

LP-OC25XX Tiny™ Series, Tight Buffer Indoor/Light Outdoor Distribution Fiber Optical Cable with Black UV ready-LSZH rated jacket, Dry Water Block Cable Core with superabsorbent coated Multi-Fiber Aramid® yarns for strength.

LPOC25XX_PFD_ENB01W

Features

- Superabsorbent SAA® coated Aramid® Yarn-filled construction for superior fiber protection.
- Lightweight, flexible design simplifies installation.
- Tight buffer provides individual fiber protection.
- Tight buffered fibers are easy to handle and strip for field connectorization.
- Good mechanical and temperature performance.
- Good crush resistance water blocking and flexibility.
- Lightweight, all dielectric self-supporting (ADSS) construction is ideal for use near electrical power lines.
- LSZH or LSZH-3 or LSZHFR or LSHF FR rated jacket with UV protection for light outdoor use.
- Cable extensions (Plug & Play) can be manufactured with a MTP male connector at one end and a MTP female connector at the other.

Applications

- Used in Indoor/Light Outdoor cabling.
- FTTH Cable (Fiber to the home).
- Inter-building voice or data communication backbones.
- Installed in ducts, underground conduit or aerial/lashed.
- Ideal for backbones and horizontal distribution on buildings.



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Distribution Fiber Optical Cable with Black UV
ready-LSZH rated jacket, Dry Water Block Cable Core
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The **LP-OC25XX Tiny™ Series** of Fiber Optic Indoor/Outdoor Cables are designed to meet the environmental requirements typical of outside plant cable and the flammability, fume and smoke requirements of premise applications. Due to the non-metallic construction, they may be installed in areas of high intensity electric fields (Ex. high voltage lines and in vicinity of high lightning density areas)

Whether for indoor or outdoor use LanPro's **Tiny™ Series** eliminates the expensive and space-consuming interconnection points at the premises entrance and improves the system loss budget. Less splicing, less connectors, less losses!

Our indoor/outdoor cables are extremely efficient when used to directly connect equipment, data closets on any location or floor, in different buildings or to connect a manhole location to an equipment room.

Our **Tiny™ Series** product (Indoor/Outdoor fiber optic cables) are tight buffer (900 µm) design, with constructions available in a variety of configurations and LSZH UV resistant to cover riser and plenum requirements for indoor cable and the ability to be run in duct aerial/lashed in the outdoor. (Not recommended for direct burial as is not shielded). Enormous reduction of structure cost by eliminating boxes, mechanical splices, etc., simplifying cable handling and improving flexibility with the choice of building entrances.

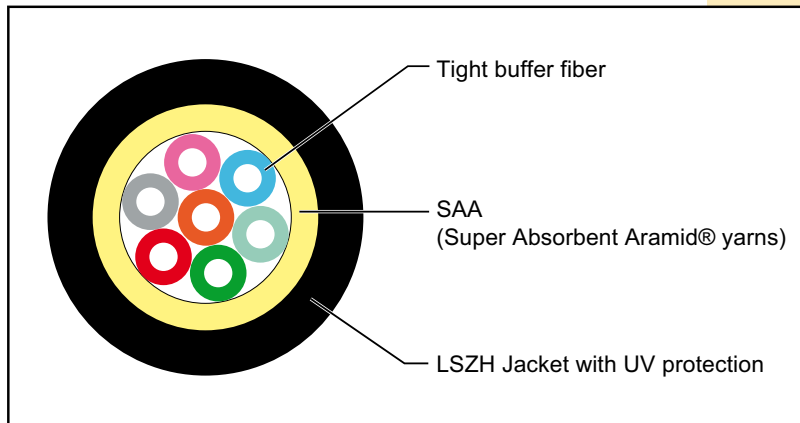
Tight buffer design allow direct termination of fibers with industry-standard connectors and techniques. Loose tube design provides more fiber protection in harsh outdoor environments and are readily spliced to other existing cables. Our cores are surrounded with dry water blocking technology as form of aramid water absorbent material to protect the cores and provide a clean fiber solution without the mess of gel infused traditional cables.

The use of SAA® (Super Absorbent Aramid®) Multi-Fiber Aramid® yarns found in the cable is an excellent means of producing a dry cable design. It can absorb several times its weight in water, and guarantees the performance even if the cable is exposed to humidity; plus it is ideal as a strength member (as ensures tension-resistance and long-term stability in the field).

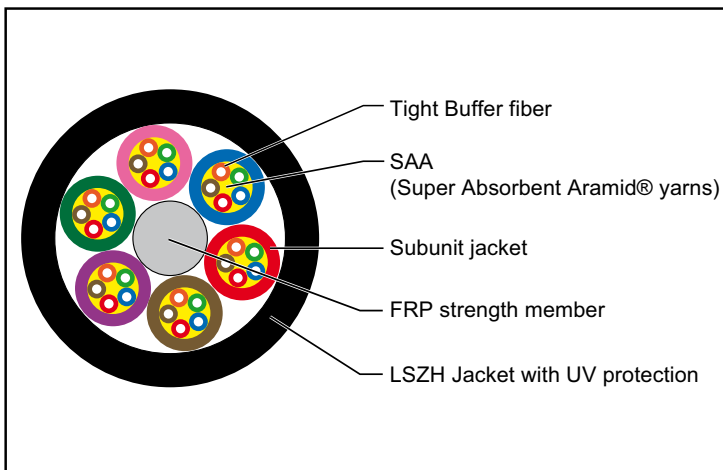
For the technician, **Tiny™** cable possesses the properties of small outer diameter, light-weight, easy to strip, low attenuation and mechanically soft.

