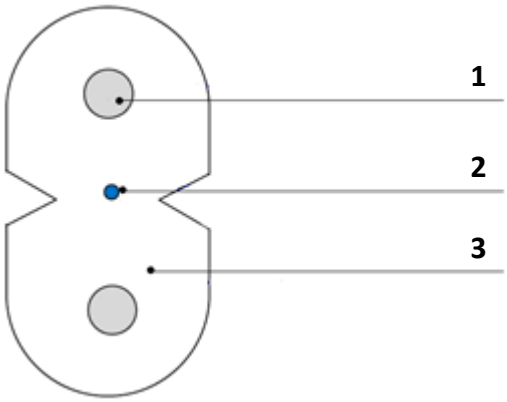
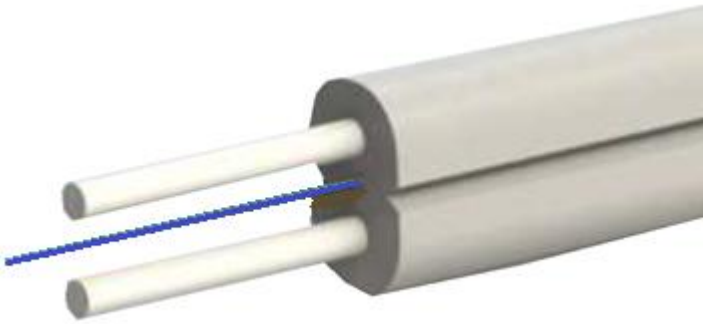
DME PROLINK Fiber Optic Drop Cable Indoor Single mode (Steel Wire) for FTTx





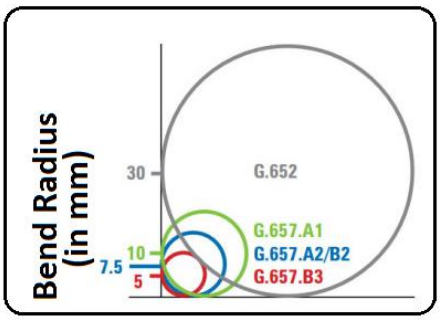
1. Strength Member (**Steel Wire**)
2. 1 Fiber **G.657A2**
3. Outer Sheath (**Low Friction LSZH**)

Description

DME PROLINK's 1-Core Indoor Drop Fiber cable is designed and manufactured to the highest standards. Available as Single-mode (G.657A2 compliant), it provides the bend-insensitivity and robustness essential to a successful FTTx deployment

The Steel wire strength member offers more than adequate strength to pull long lengths of this cable. 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



- Available as G.657A1/A2
- Approved by Service Providers
- LSZH and OFN Rated
- Predictable lifetime of 30 years
- Complies with Telcordia GR-20 core
- Color code scheme: According to EIA/TIA 598
- Compact Figure & Easy to Install
- Suitable for Indoor Connections within Multi Dwelling Units (MDU)
- Designed as per Taawun standards for FTTH Deployments and applications

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The Fiber within FO Drop cable are designed, Manufactured and tested according to below standards:

- IEC 60793-1: Optical Fiber Part 1: Generic Specification
- IEC 60793-2: Optical Fiber Part 2: Product Specification
- IEC 60794-2: Optical Fiber Cables Part 2 Indoor cables- Sectional Specification
- ITU-T G650: Definition and test methods for the relevant parameters of single-mode fibers
- ITU-T G.655: Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable
- ITU-T G.657: Characteristics of a bending-loss insensitive single-mode optical fiber

Optical Fiber G.657A2 Specification

Category	Description	Values	
		Before Cabling	After Cabling
Optical Specifications	Attenuation @1310 nm	≤0.35 dB/km	≤0.40 dB/km
	Attenuation @1550 nm	≤0.21 dB/km	≤0.30 dB/km
	Zero Dispersion Slope	≤0.092 ps/nm²·km	
	Zero Dispersion Wavelength	1300 – 1324 nm	
	Cable Cutoff Wavelength (λcc)	≤1260 nm	
	Macro bending Loss (10 turns; Φ30 mm) @1550 nm (10 turns; Φ30 mm) @1625 nm (1 turn; Φ20 mm) @1550 nm (1 turn; Φ20 mm) @1625 nm 1 turn; Φ15 mm) @1550 nm (1 turn; Φ15 mm) @1625 nm	≤ 0.03 dB ≤ 0.10dB ≤ 0.10 dB ≤ 0.20 dB ≤ 0.50 dB ≤ 1.00 dB	
	Mode Field Diameter @1310 nm	8.6 ± 0.4μm	
Dimensional Specifications	Cladding Diameter	125 ±1μm	
	Cladding non circularity	≤1.0%	
	Coating diameter	245 ± 7μm	
	Coating non circularity	≤ 6%	
	Cladding / coating concentricity error	≤ 6μm	
	Core/clad concentricity error	≤0.6μm	
Mechanical Specifications	Proof stress	≥1.05%	
Environmental Specification	Operation temperature range	-20℃ to + 60℃	
	Installation temperature range	-20℃ to + 60℃	
	Transport and storage temperature range	-20℃ to + 60℃	

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Physical / Mechanical Characteristics of Fiber Optic Cable

Physical	**Fiber count**	**1 G.657A2**
	Tight buffer fiber diameter	0.9mm ± 50μm
	Strength member	Steel Wire
	Cable OD	(2.0*3.0mm) ± 5%
	Cable weight	10 kg/km ± 15%
Mechanical	Max. tensile load	Min. 220N
	Crush resistance	1000N/100mm
	Minimal installation bending radius	30mm
	Minimal operation bending radius	15mm

Color Code Scheme

Fiber Color	Blue
Sheath	White

Routine Factory tests of single-mode fiber

Parameters	Test Standards
Mode field diameter	IEC 60793-1-45.
Mode field Core/clad concentricity	IEC 60793-1-20
Cladding diameter	IEC 60793-1-20
Cladding non-circularity	IEC 60793-1-20
Attenuation coefficient	IEC 60793-1-40
Chromatic dispersion	IEC 60793-1-42
Cable cut-off wavelength	IEC 60793-1-44

Part Number

D1149-ID177A2WT-S	**Fiber Optic Indoor Drop Cable, 1 Core, Single-mode OS2, LSZH, G.657A2, White with Steel Strength Member**