

Technical
Data Sheet

mini Drop Optical Cable

Drop cable with 2f

Dual Strength Members
Single Jacket - Reduced Diameter

FTTx Applications

Application

Our mini drop optical cable is used in the last portion of an all-optical network, such as fiber-to-the-home (FTTH) or fiber-to-the-business (FTTB) networks. Acts as a bridge between the distribution network and the subscriber premises.

Benefits

- Fiber Count of 2f
- Easy access to optical fibers
- All dielectric design eliminates grounding and/or bonding
- Rapid deployment
- Single PE or HFFR Jacket suitable for indoor/outdoor applications
- Reduced diameter

Fiber types

- G.651 multi-mode fiber
- G.652D single-mode fiber
- G.657 Bend-insensitive single-mode fiber

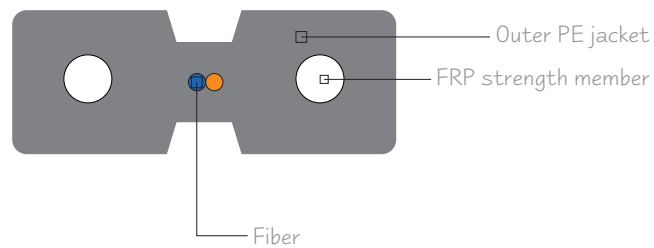
Full range of applications

- Outdoor
- Indoor
- Aerial

Optional protections

- HFFR Outer Jacket

Cable cut-away



Typical parameters

Number of fibers	2
Nominal outer diameter	4.0 mm (0.16 in.) X 2.0 mm (0.08 in.)
Cable weight	12 kg/km (8 lb/kft)
Max. bend radius	120 mm (4.72 in.)
Max. installation tension	200 N (45 lbf)
Operating temperature range	-40 °C / 70 °C (-40 °F / 158 °F)



Qualifications & Approvals

Bellcore Standards
ITU Standards
TIA/EIA Standards

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Cable Properties

2 fibers FTTx cable
2 FRP rod strength elements
MDPE or HFFR outer jacket

Basic optical fiber	All MM and SM type fiber
Strength member	2 FRP rod, 0.5 mm (0.02 in.) O.D.
Color of fibers	Blue & Orange
Outer Jacket	Black PE or HFFR 0.75±0.1 mm (0.03±0.01 in.) nominal thickness
Approximate overall diameter	4.0 mm (0.16 in.) / 2.0 mm (0.08 in.)

Mechanical Performance	Test Procedure	Specification
Tensile strength test	IEC 60794-1-2 E1	200 N (during installation)
Impact resistance	IEC 60794-1-2 E4	10 J, 3 Impacts
Crush test	IEC 60794-1-2 E3	220 N/cm
Temperature cycling	IEC 60794-1-2 F1	-40°C / 70 °C (-40 °F / 158 °F)
Bend radius (during installation)	IEC 60794-1-2 E11	30x Cable diameter
Bend radius (during service)	IEC 60794-1-2 E11	15x Cable diameter
Flame retardancy (HFFR option)	IEC 60332-1	According to IEC 60332-1



Specifications are subject to change without notice. The data given is subject to normal manufacturing tolerances.
4SProducts Loose Tube Optical Cables are tested in accordance with the requirements of Bellcore GR-20.
Performance specifications are measured per IEC Fiber Optic Test Procedures.

