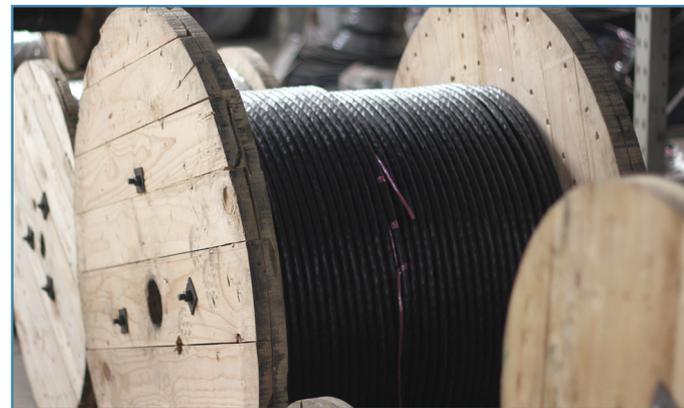
Packaging

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



Specification

Max. Operating Tension (Long Term)	2000 Newton
Crush Resistance	2000 Newton / 100 mm
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 ± 1.0 µm
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 75mm dia. Mandrel)	≤ 0.05 dB @ 1310 nm & ≤ 0.10 dB @ 1550 nm
Fiber Macrobend (1 turn around 32mm dia. Mandrel)	≤ 0.5 dB @ 850 nm & 1300 nm
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	2.2mm Nominal
Strength Member	FRP & WB Glass Yarn Reinforcement
Outer Sheath Material	HDPE
Outer Sheath Thickness	1.5mm Nominal
Outer Cable Diameter	10.1 ± 0.6mm
Cable Weight	85 kg/km Nominal
Printing on Cable	As per customer requirement
Standard Length	2/4/6 km ± 10%

No. of Fibres	No. of Tubes / No. of Filler	Sequence of Tube	Colour of Fibre
4F & 6F	1/5	Blue, Filler-1, Filler-2, Filler-3, Filler-4, Filler-5	Blue, Orange, Green, Brown, / Slate & White
8F	2/4	Blue, Orange, Filler-1, Filler-2, Filler-3, Filler-4	Blue, Orange, Green & Brown
12F	2/4	Blue, Orange, Filler-1, Filler-2, Filler-3, Filler-4	Blue, Orange, Green, Brown, Slate, White
24F	4/2	Blue, Orange, Green, Brown, Filler-1, Filler-2	Blue, Orange, Green, Brown, Slate, White

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