

Indoor Tight Buffered

2 through 24 fibers

FIBER

Product Highlights

- REACH & RoHS 2 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.
- 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 & OM2
 - Aqua: OM3 & OM4
 - Lime Green: OM5

Note: Erika Violet for OM4 is available.
- OM4+ optical fibers with extended 10 gigabit Ethernet distances are available

Applications

- Applications include 10, 40 & 100 gigabit Ethernet, Fibre Channel, Video, Security, Automation
- OM5 supports applications utilizing Short Wave Division Multiplexing (SWDM)

Standards

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

Single-Unit (Plenum)

(UL) OFNP c(UL) OFNP FT6

PART NUMBERS BY FIBER COUNT

| FIBERS | 62.5 UM OM1 | 50 UM OM2 | 50 UM OM3 | 50 UM OM4 | 50 UM OM5 | 8.3 UM OS2 |
|--------|-------------|-----------|-----------|-----------|-----------|------------|
| 2 | 60024-2 | 60026-2 | 60471-2 | 61855-2 | 62738-2 | 60031-2 |
| 4 | 60517-4 | 60518-4 | 60522-4 | 61868-4 | 62742-4 | 60029-4 |
| 6 | 60517-6 | 60518-6 | 60522-6 | 61868-6 | 62742-6 | 60029-6 |
| 8 | 60517-8 | 60518-8 | 60522-8 | 61868-8 | 62742-8 | 60029-8 |
| 10 | 60517-10 | 60518-10 | 60522-10 | 61868-10 | 62742-10 | 60029-10 |
| 12 | 60517-12 | 60518-12 | 60522-12 | 61868-12 | 62742-12 | 60029-12 |
| 24 | 60517-24 | 60518-24 | 60522-24 | 61868-24 | 62742-24 | 60029-24 |

Optical Specifications

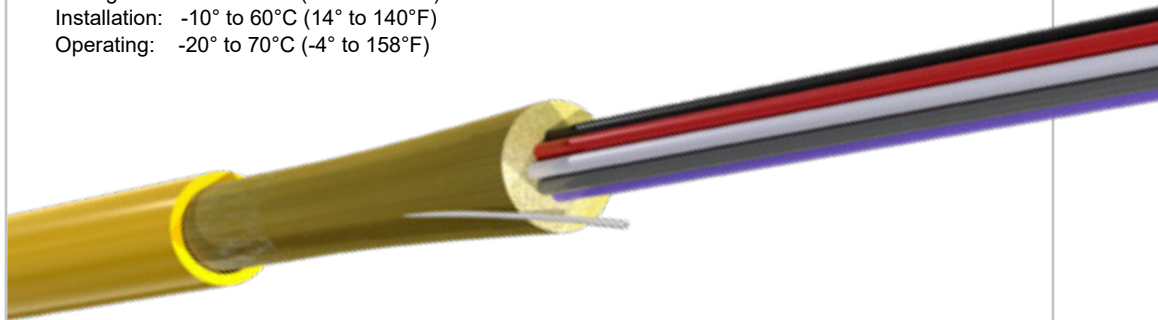
TIA-568.3-D | ISO/IEC 11801, 2nd edition | Telcordia GR-409-CORE

| Fiber type | Max. Attenuation (dB/km) | | Min OFL Bandwidth (MHz-km) | | Min EMBc Bandwidth (MHz-km) | | 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) | |
| 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 |
| | | 1550nm (SM) | 1310nm (SM) | 1550nm (SM) | 1310nm (SM) | 1550nm (SM) | 1310nm (SM) | 1550nm (SM) | 1310nm (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. Hitachi Cable America reserves the right to revise any specifications.

Cable Temperature Ranges

Storage: -40° to 70°C (-40° to 158°F)
 Installation: -10° to 60°C (14° to 140°F)
 Operating: -20° to 70°C (-4° to 158°F)



Multimode and Singlemode Single-Unit

SPECIFICATIONS BY FIBER COUNT

| FIBERS | CABLE O.D. | | RECOMMENDED MAXIMUM LOADS | | | | | |
|--------|------------|-----|---------------------------|-----|-----------|-----|--------------|-----------|
| | | | INSTALL | | OPERATION | | CABLE WEIGHT | |
| | inches | mm | lbs-f | N | lbs-f | N | lbs/1000 ft | kg/1000 m |
| 2 | 0.190 | 4.8 | 128 | 569 | 38 | 171 | 13.3 | 19.8 |
| 4 | 0.190 | 4.8 | 128 | 569 | 38 | 171 | 14.5 | 21.6 |
| 6 | 0.190 | 4.8 | 128 | 569 | 38 | 171 | 15.7 | 23.4 |
| 8 | 0.230 | 5.8 | 160 | 712 | 48 | 214 | 20.9 | 31.1 |
| 10 | 0.230 | 5.8 | 160 | 712 | 48 | 214 | 21.7 | 32.3 |
| 12 | 0.230 | 5.8 | 160 | 712 | 48 | 214 | 23.0 | 34.3 |

Mechanical Specifications

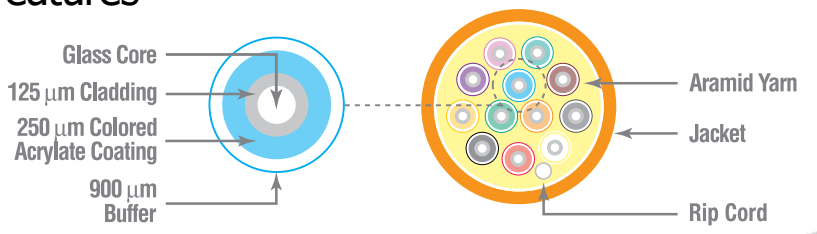
- Bend radius, no load = 10x cable overall diameter
- Bend radius, load = 15x cable overall diameter



FIBER



Features



DIELECTRIC MATERIALS
 PLENUM
 Overall Jacket: Flame-retardant Thermoplastic

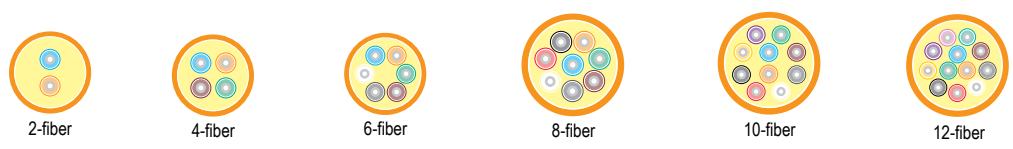


Diagram scale approx. 2:1

Photo is for representation purposes only.