PROTERIAL

Indoor Tight Buffered Multi-Unit Plenum

Plenum - Multimode & Single Mode - 24 through 72 fibers
(UL) OFNP c(UL) OFNP FT6

FEATURES & BENEFITS

- RoHS 3 compliant
- Made in U.S.A.
- 900 micron buffered design recommended for easy termination
- All multimode, and singlemode cables (except OM1) utilize bend-insensitive optical fibers
- Each fiber is color coded for easy identification
- Ideal intra-building cable solution
- Flexible and easy to handle
- Compact distribution design
- Lightweight, flexible aramid yarns enhance strength.

OPTIONS

- Enhanced bend insensitive OS2 optical fiber is available (ITU-T G.657.B3 & G.657. A2)
- Standard jacket colors are:
  Yellow: OS2
  Orange: OM1
  Aqua: OM3 & OM4

Note: Erika Violet for OM4 is available.

APPLICATIONS

- Applications include 10, 40 & 100 gigabit Ethernet, Fiber Channel, Video, Security, Automation

STANDARDS

- ANSI/TIA-568.3-D
- ISO/IEC 11801, 2nd edition
- Telcordia GR-409-CORE

TEMPERATURE RANGE

- **Storage Temperature**
  -40° to 70°C
  (-40° to 158°F)
- **Installation Temperature**
  0° to 60°C
  (32° to 140°F)
- **Operation Temperature**
  0° to 70°C
  (32° to 158°F)

DIELECTRIC MATERIALS

- **Plenum**
  Overall Jacket: Flame-retardant Thermoplastic

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Fibers	Cables O.D. inches / mm	62.5 UM OM1	50 UM OM3	50 UM OM4	8.3 UM OS2
24	0.518" / 13.1mm	60258-24	60598-24	61877-24	60634-24
48	0.614" / 15.5mm	60027-48	60614-48	61879-48	60033-48

Standard Jacket Colors

OM1   OM3/OM4   OS2

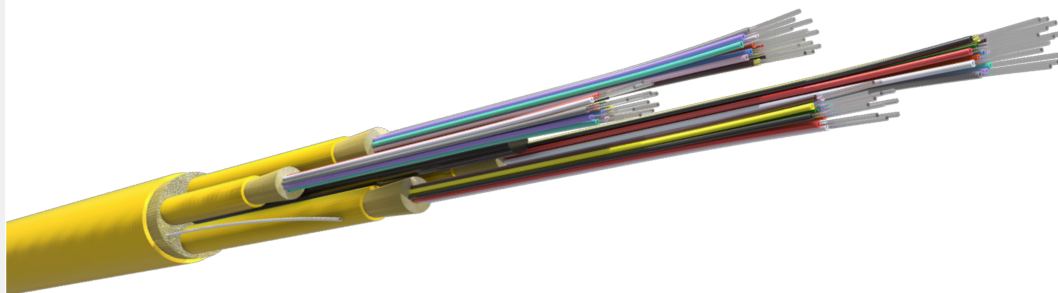### Optical Specifications TIA-568.3-D | ISO/IEC 11801, 2nd edition | Telcordia GR-409-CORE

Fiber Type	Max Attenuation (dB/km)		Min OFL Bandwidth (MHz-km)		Min EMBc Bandwidth (MHz-hm)		Gb Ethernet Distance (m)		10 Gb Ethernet Distance (m)	
	850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)
OM1	3.5	1.0	200	500	220	N/A	300	550	33	N/A
OM2	3.0	1.0	700	500	950	N/A	750	550	150	N/A
OM3	3.0	1.0	1500	500	2000	N/A	1000	550	300	N/A
OM4	3.0	1.0	3500	500	4700	N/A	1100	550	550	N/A
OM5*	3.0	1.0	3500	500	4700	N/A	1100	550	550	N/A
	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)
OS2	0.5	0.5	N/A	N/A	N/A	N/A	> 25,000	> 40,000	10,000 - 25,000	40,000

*OM5 optical fiber tested by glass manufacturer and exceeds the requirements of all applicable industry standards.

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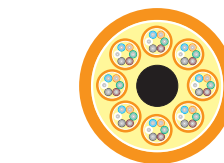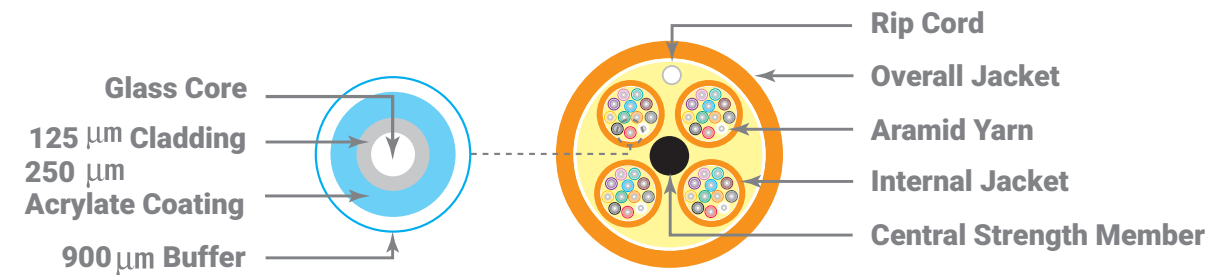(UL) OFNP c(UL) OFNP FT6

Specifications by Fiber Count

Fibers	Fibers/ Tube	Tube Layout	Install Max Load Pounds	Install Max Load Newtons	Operating Max Load Pounds	Operating Max Load Newtons	Cable Weight lbs/kft	Cable Weight Kg/Km
24	6	4xCSM	512	2279	154	684	97.0	144.5
48	12	4xCSM	640	2848	192	854	139.0	207.1

CMS = Central Strength Member

MECHANICAL SPECS

- Bend radius, no load = 10x cable overall diameter
- Bend radius, load = 15x cable overall diameter
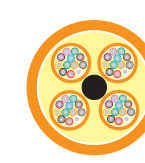
ASSEMBLY DETAIL

*These cable designs utilize color-coded binders to separate subunits
DJ = Dual jacket design

- Rip Cord
- Overall Jacket
- Aramid Yarn
- Internal Jacket
- Central Strength Member
- Glass Core
- 125 μm Cladding
- 250 μm Acrylate Coating
- 900 μm Buffer

48-fibers (8 tubes of 6-fibers)

48-fibers (4 tubes of 12-fibers)
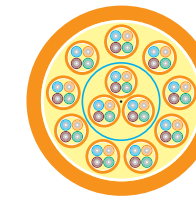
48-fibers (12 tubes of 4-fibers)

Diagram scale approx. 1:1

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Fiber