

PRODUCT HIGHLIGHTS

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

DIELECTRIC MATERIALS

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

Indoor Tight Buffered Multi-Unit - Plenum

| Fibers | Cables O.D. inches / mm | 62.5 μm OM1 | 50 μm OM3 | 50 μm OM4 | 8.3 μm 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 |
| 72 | 0.750" / 19.0mm | 60027-72 | 60614-72 | 61879-72 | 60033-72 |

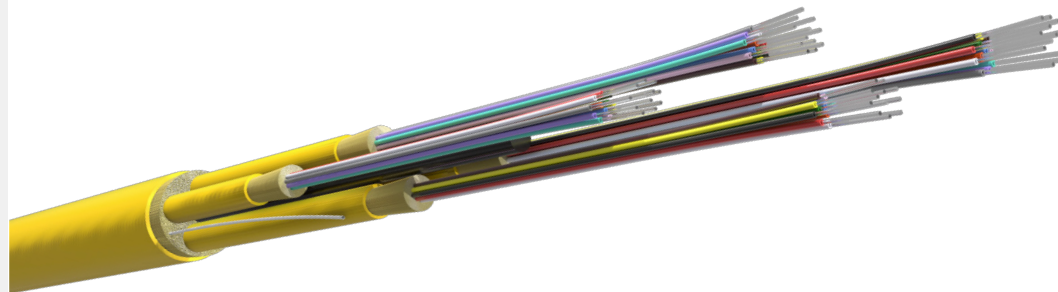
Standard Jacket Colors



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.



Proterial Cable America, Inc. is continuously improving the performance of our products and the accuracy of the information provided. Due to this, we reserve the right to modify, revise, correct, or change products without notice. Thank you for your understanding.



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 |
| 72 | 12 | 6xCSM | 960 | 4272 | 288 | 1282 | 216.0 | 321.8 |

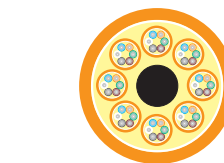
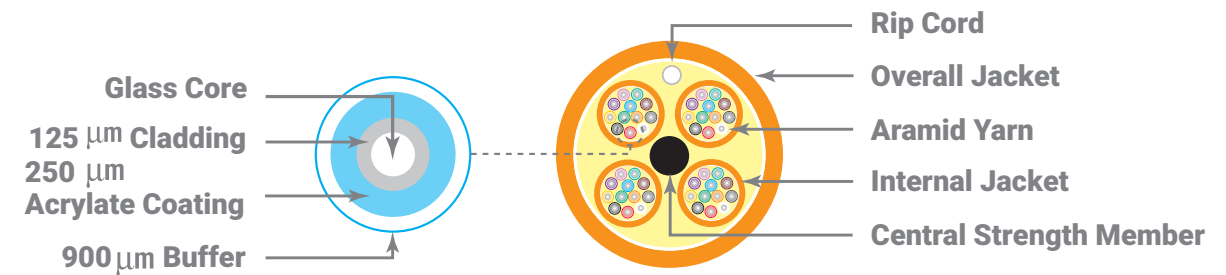
CMS = Central Strength Member

MECHANICAL SPECS

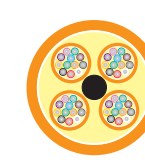
- Bend radius, no load
= 10x cable overall diameter
- Bend radius, load
= 15x cable overall diameter

ASSEMBLY DETAIL

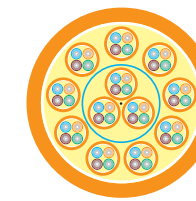
*These cable designs utilize color-coded binders to separate subunits
DJ = Dual jacket design



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



Photo is for representation purposes only.

