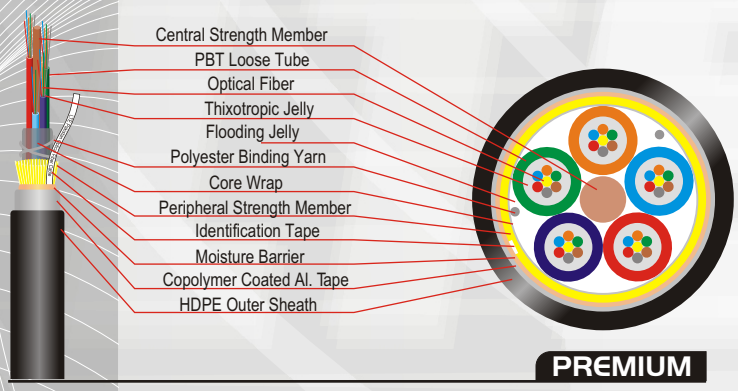
ISO 9001 Certified

Duct Cable

Premium . Standard . UltraLite

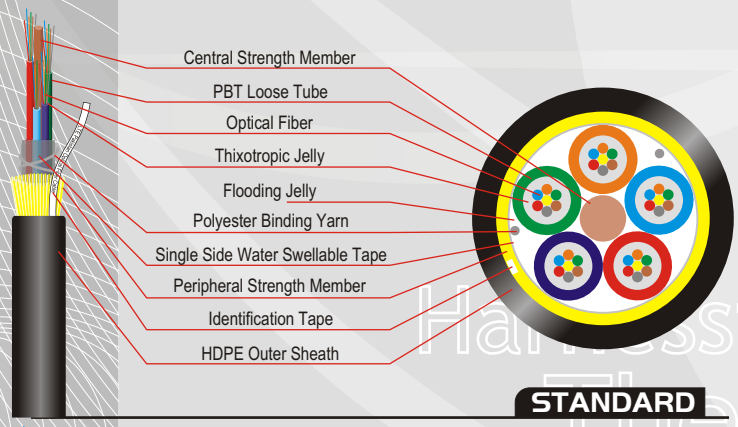
Cables



PREMIUM

FEATURES & Applications

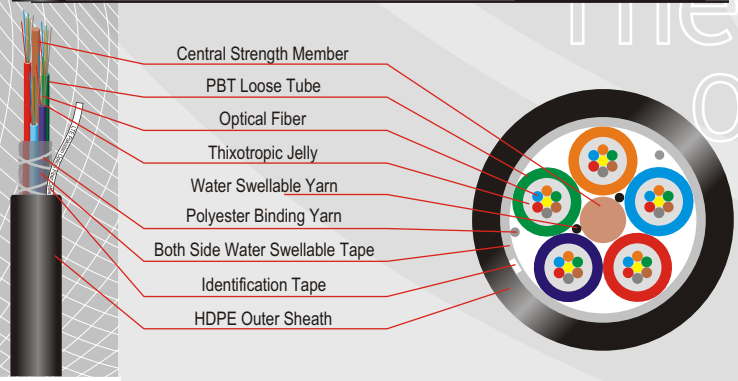
Application in LAN, WAN, Cable TV, Inter exchange system
Ultra high tensile strength
Ultra high crush strength
Ultra superior moisture protection
Light weight
Easy handling and installations



STANDARD

FEATURES & Applications

Application in LAN, WAN, Cable TV, Inter exchange system
High tensile strength
Kink resistant
All dielectrical
Immune to lightning strikes
Flexible and ultra light weight
Easy handling and installations
Smaller bending radius



ULTRA

FEATURES & Applications

Application in LAN, WAN, Cable TV, Inter exchange system
High tensile strength
Kink resistant
All dielectrical
Immune to lightning strikes
Flexible and ultra light weight
Easy handling and installations
Smaller bending radius

LT ENGINEERING

Pioneers Of Optical Fiber In Pakistan

ISO 9001 Certified

Duct Cable

Premium . Standard . UltraLite

Characteristics	PDC	SDC	UDC
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 jell	Thixotropic jell	Thixotropic jell
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 aluminum tape	WS type	NA	NA
Outer sheath thickness, mm / material	2 / HDPE	1.5 / HDPE	1.5 / HDPE
Approximate cable weight, kg / km	116 to 260	110 to 217	62 to 100
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, mm	1300 to1322	1300 to1324	1300 to1324
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	3000	2000	1500
Crush strength, Newton	2000	1800	1600
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 G650, G652, G655, IEC-793-1 & 2, IEC-794-1 & 2, TIA/EIA- 598A, EN 188 000**		

PDC Premium Duct Cable, **SDC** Standard Duct Cable, **UDC** Ultra Lite Duct Cable, **PBT** Polybutylene Terephtalate, **MDPE** Medium Density Polyethylene, **GRP** Glass Reinforced Plastic, **WS** Water Swellable, **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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