LB-FD series

technetix

Technetix' pre-terminated outside plant (OSP) cables provide easy fiber to the x (FTTx) installation and termination using existing hardware and installation methods for drops to homes and businesses. Its small profile is a major space saving feature. It is designed for rapid connection to external flush-mounted bulkhead adapters on terminals or closures.

The ruggedized SuperTap connector is an outside plant hardened SC/APC connector compatible with industry standard legacy OSP terminals. The hardened single-fiber drop cable assembly is specifically designed to significantly reduce the time and effort required for drop cable installation.

The 5.0 mm LSZH round fiber cable is also available with a special type of interchangeable connector. This new universally interchangeable connector is designed to make the installation procedure much simpler, and it provides the most cost-effective and quick method of deploying fiber in outside plant distribution networks. The new universally interchangeable connector is compatible with various industry standards and legacy hardened connector systems making it versatile for deploying FTTx solutions. The connector assembly is a guaranteed easy one-step connection system with combined push-pull insertion and nut-style mechanical latch.
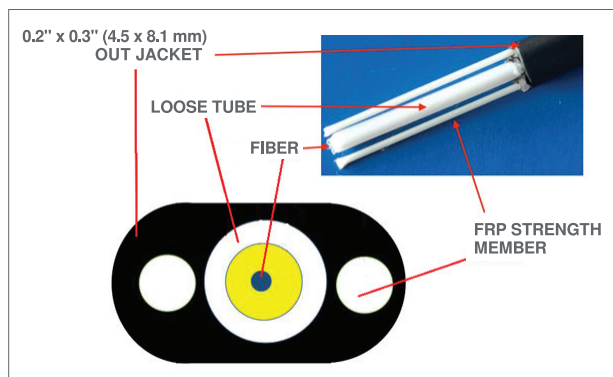
Each universally interchangeable cable comes with 3 adapter types – a standard SC/APC adapter, a Corning® OptiTap®-style adapter and a Huawei® Fiber Access Terminal-style adapter. Just screw on the adapter type needed for the application. This streamlines the field installation logistics and ordering for operators who use multiple types of hardened connector systems and terminals.
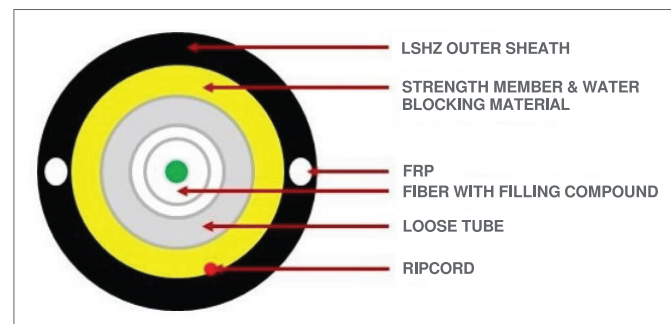

LB-FD
(multiple views)

FEATURES

- Smaller profile and reduced bend radius
- Robust design keeps connector intact during installation
- Compatible with legacy hardened connector systems
- Integral pulling eye/connector cap designed for 100 lb maximum pulling tension
- Available with one or both ends connectorized

- Hybrid (one end with a SuperTap connector and other end with standard SC connector or SuperTap connector)
- Designed for aerial, direct-buried or duct installation
- Two options of cable to choose from: PE Flat cable or LSZH round cable
- Also available with a universally interchangeable connector

FLAT DROP DIELECTRIC FIBER BLOCK DIAGRAM

0.2'' x 0.3'' (4.5 x 8.1 mm)
OUT JACKET

LOOSE TUBE

FIBER

FRP STRENGTH MEMBER

5.0 MM (0.2'') ROUND FIBER BLOCK DIAGRAM

LSHZ OUTER SHEATH

STRENGTH MEMBER & WATER BLOCKING MATERIAL

FRP
FIBER WITH FILLING COMPOUND

LOOSE TUBE

RIPCORD

SPECIFICATIONS

Parameter		Specification
Number of Fibers		1
Fiber Type		G657A1 & G657A2
Strength Member	Material	Fiberglass-reinforced plastic (FRP)
	Diameter	0.07" (1.8 mm) ± 0.1 mm
Loose Tube	Material	Polybutylene terephthalate (PBT)
	Diameter	0.08" or 0.12" (2.0 mm or 3.0 mm)
	Color	White or customized
Outer Sheath	Material	Polyethylene (PE) for flat drop cable; low smoke zero halogen (LSZH) for round cable
	Color	Black
	Thickness	0.04" (0.9 mm) ± 0.1 mm
Cable Length		Customized
Connector #1		SuperTap SC/APC connector or universally interchangeable connector
Connector #2		Standard SC/APC or SuperTap SC/APC connector or no connector
Insertion Loss	Typical	≤ 0.15 dB
	Max.	≤ 0.30 dB
Return Loss		≥ 65 dB
Mechanical		
Bending Radius (Min.) (mm)	Long-term	15D
	Short-term	30D
Allowable Tensile Strength (N)	Long-term	1000
	Short-term	2000
Crush Load (N/100 mm)	Long-term	600
	Short-term	1200
Environmental & Physical		
Installation Temperature		-20°C to +60°C (-4°F to +140°F)
Operating & Transport Temperature		-40°C to +85°C (-40°F to +185°F)
Dimensions (H x W) Flat Drop Cable		0.2"H x 0.3"W (4.5H x 8.1W mm) ± 0.2 mm
Dimensions Round Cable		5.0 mm (0.2") cable radius; 10.0 mm (0.4") diameter
Weight/km of Cable		79.4 lb (36.0 kg) ± 1 kg

