

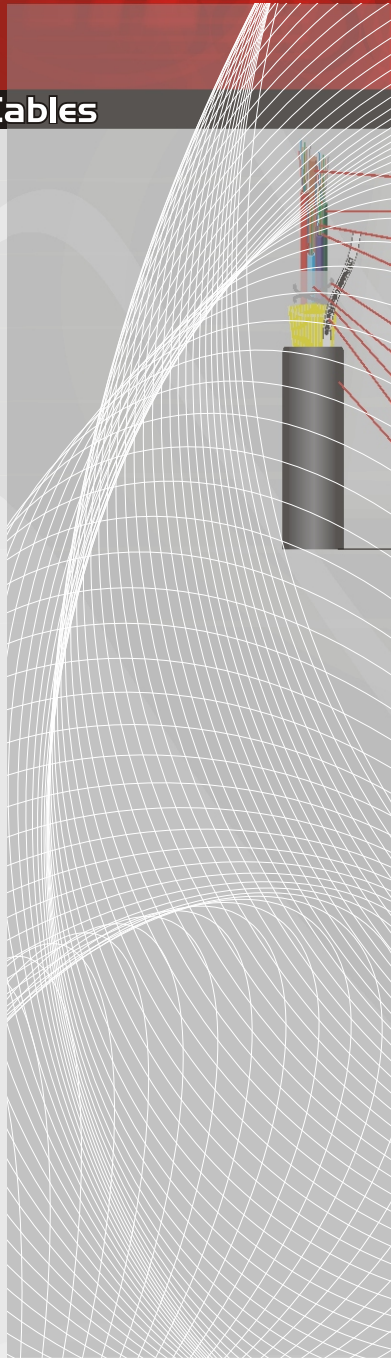


ISO 9001 Certified

ENGINEERING

Aerial Cable

Cables



Central Strength Member

PBT Loose Tube

Optical Fiber

Thixotropic Jelly

Flooding Jelly

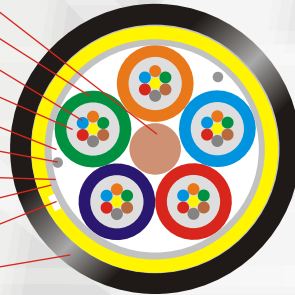
Polyester Binding Yarn

Single Side Water Swellable Tape

Peripheral Strength Member

Identification Tape

HDPE Outer Sheath



FEATURES & APPLICATIONS

Application in LAN, WAN, Cable TV, rural communication, power networks, railway networks, mountainous terrain

Ultra high tensile strength

All dielectrical

Immune to lightning strikes

Superior moisture protection

Ultra light weight / flexible

Easy handling and installations

LT ENGINEERING

Pioneers Of Optical Fiber In Pakistan

Harnessing The Power Of Light

LT ENGINEERING

Pioneers Of Optical Fiber In Pakistan





ISO 9001 Certified

Aerial Cable

Characteristics	AC
Construction Parameters and Material Types	
Fiber count / number of tubes	6 to 96 / 3 to 8
Tube jelly type	Thixotropic jell
Filler (if required)	MDPE
Central element type	GRP / FRP
Core moisture protection	Flooding jell
Core wrap	Yes
Peripheral strength member	Aramid yarn
Longitudinal moisture protection	One side swellable tape
Jelly under inner sheath	NA
Outer sheath thickness, mm / Material	2 / HDPE
Approximate cable weight, kg / km	139 to 225
Cable delivery length, km	2, 4 & 6
Optical Fiber Characteristics	
Fiber type	SM
Mode Field diameter, μm	8.6 to 9.5
Cladding / Coating diameter, μm	125 $\pm$ 1 / 245 $\pm$ 5
Core clad concentricity error, μm	$\leq$ 0.80
Clad non-circularity, %	$\leq$ 1
Mode field concentricity error, μm	$\leq$ 1
Chromatic dispersion, ps / (nm . km)	$\leq$ 3.5 at 1310, $\leq$ 18 at 1550
Zero dispersion slope, ps / (nm ² . km)	$\leq$ 0.093
Zero dispersion wavelength, nm	1300 to 1322
Cabled fiber cut-off, nm	$\leq$ 1260
Max. att single cabled fiber 1310 / 1550 dB / km	$\leq$ 0.38 / 0.28
Average att of cable, dB / km	$\leq$ 0.36 / 0.25
Mechanical and Environmental Characteristics	
Tensile strength, Newton	For 06 to 36 fiber 3200, for 48 to 96 fibers 3500
Crush strength, Newton	2000
Impact, points	5
Repeated bending, cycles	100
Torsion, cycles	5
Water penetration, hours	24
Minimum bending diameter, mm	Unloaded 10 x OD, Loaded 20 x OD
Temperature cycling, cycles	10
Operating temperature, $^{\circ}\text{C}$	-15 to +75
Ice layer on the cable	4 mm, all around the cable
Wind load, km / hour	100
Bird load, Newton / meter	9
Cable sag, %	2
Distance between poles, meter	40
Cable elongation, %	0.3
Applicable standards	ITU-T G650, G652, G655, IEC-793-1 & 2, IEC-794-1 & 2, TIA/EIA- 598A, EN 188 000
AC All Dielectric Self Supporting Aerial, PBT Polybutylene Terephthalate, 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*

L.T Engineering

& Trade Services (Pvt) Ltd.

Lub Thattoo, Hasanabdal - 43730, Pakistan

Tel: +92 5772 520017, 520520

Fax: +92 5772 520133, 520752

E-mail: info@ltepakistan.com

Web site: www.ltepakistan.com

Harnessing The Power Of Light

LT ENGINEERING

Pioneers Of Optical Fiber In Pakistan

