**LEVITON**®

Distribution Indoor/Outdoor (I/O) Plenum-Rated Optical Cables

APPLICATION

Leviton's plenum rated Indoor/Outdoor tight-buffer cables are designed for LAN/WAN campus and building backbone infrastructure. These plenum jacketed cables are suitable for indoor and outdoor installations in conduit, below the frost line. The cables are designed for operation across wide temperature variations (-40C to 75C), typically addressed by outside plant cables. The 900µm tight buffered fiber does not require buffer tube fanout kits and is ready for direct termination. The fiber types available (OM3, OM4 and OS2) can support Ethernet, Fiber Channel and PON applications.

900 µm Tight-Buffered Fiber

Plenum Jacket

Aramid Yarn Reinforcement
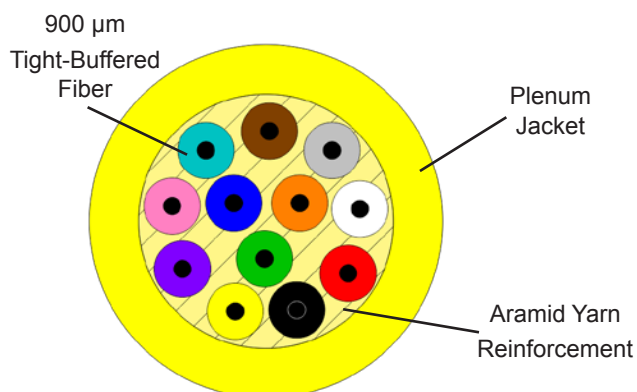
12-Fiber OS2
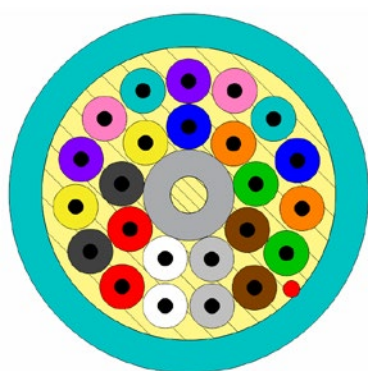
24-Fiber OM4

DESIGN CONSIDERATIONS

- Fungus resistant jacket
- Sunlight resistant per UL 444 clause 7.22
- For use in conduit below frost line
- Tight buffer cables not suitable for aerial lashed installations
- All dielectric design
- Fiber counts: 6, 12 and 24
- Fiber types: OM3, OM4 and OS2 (G.652.D and G.657.A1)

STANDARDS & REGULATIONS

- International EN 50173; ISO/IEC 11801
- National ANSI/ICEA S-104-696; ANSI/ICEA S-83-596; ANSI/TIA-568.3-D; NFPA 130; Telcordia GR-409

FIRE RATING

Plenum OFNP

WARRANTY INFORMATION

For Leviton product warranties, go to leviton.com/warranty

PHYSICAL PROPERTIES		
Installation tensile strength	6 fibers	445 N / 100 lbs
	12 fibers	445 N / 100 lbs
	24 fibers	667 N / 150 lbs
Long-term tensile strength	6 fibers	133 N / 30 lbs
	12 fibers	133 N / 30 lbs
	24 fibers	200 N / 45 lbs
Compressive strength (Crush)	6 fibers	100 N/cm
	12 fibers	100 N/cm
	24 fibers	100 N/cm
Impact	2 at 2.94 N-m	
Temperature	Operation: -40 °C to 75 °C Installation: 0 °C to 75 °C Storage: -40 °C to 85 °C	

CONSTRUCTION	
Fiber	6, 12 and 24 tight-buffered fibers, 900 µm
Jacket	Plenum
Color	OM3 & OM4: Aqua; OS2: Yellow

MECHANICAL PROPERTIES			
Fiber count	Nominal diameter	Nominal cable weight	Minimum bending radius Long term/short term
6	4.3 mm / 0.17 in	17 kg/km	4.3 cm / 6.5 cm
12	5.2 mm / 0.205 in	24 kg/km	5.2 cm / 7.8 cm
24	7.0 mm / 0.275 in	49 kg/km	7 cm / 10.5 cm

DOM3P-xx1, DOM4P-xx1, D008P-xx1

TRANSMISSION CHARACTERISTICS

50/125 µm	OM3 Multimode	OM4 Multimode
Attenuation (of cable with fibers)		
Maximum value of cable at 850 nm	≤ 3.0 dB/km	≤ 3.0 dB/km
Maximum value of cable at 1300 nm	≤ 1.0 dB/km	≤ 1.0 dB/km
Numerical Aperture	0.200 ± 0.015	0.200 ± 0.015
Bandwidth		
Effective Modal BW value at 850 nm	2000 MHz·km	4700 MHz·km
OFL value at 850 nm	1500 MHz·km	3500 MHz·km
OFL value at 1300 nm	500 MHz·km	500 MHz·km
1 GbE Transmission Distance (meters) 850/1300 nm	1000/600	1040/600
10 GbE Transmission Distance (meters) 850/1300 nm	300/300	550/300
9.2/125 µm	**OS2 Single-mode (G.652.D and G.657.A1)**	
Attenuation (of cable with fibers)		
1310 nm - 1625 nm	≤ 0.5 dB/km	
1550 nm	≤ 0.5 dB/km	
Numerical Aperture	0.14	
Transmission Distance		
1 GbE Distance (meters)	>5,000 @1310 nm	
10 GbE Distance (meters)	>10,000 @1310 nm	

PART NUMBERS

Description	Part No.
OM3 Premise Distribution I/O Plenum, 1km spool of cable	DOM3P-xx1
OM4 Premise Distribution I/O Plenum, 1km spool of cable	DOM4P-xx1
OS2 Premise Distribution I/O Plenum, 1km spool of cable	D008P-xx1

xx = fiber count: (06) 6 fibers, (12) 12 fibers, (24) 24 fibers.
Note: All packaging is 1,000 meter drum reel.

For further support information, visit leviton.com/ns/support

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