ORDERING INFORMATION

	Cable Type	Connector #1	Connector #2	Cable Length
LB-FD -	x	ST	xx	xxxx
	X = 4.5 x 8.1 mm dielectric cable	ST = SuperTap SC/APC connector	00 = No connector (pigtail)	50F = 50' (15.2 m)
	R = 5.0 mm round cable	UI = Universally interchangeable connector [1]	ST = SuperTap SC/APC connector	100F = 100' (30.5 m)
			SA = Regular SC/APC connector	200F = 200' (61.0 m)
				300F = 300' (91.4 m)
				400F = 400' (121.9 m)
				500F = 500' (152.4 m)
				600F = 600' (182.9 m)
				800F = 800' (243.8 m)
				1000F = 1000' (304.8 m)

NOTE:

(1) The universally interchangeable connector is only available with 5.0 mm round cable

EXAMPLE:
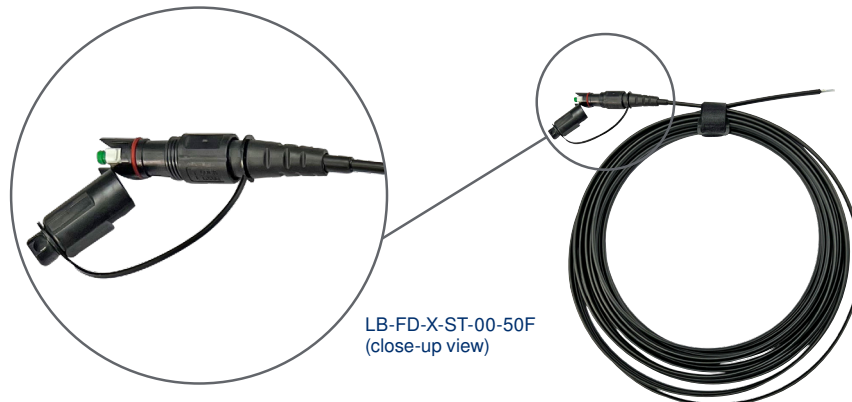
Part # LB-FD-X-ST-00-100F

4.5 x 8.1 mm dielectric flat drop cable with SuperTap SC/APC connector on one end, other end unterminated, 100' (30.5 m) length, for use with LB-FST & LB-MST

technetix

LB-FD series

DIELECTRIC FLAT DROP CABLE

LB-FD-X-ST-00-50F
(close-up view)

ROUND CABLE

LB-FD-R-UI with
3 connectors
(close-up view)
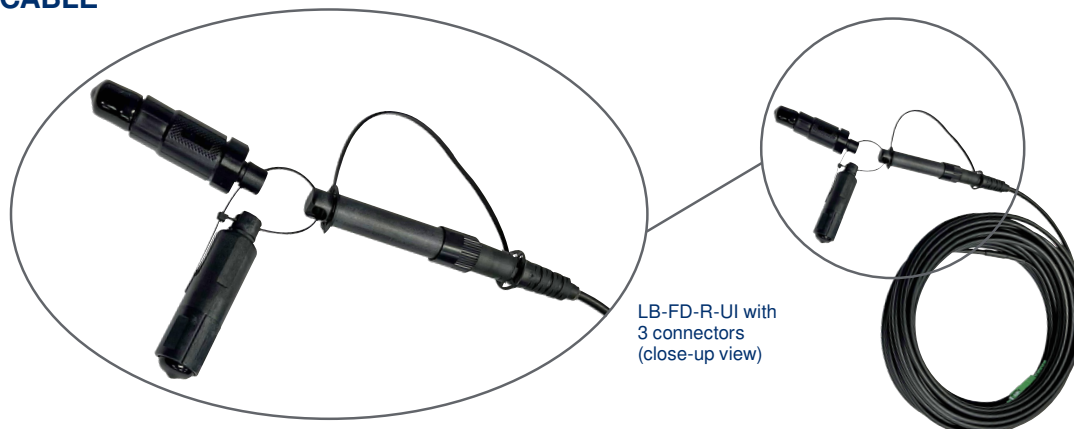
Corning OptiTap-style
connector
(close-up view)

Standard SC/APC
connector
(close-up view)

Huawei Fiber Access
Terminal-style connector
(close-up view)

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