

INDOOR Interconnect

1-fiber, 2-fiber and zip

FIBER

HITACHI Inspire the Next

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.
- Ideal for patch cords, interconnections, and short runs.
- Easy to strip and terminate.
- Lightweight, flexible aramid yarns enhance strength.
- Extremely flexible for easy handling.

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
Note: 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

- TIA/EIA-568-C.3
- ISO/IEC 11801, 2nd edition
- Telcordia GR-409-CORE

Interconnect (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 |
| 1 | 60042-1 | 60022-1 | 60472-1 | 61851-1 | 62734-1 | 60044-1 |
| 1 | 60430-1 | 60468-1 | 60473-1 | 61852-1 | 62735-1 | 60490-1 |
| 1 | 60431-1 | 60469-1 | 60474-1 | 61853-1 | 62736-1 | 60491-1 |
| 1 | 60432-1 | 60470-1 | 60475-1 | 61854-1 | 62737-1 | 60492-1 |
| 2 | 60042-2 | 60022-2 | 60472-2 | 61851-2 | 62734-2 | 60044-2 |
| 2 | 60024-2 | 60026-2 | 60471-2 | 61855-2 | 62738-2 | 60031-2 |
| zip | 62956-2 | 60316-2 | 62950-2 | 62951-2 | 62953-2 | 62954-2 |
| zip | 61379-2 | 61444-2 | 61457-2 | 61986-2 | 62739-2 | 61378-2 |
| zip | 60023-2 | 60008-2 | 60502-2 | 61857-2 | 62740-2 | 60030-2 |

| SPECIFICATIONS BY FIBER COUNT | | | | | | | | |
|-------------------------------|-------------|-----------|---------------------------|-----|-----------|-----|--------------|----------|
| FIBERS | CABLE O.D. | | RECOMMENDED MAXIMUM LOADS | | | | CABLE WEIGHT | |
| | | | INSTALL | | OPERATION | | | |
| | in. | mm | lbs-f | N | lbs-f | N | lbs/1000 ft | kg/1000m |
| 1 | 0.114 | 2.9 | 96 | 427 | 29 | 128 | 5.6 | 8.3 |
| 1 | 0.094 | 2.4 | 64 | 285 | 19 | 85 | 4.7 | 6.9 |
| 1 | 0.079 | 2.0 | 50 | 223 | 15 | 67 | 3.6 | 5.3 |
| 1 | 0.063 | 1.6 | 50 | 223 | 15 | 67 | 2.0 | 2.9 |
| 2 | 0.114 | 2.9 | 96 | 427 | 29 | 128 | 6.4 | 9.5 |
| 2 | 0.190 | 4.8 | 128 | 569 | 38 | 171 | 13.1 | 19.4 |
| zip | .063 x .038 | 1.6 x 3.5 | 50 | 223 | 15 | 67 | 2.67 | 3.97 |
| zip | .079 x .170 | 2.0 x 4.3 | 96 | 427 | 48 | 213 | 6.27 | 9.3 |
| zip | .113 x .235 | 2.9 x 6.0 | 128 | 569 | 64 | 284 | 13.2 | 19.6 |

Cable Characteristics

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

Interconnect (Plenum) (UL) OFNP c(UL) OFNP FT6

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 |

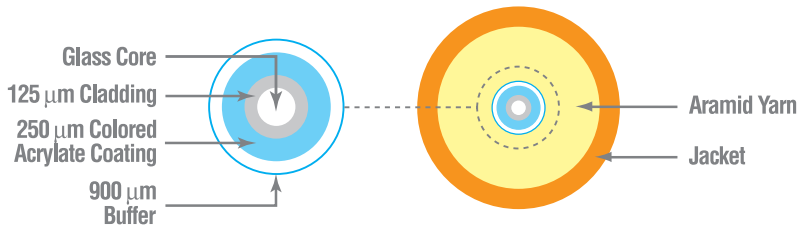
Hitachi Cable America reserves the right to revise any specifications.

*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

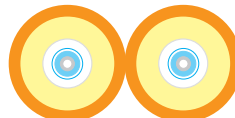
Flame-retardant thermoplastic



1-fiber Interconnect



2-fiber Interconnect



2-fiber Zip Cord

Diagram scale approx. 5:1

Mechanical Specifications

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



FIBER