A large number of **Tiny™** cables fit inside a small diameter conduit.

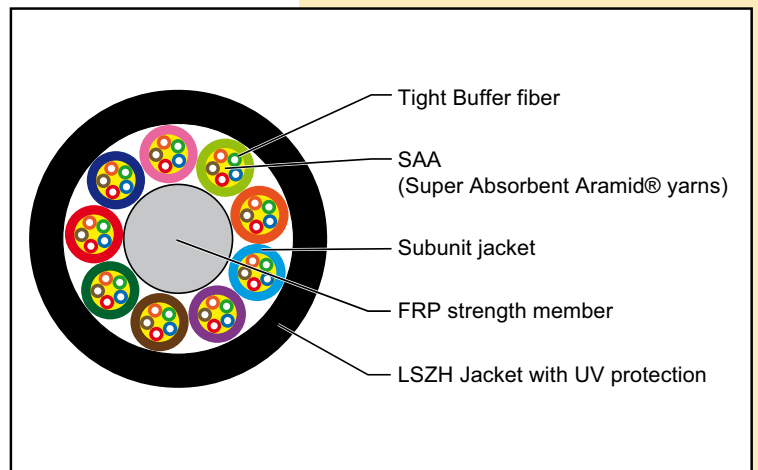
A Cable Section



2 - 12 Fibers



24 - 36 Fibers



48 - 144 Fibers

B Product Construction

Fiber:

- 2-144 fibers.
- 900±50um tight buffered.
- Color-coding per TIA/EIA 598 B.

Core Reinforce:

- Aramid® yarns.

Strength Member:

- Super absorbent coated Aramid® yarns (2-12 fibers).
- FRP (Fiber Reinforced Plastic) (24-144 fibers).

Jacket:

- Black UV LSZH outer sheath.
- Sequential meter markings standard/Footage optional.
- Safe and easy to strip.

Compliances:

- ANSI/TIA/EIA 568 D. ISO/IEC 11801.
- IEC794-1
- IEC332-1
- IEC332-3C (optional)

C Dimensional Characteristics

FIBER COUNT	CABLE DIAMETER (mm)	CABLE WEIGHT (kg/km)
2	3.2	11.3
4	4.8	21.6
6	5.1	25.5
8	5.6	31.4
10	5.8	35.0
12	6.2	40.3
24	13.2	136
30	14.4	166
36	15.6	199
48	14.7	177
60	16.0	217
72	17.4	266
96	20.6	382
108	22.2	449
144	26.9	687

D Mechanical and environmental Characteristics

CHARACTERISTICS	2-12 FIBERS	24-36 FIBERS	48-144 FIBERS
Max. Loading (IEC794-1)			
Installation	600N	1320N	1320N
Operation	200N	400N	400N
Min. Bend Radius (IEC794-1)			
Long Term	20 x D		
Short Term	10 x D		
Crush resistance (IEC794-1)	1000N/100mm		
Temperature rating			
Operation	-10°C to + 60°C		
Storage	-10°C to + 60°C		

E List of fiber Cores

FIBER TYPE	LANPRO	DESCRIPTION	COD MFGR
Standard Loose Tube SM	ZC	Full spectrum, low water peak singlemode, ITU-T G.652.D	B1.3 (G652D) P
Performance Loose Tube SM	ZB	Full spectrum, high performance low water peak singlemode with 0.35/0.25 attenuation, ITU-T G.652. D	
Tight Buffer SM	ZE	Full spectrum, low water peak singlemode with 900 µm PVC buffer, ITU-T G.652.D	
Long-Haul SM	ZG	Large Aeff, low water peak, NZ-DSF singlemode, ITU-T G.655	
Ultra-Bendable SM A3/B3	ZA	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	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	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	1 Gb/s ≤ 300 m a 850 nm, OM1* 1 Gb/s ≤ 550 m a 1300 nm	

E List of fiber Cores

FIBER TYPE	LANPRO	DESCRIPTION	COD MFR
62.5 µm MM OM1	QL	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	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	10 Gb/s ≤ 300 m a 850 nm, OM3* 1 Gb/s ≤ 1000 m a 850 nm	
Ultra-bendable 50 µm MM OM4	TG	10 Gb/s ≤ 550 m a 850 nm, OM4* 1 Gb/s ≤ 1100 m a 850 nm	
Ultra-bendable 50 µm MM OM4	TI	10 Gb/s ≤ 600 m a 850 nm, OM4+* 1 Gb/s ≤ 1100 m a 850 nm	

F How to order

LP-OC2513CCC1FF

LP-OC25		13
Tight Buffer Indoor/Light Outdoor Distribution Fiber Optical Cable with Black UV ready-LSZH rated jacket, Dry Water Block Cable Core with superabsorbent coated Multi-Fiber Aramid® yarns for strength.		Jacket Suffix Dry Water Block Cable core
CCC	1	FF
Fiber Count 002-144	Buffer Construction Tight Buffer	Fiber type Any core of the above list

Examples

LP-OC25130061TP	6 Tight Buffer fibers multimode OM3, Indoor/Light Outdoor Distribution Fiber Optical Cable with Black UV ready-LSZH rated jacket, Dry Water Block Cable Core with superabsorbent coated Multi-Fiber Aramid® SAA® yarns for strength.
LP-OC25130061TG	6 Tight Buffer fibers multimode OM4, Indoor/Light Outdoor Distribution Fiber Optical Cable with Black UV ready-LSZH rated jacket, Dry Water Block Cable Core with superabsorbent coated Multi-Fiber Aramid® SAA® yarns for strength.

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