

Single-Unit 2 through 24 fibers

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Product Highlights

- REACH & RoHS 2 compliant.
- Made in USA.
- 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

- OS2 optical fibers with enhanced bend-insensitive performance are available.
- Standard jacket colors are:
 Yellow: OS2
 Orange: OM1 & OM2
 Aqua: OM3 & OM4
Note: Violet for OM4 is available
- OM4 optical fibers with extended 10 gigabit Ethernet distances are available.
- Wideband multimode fiber is available.

Applications

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

Standards

- TIA/EIA-568-C.3
- 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 |

SPECIFICATIONS BY FIBER COUNT

| FIBERS | CABLE O.D. | | RECOMMENDED MAXIMUM LOADS | | | | | |
|--------|------------|-----|---------------------------|------|-----------|-----|--------------|----------|
| | | | INSTALL | | OPERATION | | CABLE WEIGHT | |
| | in. | mm | lbs-f | N | lbs-f | N | lbs/1000 ft | kg/1000m |
| 2 | .190 | 4.8 | 128 | 569 | 38 | 171 | 13.3 | 19.8 |
| 4 | .190 | 4.8 | 128 | 569 | 38 | 171 | 14.5 | 21.6 |
| 6 | .190 | 4.8 | 128 | 569 | 38 | 171 | 15.7 | 23.4 |
| 8 | .230 | 5.8 | 160 | 712 | 48 | 214 | 20.9 | 31.1 |
| 10 | .230 | 5.8 | 160 | 712 | 48 | 214 | 21.7 | 32.3 |
| 12 | .230 | 5.8 | 160 | 712 | 48 | 214 | 23.0 | 34.3 |
| 24 | .330 | 8.4 | 288 | 1282 | 86 | 385 | 50.3 | 74.9 |

Cable Characteristics

Note: Part number rows in upper table directly correspond to cable characteristic rows in the same location of the lower table.

Single-Unit

Multimode and Singlemode

Single-Unit (Plenum) (UL) OFNP c(UL) OFNP FT6

Mechanical Specifications

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



FIBER

Optical Specifications

TIA/EIA-568-C.3 | 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) | 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 |

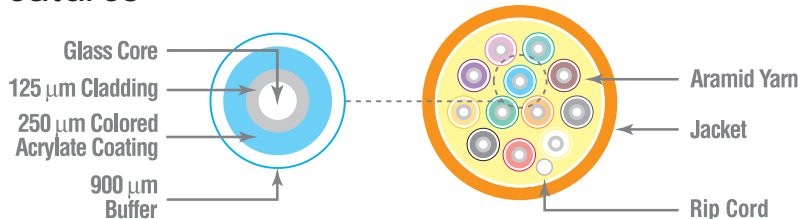
Hitachi Cable America reserves the right to revise any specifications.

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

Cable Temperature Ranges

Storage: -40° to 70°C (-40° to 158°F)
 Installation: 0° to 60°C (32° to 140°F)
 Operating: 0° to 70°C (32° to 158°F)

Features



DIELECTRIC MATERIALS

PLENUM

Overall Jacket

Flame-retardant thermoplastic



2-fiber



4-fiber



6-fiber



8-fiber



10-fiber



12-fiber

Diagram scale approx. 2:1

