



Description

DME PROLINK™ Double Sheath Armored Outdoor MLT FO cable are typically used for outside plant (OSP) applications. These cables are suitable for direct burial as well as for duct/tray applications. This cable can be installed by trenching techniques. These cables can also be installed in ducts by standard pulling methods. This cable can be traced by means of metallic tracer machine in the field. The cable consists of color-coded optical fibers placed in multiple tubes containing Water Blocking gel and the cable core is surrounded with swellable tape to prevent water ingress in the interstices of cable core. Corrugated Steel Tape armor surrounds the inner sheath with thermoplastic jacket bonded to the armor layer making the cable robust and installation friendly.

The Fiber used in DME PROLINK's Fiber Optic cables, are made of pure silica and germanium doped silica. A UV curable acrylate material is applied over the Fiber Cladding as primary protective coating. DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

Features & Benefits

- Steel Tape Armor adds to crush resistance as well as can be used for cable locator after installation
- PE Jacket provide Rodent Protection along with improved Crush and Impact Protection
- UV Protected
- Easily removable rugged thermoplastic jacket
- Flexible, Light weight, easy to handle & install
- Excellent Tensile strength and Crush resistant

Construction of Fiber Optic Cable

Fiber count	24
Fiber Type	ITU-T G.652D
Maximum Cabled Attenuation (dB/km)	1310nm: 0.35 1550nm: 0.23
PMD LDV (ps/sqrt.km)	</= 0.1
Fibers per Tube Fibre Color Sequence	4 Blue, Orange, Green, Brown
Central Strength Member	FRP (Fibre Reinforced Plastic)
No of Tubes	6
Tube Color Sequence	Blue, Orange, Green, Brown, Slate, White
Peripheral Strength Members	High Strength Aramid Yarns
Inner Sheath Material	Black HDPE
No. of Ripcords below Inner Sheath	2
Metallic Armoring	Corrugated Steel Tape
No. of Ripcords below Tape	2
Outer Sheath Material	UV Proof HDPE (Black)
Cable OD	15.2 ± 0.5mm
Cable weight	205 kg/km ± 10%
Cable Length	6KM ± 5%

Standards Compliance:

- IEC 60793-1: Optical Fiber Part 1: Generic Specification
- IEC 60793-2: Optical Fiber Part 2: Product Specification
- IEC 60794
- ANSI/ICEA S-87-640
- Telcordia GR-20
- ITU-T / RoHS / REACH

Technical Assistance

Middle East HQ: +971 (4) 8118000

www.dmeprolink.com

Color code scheme for fibers: According to EIA/TIA 598

1	2	3	4
Blue	Orange	Green	Brown

Color code scheme for Tubes

1	2	3	4	5	6
Blue	Orange	Green	Brown	Slate	White

Mechanical & Environmental Characteristics of Fiber Optic Cable

Tensile Strength Short Term (IEC 60794-1-2-E1)	7000N	
Tensile Strength Long Term (IEC 60794-1-2-E1)	4000N	
Crush Resistance (IEC 60794-1-2-E3)	4000N/100mm	
Impact Resistance (IEC 60794-1-2-E4)	10 Nm	
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	
Water Penetration Test (IEC-60794-1-22-F5)	1m waterhead, 3m samples, 24 h	
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° to +70°C
	Operation	-40° to +70°C
	Storage	-40° to +70°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 Single Mode fiber and \leq 0.3 dB/km for Multimode fiber.

Part Number

D113-D247PEUPEST2DB	DME PROLINK™ Double Sheath Armored (Corrugated Steel Tape) Outdoor Fiber Optic Cable, 24 core, Multi Loose Tube, SM-G.652D, Inner Sheath: HDPE and Outer Sheath: UV Proof HDPE, Black
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