

Unitube Indoor/Outdoor Fibre Optic Cable

Product Details

Unitube Single Jacket Duct Optic Cable, this can be used for Indoor/outdoor applications in cabletrays or ducts for access inside campus and within buildings. This cable consists of colour coded optical fibres placed in a central tube along with gel to protect from water ingress and is surrounded with high strength yarns which provides tensile to the core. This cable can be installed in ducts with either pulling or blowing techniques and give protection against rodents



Features & Benefits

- Cables are rodent protected
- Easily removable rugged jacket
- Flexible, light weight, easy to handle & install
- Tensile and crush resistant
- UV protected
- Tightly controlled physical parameters

*Typical Construction Diagram - Not to Scale

Specifications

Physical Characteristics								
Fibre Count	4-24							
Fibre Type	MM(OM1,OM2,OM3,OM4)							
Maximum Cabled Attenuation (dB/km)	1310nm : ≤ 0.36 & 1550nm : ≤ 0.23							
Moisture Barrier	Water Swellable Yarn with GRY							
Peripheral Strength Members	Glass Roving Yarns							
Embedded Strength Member	FRP to provide tensile strength and anti-buckling properties							
No of Ripcords Below Tape	2							
Outer Sheath Material	LSZH							
Cable Characteristics								
Fibre Count	Fibre Per Tube	No of Tubes	Tube Colour	Sheath Colour	Fibre Color	Cable Diameter (mm)	Weight of Cable (kg/km)	Cable Length in one Reel (KM)
4	4	1	White	Black	BL,OR,GR,BR.	7.0 \pm 0.5	60 \pm 10%	2 \pm 5%
6	6	1	White	Black	BL,OR,GR,BR,SL,WH	7.0 \pm 0.5	60 \pm 10%	2 \pm 5%
12	12	1	White	Black	BL,OR,GR,BR,SL, WH, RD, BK, YL,VI,PK,AQ.	7.0 \pm 0.5	60 \pm 10%	2 \pm 5%
24	24	1	White	Black	BL,OR,GR,BR,SL,WH, RD,BK,YL,VI,PK,AQ. With BL & OR Bundle Binder	7.5 \pm 0.5	65 \pm 10%	2 \pm 5%

Note:-

Note:Where BL=Blue,OR=Orange,GR=Green,BR=Brown,SL=Slate,WH=White,RD=Red,BK=Black,YL=Yellow,VI=Yellow,PK=Pink, & AQ=Aqua.

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Mechanical & Environmental Characteristics

Cable Characteristics	Testing Standard	Cable Performance
Tensile Strength (N)	IEC-60794-1-21-E1	1000
Crush Resistance (N/100 mm)	IEC-60794-1-21-E3	2000
Impact Strength(Nm)	IEC-60794-1-21-E4	10
Torsion	IEC-60794-1-21-E7	±180°
Min. Bend Radius (During Installation)	IEC-60794-1-21-E11	20 D
Min. Bend Radius (After Installation)	IEC-60794-1-21-E11	15 D
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 h
Temperature Performance	IEC-60794-1-22-F1	Max. change in attenuation shall be \leq 0.15 dB/km
Installation		-10°C to +50°C
Operation		-40°C to +60°C

Note : All tests shall be carried out as per IEC standards. Change in attenuation after and before testing shall be \leq 0.05 dB/km for Multimode fibre.

Cable Performance Standards

Cable complies to the following standards IEC 60793, IEC 60794, Telecordia GR-20, ITU-T, RoHS, REACH.

Packing and Lengths

Drum Type	: Wooden Drums
Length Multiple (km)	: $2 \pm 5\%$
Order Tolerance	: $\pm 5\%$
Short Lengths	: Max 5%, Customer Approval