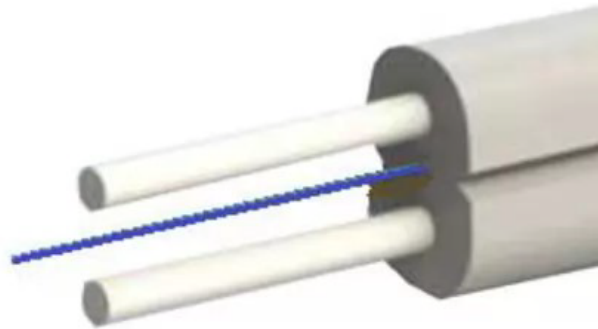


1 CORE INDOOR DROP FO CABLE WITH STEEL WIRE

TN7008ID1CSW



Description

TEXA NETWORK'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 strengthmember offers more than adequate strength to pull long lengths of this cable. The Fiber used in TEXA NETWORK'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. TEXA NETWORK's 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

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

- IEC60793-1:OpticalFiberPart1:GenericSpecification
- IEC60793-2:OpticalFiberPart2:ProductSpecification
- IEC60794-2:OpticalFiberCablesPart2Indoorcables-SectionalSpecification
- ITU-TG650:Definitionandtestmethodsfortherelevantparametersofsingle-modefibers
- ITU-TG.655:Characteristicsofanon-zero dispersion-shiftedsingle-modeopticalfiberandcable
- ITU-TG.657:Characteristicsofabending-lossinsensitivesingle-modeopticalfiber

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/nm ² ·km	
	Zero Dispersion Wavelength	1300 –1324 nm	
	Cable Cutoff Wavelength (λ _{cc})	≤1260 nm	
	Macro bending Loss (10 turns; Φ30 mm) @1550 nm	≤ 0.03 dB	
	(10 turns; Φ30 mm) @1625 nm	≤ 0.10dB	
	(1 turn; Φ20 mm) @1550 nm	≤ 0.10 dB	
	(1 turn; Φ20 mm) @1625 nm	≤ 0.20 dB	
	(1 turn; Φ15 mm) @1550 nm	≤ 0.50 dB	
(1 turn; Φ15 mm) @1625 nm	≤ 1.00 dB		
Dimensional Specifications	Mode Field Diameter@1310 nm	8.6 ±0.4μm	
	Cladding Diameter	125±1μm	
	Cladding non circularity	≤1.0%	
	Coating diameter	≤ 6%	
	Coating non circularity	≤6μm	
	Cladding / coating concentricity error	≤0.6μm	
Mechanical Specifications	Core/clad concentricity error	≥1.05%	
	Proof stress	≥1.05%	
Environmental Specification	Operation temperature range	-20°C to + 60°C	
	Installation temperature range	-20°C to + 60°C	
	Transport and storage temperature range	-20°C to + 60°C	

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

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