

LP-OC16XX Optical Cable with Loose Tubes, Single PE Jacket, Steel wire/stranded core strength member, Dry Water Block, Corrugated Steel Tape and Ripcord

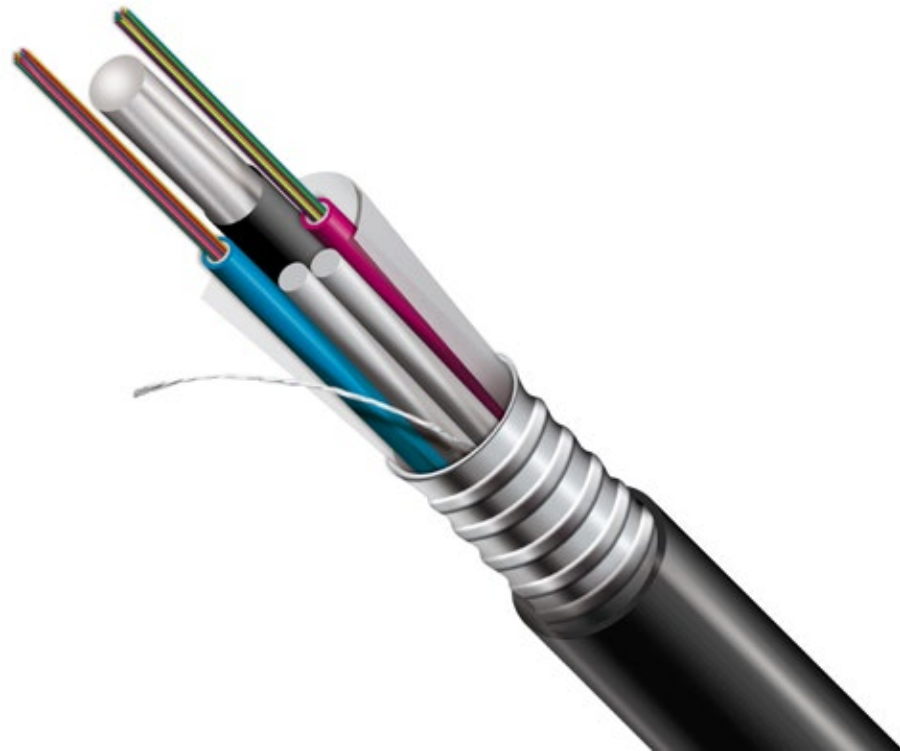
LPOC16XX_PFD_ENB01W

Features

- Loose tube gel-filled construction for superior fiber protection.
- UV- and moisture-resistant design.
- Dry Water Block for ease of handling.
- Corrugated steel tape armor for better rodent and crushing protection.
- Steel wire Stranded Core central strength member.

Applications

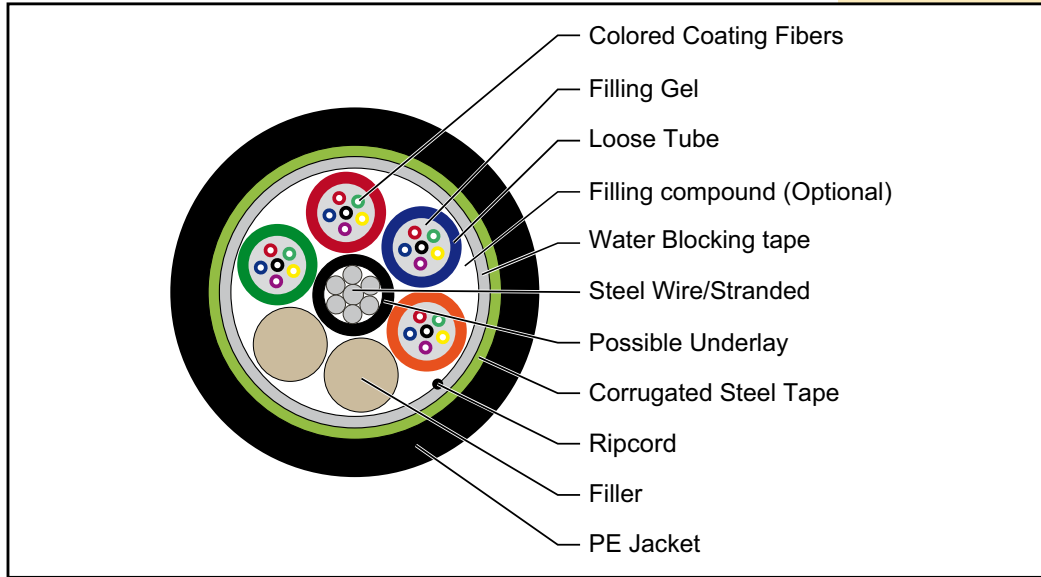
- Interbuilding voice or data communication backbones.
- Installed in ducts, underground conduit or aerial/lashed.
- Indoor/outdoor applications.
- Long-haul communication systems.
- Junction Communication systems.
- Subscriber network systems.
- Local area network systems.

**LP-OC16XX
Optical Cable with Loose Tubes, Single PE Jacket,
Steel wire/stranded Core strength member,
Dry Water Block, Corrugated Steel Tape and Ripcord**

The **LP-OC16XX** is a family of Fiber Optic Cables that the industry called an Outside Plant Cable for underground conduits or ducts or in aerial/lashed deployment.

These cables are constructed by Loose Tubes, armor with corrugated steel tape for rodent a crushing protection, Central Steel wire/stranded strength member and moisture barrier inner sheathed, protected by a black external PE jacket UV- and moisture- resistant design.

A Cable Section



B Product Construction

Fibers:

- 002-144 fibers.
- Loose tube gel-filled.
- Color-coding per TIA/EIA 598 B.

