

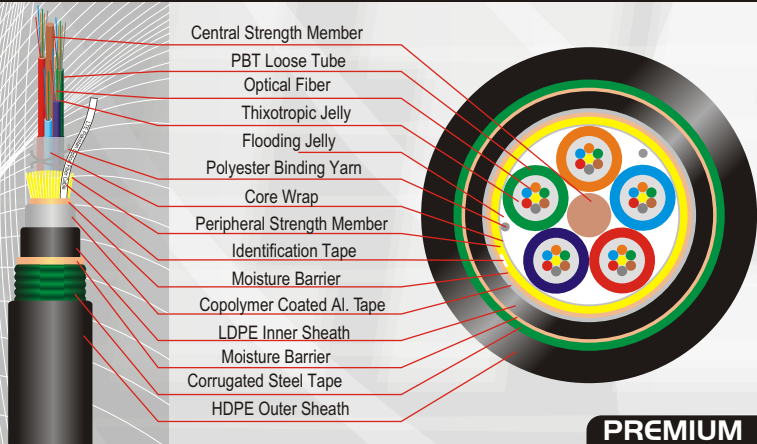
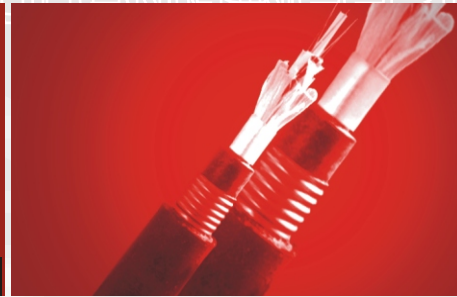


ISO 9001 Certified

Direct Buried Cable

Premium . Standard . UltraLite

Cables



PREMIUM

FEATURES & Applications

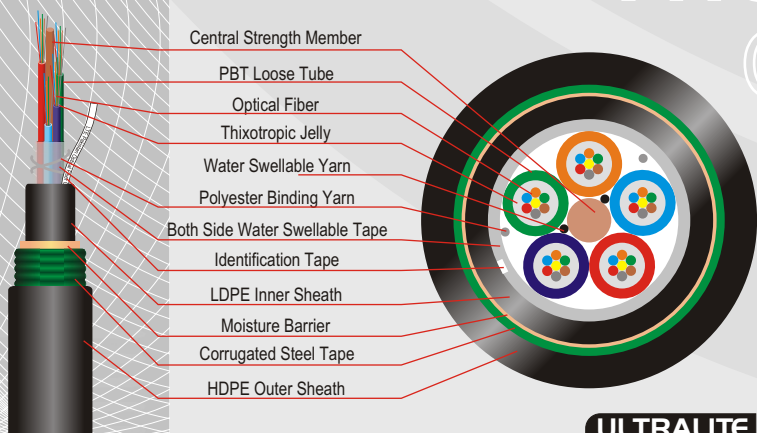
Application in LAN, WAN, Cable TV, Long haul communication system
Ultra high tensile strength
Ultra high crush strength
Kink resistant
Corrosion resistant
Ultra superior moisture protection
Rodent proof
Easy handling and installations



STANDARD

FEATURES & Applications

Application in LAN, WAN, Cable TV, Long haul communication system
High tensile strength
High crush strength
Kink resistant
Corrosion resistant
Superior moisture protection
Rodent proof
Light weight
Easy handling and installations
Smaller bending radius



ULTRALITE

FEATURES & Applications

Application in LAN, WAN, Cable TV, SCADA system
High tensile strength
High crush strength
Kink resistant
Corrosion resistant
Superior moisture protection
Rodent proof
Very light weight
Easy handling and installations
Very flexible & small bending radius

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Direct Buried Cable

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Characteristics	PBC	SBC	UBC
Construction Parameters and Material Types			
Fiber count / Number of tubes	6 to 96 / 3 to 8	6 to 96 / 3 to 8	4 to 30 / 2 to 5
Tube material	PBT	PBT	PBT
Tube jelly type	Thixotropic jelly	Thixotropic jelly	Thixotropic jelly
Filler (if required)	MDPE	MDPE	MDPE
Central element type	GRP	GRP	GRP
Core moisture protection	Flooding jell	Flooding jell	WS yarn
Core wrap	Yes	Yes	NA
Peripheral strength member	Aramid yarn	Aramid yarn	NA
Longitudinal moisture protection	Aluminum tape	One side swellable tape	Both side swellable tape
Jelly under inner sheath	WS type	NA	NA
Inner sheath thickness, mm / material	2 / LLDPE	1 / LLPDE	1 / LLDPE
Armouring	Steel tape	Steel tape	Steel tape
Jelly under steel tape	WS type	WS type	WS type
Outer sheath thickness, mm / material	3 / HDPE	2 / HDPE	1.6 / HDPE
Approximate cable weight, kg / km	341 to 496	202 to 352	155 to 186
Cable delivery length, km	2 to 4	2, 4 & 6	2, 4 & 6
Optical Fiber Characteristics			
Fiber type	SM	SM	SM
Mode field diameter, μm	8.6 to 9.5	8.6 to 9.5	8.6 to 9.5
Cladding / Coating diameter, μm	125 ± 1 / 245 ± 5	125 ± 2 / 245 ± 10	125 ± 2 / 245 ± 10
Core clad concentricity error, μm	≤ 0.80	≤ 1.0	≤ 1.0
Clad non-circularity, %	≤ 1	≤ 1.5	< 2.0
Mode field concentricity error, μm	≤ 1	≤ 1.5	≤ 1.0
Chromatic dispersion, ps / (nm ² . km)	≤ 3.5 at 1310 ≤ 18 at 1550	≤ 3.5 at 1310 ≤ 18 at 1550	≤ 3.5 at 1310 ≤ 19 at 1550
Zero dispersion slope, ps / (nm ² . km)	≤ 0.092	≤ 0.093	≤ 0.093
Zero dispersion wavelength, nm	1300 to 1322	1300 to 1324	1300 to 1324
Cabled fiber cut-off, nm	≤ 1260	≤ 1260	≤ 1260
Max. att single cabled fiber 1310 / 1550 dB / km	≤ 0.38 / 0.25	≤ 0.38 / 0.28	≤ 0.4 / 0.3
Average att of cable, dB / km	≤ 0.35 / 0.21	≤ 0.36 / 0.24	≤ 0.37 / 0.25
Mechanical and Environmental Characteristics			
Tensile strength, Newton	4000	3000	2300
Crush strength, Newton	2500	2000	1800
Impact, points	10	5	5
Repeated bending, cycles	100	50	50
Torsion, cycles	5	5	5
Water penetration, hours	36	24	24
Minimum bending diameter, mm	10 x OD	10 x OD	10 x OD
Temperature cycling, cycles	10	08	05
Operating temperature, °C	-15 to +75	-15 to +70	-10 to +70
Applicable standards	ITU-T G-650, G-652, G655, IEC-793-1 & 2, IEC-794-1 & 2, TIA / EIA- 598 A, EN 188 000, etc		
PBC Premium Buried Cable, SBC Standard Buried Cable, UBC UltraLite Buried Cable			
PBT Polybutylene Terephthalate, MDPE Medium Density Polyethylene, GRP Glass Reinforced Plastic, WS Water Swellable, LLDPE Linear Low Density Polyethylene, HDPE High Density Polyethylene, SM Single Mode Fiber, OD Outer Diameter, att Attenuation, NA Not Applicable			

* Customized designs are available on request.

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