

OUTDOOR CABLE / Mini-LT

Small Diameter, Armored Type

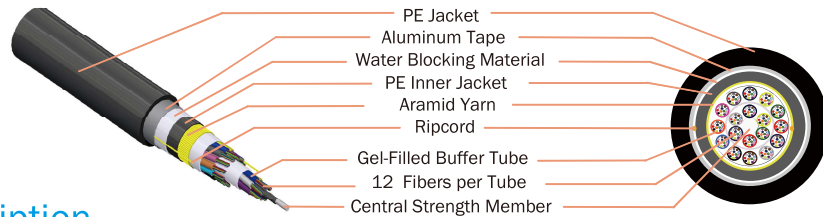
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Product Information

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Construction



Description

The Mini-LT cable is small cable diameter design to reduce installation time / space, and faster access to all fibers. With this design, 12 optical fibers are placed within color-coded, gel-filled buffer tubes, and then uses aramid yarn as strength members. The small diameter cable can maximize capacity in heavily congested duct systems where space is at a premium. Fiber counts of 96, 144 and 216.

Application

- Local area networks
- Outside plant distribution system
- Long haul trunking and feeder
- Duct or direct buried installation
- CATV, CCTV, telecommunication

Specification

Fiber Count	96	144	216
Fiber Per Tube	12		
Central Strength Member	Steel Wire Coating PE		
Inside Loose Tube	Filling Compound		
Wrapping	Water Blocking Material		
Sheath	Black PE		
Cable Diameter: mm (max.)	14.5	17.5	
Cable Weight: kg/km (approx)	188	210	240
Maximum Tensile Strength	2700 N		
Min. Bend Radius	Loaded:	20 times of cable diameter	
	Unloaded:	10 times of cable diameter	

Features and Benefits

- Gel-Filled Buffer Tube & Dry Cable Core design for less cable preparation time
- Small cable diameter and light weight make it easy to install cable in small duct
- Excellent optical, mechanical and environmental characteristics
- Color coded tube for correct multi-fiber identification and use
- Compliant with EIA, IEC and Telcordia standards

Color Code

Single Layer	1	2	3	4	5	6	7	8	9	10	11	12						
	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua						
Double Layers	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	Blue	Orange	Green	Brown	Slate	White	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua

* Color arrangement would be changed to meet customers' requests.

Fiber Specification

Fiber Attenuation	Singlemode	1310nm ≤ 0.4 dB/km	PMD	< 0.2 ps/km ^{1/2}	
		1550nm ≤ 0.3 dB/km		Mode-Field Diameter (SM) G.652D	1310nm: 9.0 ~ 9.4 μm, ± 0.4 μm
Multimode		850nm ≤ 3.5 dB/km	G.657A	1550nm: 10.0 ~ 10.7 μm ± 0.7 μm	
		1300nm ≤ 1.0 dB/km		1310 nm: 8.6 ~ 9.4 μm, ± 0.4 μm	
Bandwidth(MM)	OM2-50/125	850nm ≥ 500 MHz-km	Multimode Core	50	50 μm ± 3 μm
		1300nm ≥ 500 MHz-km		62.5	62.5 μm ± 3 μm
OM3-50/125		850nm ≥ 1500 MHz-km	Cladding Diameter	125 μm ± 1 μm	
		1300nm ≥ 500 MHz-km	Coating Diameter	250 μm ± 15 μm (colored)	
62.5/125		850nm ≥ 200 MHz-km			
		1300nm ≥ 500 MHz-km			

Mechanical Specification (added attenuation: dB)

Tensile and Bending Test	TIA/EIA-455-33	Singlemode ≤ 0.2 ; Multimode ≤ 0.3
Crush Resistance	TIA/EIA-455-41 (0.5 kgf / 1 mm)	Singlemode ≤ 0.2 ; Multimode ≤ 0.3
Cyclic Flexing	TIA/EIA-455-104	Singlemode ≤ 0.2 ; Multimode ≤ 0.3
Impact Resistance	TIA/EIA-455-25	Singlemode ≤ 0.2 ; Multimode ≤ 0.3
Cable Twist	TIA/EIA-455-85	Singlemode ≤ 0.2 ; Multimode ≤ 0.3

* Compliant with Telcordia GR-20-Core and EIA/TIA standard

Environmental Condition

Temperature Range	Storage	-40°C to +70°C
	Operating	-30°C to +70°C
	Installation	-30°C to +70°C

Ordering Information

Cable Type	Mini LT
Fiber Count	96, 144 or 216
Fiber Type	Singlemode: G.652D, G.657A Multimode: OM1, OM2 or OM3
Fiber Bundle	12
Jacket Type	PE Jacket