Central Strength Member

- Steel wire/stranded with possible underlay.

Armor:

- Corrugated steel tape armor for better rodent and crushing protection.

Jacket:

- Black UV- and moisture-resistant polyethylene (PE) and Corrugated Steel Tape.
- Sequential meter markings standard/ Footage optional.

Compliances:

- ANSI/TIA/EIA 568 B.3.
- ICEA S-87-640.
- Rural Utilities Service (RUS) 7 CFR 1755.900 (REA PE-90).
- GR-20.
- RoHS Compliant Directive 2002/95/EC.

C Dimensional Characteristics

Fiber Count	Max. Number of fibers per tube	Strength member diameter	Stranded Units	Nominal Cable Diameter (mm)	Nominal Cable Weight (Kg/Km)
2-30	6	1.6	5	10.8	130
32-36	12	2.3	6	11.6	160
38-60	12	2.0	5	12.3	167
62-72	12	2.3	6	13.1	193
74-96	12	2.3	8	14.8	230
98-120	12	2.3	10	16.5	277
122-144	12	2.3	12	18.5	335

D Mechanical & Environmental Characteristics

Characteristics	2-60 Fibers	62-144 Fibers
Tensile Strength	1500 N	3000 N
Crush Resistance	1000N/100mm	
Minimum Bending Radius		
During Installation	20 x Diameter	
After Installation	10 x Diameter	
Temperature range		
Storage	-50 °C to + 70 °C	
Operating	-40 °C to + 60 °C	

E List of Fibers

FIBER TYPE	LANPRO	CORNING® OPTICAL FIBER	DESCRIPTION	COD MFGR
Standard Loose Tube SM	ZC	SMF-28e+™ Fiber	Full spectrum, low water peak singlemode, ITU-T G.652.D	B1.3 (G652D) P
Performance Loose Tube SM	ZB	SMF-28e+™ Fiber	Full spectrum, high performance low water peak singlemode with 0.35/0.25 attenuation, ITU-T G.652. D	
Tight Buffer SM	ZE	SMF-28e+™ Fiber	Full spectrum, low water peak singlemode with 900 µm PVC buffer, ITU-T G.652.D	
Long-Haul SM	ZG	LEAF® Fiber	Large Aeff, low water peak, NZ-DSF singlemode, ITU-T G.655	
Ultra-Bendable SM A3/B3	ZA	ClearCurve® ZBL	Full spectrum with best macrobending performance, ITU-T G.657.A3/B3	Full spectrum bend-insensitive single mode fiber with virtually zero bend loss in most indoor applications
Ultra-Bendable SM A2/B2	ZD	ClearCurve® LBL	Full spectrum with best macrobending performance, ITU-T G.657.A2/B2	Full spectrum bend-insensitive single mode fiber with low bend loss
Ultra-Bendable SM A1/B1	ZF	ClearCurve® XB	Full spectrum with best macrobending performance, ITU-T G.657.A1/B1	Full spectrum single mode fiber with enhanced bend capability
62.5 µm MM OM1	QG	InfiniCor® 300 Fiber	1 Gb/s ≤ 300 m a 850 nm, OM1* 1 Gb/s ≤ 550 m a 1300 nm	

E List of Fibers

FIBER TYPE	LANPRO	CORNING® OPTICAL FIBER	DESCRIPTION	COD MFGR
62.5 μm MM OM1	QL	InfiniCor® CL™ 1000 Fiber	1 Gb/s ≤ 500 m a 850 nm, OM1* 1 Gb/s ≤ 1000 m a 1300 nm	IEC 60793-2-10 Type A1b
Ultra-bendable 50 μm MM OM2	BI	ClearCurve® OM2 Fiber	10 Gb/s ≤ 150 m a 850 nm, OM2* 1 Gb/s ≤ 750 m a 850 nm	IEC 60793-2-10 Type A1a
Ultra-bendable 50 μm MM OM3	TP	ClearCurve® OM3 Fiber	10 Gb/s ≤ 300 m a 850 nm, OM3* 1 Gb/s ≤ 1000 m a 850 nm	
Ultra-bendable 50 μm MM OM4	TG	ClearCurve® OM4 Fiber	10 Gb/s ≤ 550 m a 850 nm, OM4* 1 Gb/s ≤ 1100 m a 850 nm	
Ultra-bendable 50 μm MM OM4	TI	ClearCurve® OM4+ Fiber	10 Gb/s ≤ 600 m a 850 nm, OM4+* 1 Gb/s ≤ 1100 m a 850 nm	

F How to Order

LP-OC1612CCC4FF

LP-OC16		12
Loose Tubes, Single PE Jacket, Steel wire/stranded Core strength member, Dry Water Block, Corrugated Steel Tape and Ripcord		Jacket Suffix: Dry Water Block with Ripcord
CCC	4	FF
Fiber Count: 002-144	Buffer Construction: Multi-fiber loose Tube (Gel- Filled).	Fiber Type: Any core of the above List

Examples:

LP-OC16120044QL	Optical Cable with 4 multimode 62.5/125-IEC 60793-2-10 Type A1b fibers, Loose Tubes, Single PE Jacket, Steel wire/stranded Core strength member, Dry Water Block, Corrugated Steel Tape and Ripcord.
LP-OC16120044ZC	Optical Cable with 4 singlemode 9/125, full spectrum, low water peak ITU-T G.652.D/B1.3 fibers, Loose Tubes, Single PE Jacket, Steel wire/stranded Core strength member, Dry Water Block, Corrugated Steel Tape and Ripcord.

LanPro is continuously improving its products and reserves the right to change specifications and availability without prior notice.