

Multi-Unit 12 through 144 fibers

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.
- Each fiber is color coded for easy identification.
- Compact distribution design.
- Ideal intra-building, multi-floor cable solution.
- 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

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

PART NUMBERS BY FIBER COUNT

| FIBERS | FIBERS/TUBE | 62.5 UM OM1 | 50 UM OM2 | 50 UM OM3 | 50 UM OM4 | 50 UM OM5 | 8.3 UM OS2 |
|--------|-------------|-------------|-----------|-----------|-----------|-----------|------------|
| 18 | 6 | 60258-18 | 60596-18 | 60598-18 | 61877-18 | 62745-18 | 60634-18 |
| 24 | 6 | 60258-24 | 60596-24 | 60598-24 | 61877-24 | 62745-24 | 60634-24 |
| 36 | 6 | 60258-36 | 60596-36 | 60598-36 | 61877-36 | 62745-36 | 60634-36 |
| 48 | 6 | 60258-48 | 60596-48 | 60598-48 | 61877-48 | 62745-48 | 60634-48 |
| 72 | 6 | 60258-72 | 60596-72 | 60598-72 | 61877-72 | 62745-72 | 60634-72 |
| 36 | 12 | 60027-36 | 60028-36 | 60614-36 | 61879-36 | 62746-36 | 60033-36 |
| 48 | 12 | 60027-48 | 60028-48 | 60614-48 | 61879-48 | 62746-48 | 60033-48 |
| 60 | 12 | 60027-60 | 60028-60 | 60614-60 | 61879-60 | 62746-60 | 60033-60 |
| 72 | 12 | 60027-72 | 60028-72 | 60614-72 | 61879-72 | 62746-72 | 60033-72 |
| 96 | 12 | 60027-96 | 60028-96 | 60614-96 | 61879-96 | 62746-96 | 60033-96 |
| 144 | 12 | 60027-144 | 60028-144 | 60614-144 | 61879-144 | 62746-144 | 60033-144 |

SPECIFICATIONS BY FIBER COUNT

| FIBERS | FIBERS/TUBE | TUBE LAYOUT | RECOMMENDED MAXIMUM LOADS | | | | | | | |
|--------|-------------|-------------|---------------------------|------|---------|------|-----------|------|--------------|----------|
| | | | CABLE O.D. | | INSTALL | | OPERATION | | CABLE WEIGHT | |
| | | | in. | mm | lbs-f | N | lbs-f | N | lbs/1000 ft | kg/1000m |
| 18 | 6 | 3xCSM | .479 | 12.1 | 384 | 1709 | 115 | 513 | 77.0 | 114.7 |
| 24 | 6 | 4xCSM | .518 | 13.1 | 512 | 2279 | 154 | 684 | 97.0 | 144.5 |
| 36 | 6 | 6xCSM | .630 | 16.0 | 768 | 3418 | 230 | 1025 | 148.0 | 220.5 |
| 48 | 6 | 8xCSM | .792 | 20.1 | 1024 | 4557 | 307 | 1367 | 253.0 | 377.0 |
| 72 | 6 | 9x3xCSM | .903 | 22.9 | 1536 | 6837 | 461 | 2051 | 280.0 | 417.2 |
| 36 | 12 | 3xCSM | .559 | 14.1 | 480 | 2136 | 144 | 641 | 109.0 | 162.4 |
| 48 | 12 | 4xCSM | .614 | 15.5 | 640 | 2848 | 192 | 854 | 139.0 | 207.1 |
| 60 | 12 | 5xCSM | .681 | 17.2 | 800 | 3561 | 240 | 1068 | 175.0 | 260.8 |
| 72 | 12 | 6xCSM | .750 | 19.0 | 960 | 4272 | 288 | 1282 | 216.0 | 321.8 |
| 96 | 12 | 8xCSM | .937 | 23.7 | 1280 | 5697 | 384 | 1709 | 360.0 | 536.4 |
| 144 | 12 | 9x3xCSM | 1.06 | 26.9 | 1920 | 8545 | 576 | 2564 | 404.0 | 602.0 |

Cable Characteristics

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

INDOOR Multi-Unit

Multimode and Singlemode

Multi-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 |

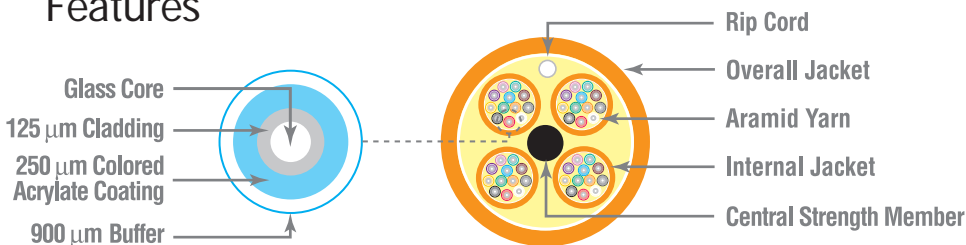
Hitachi Cable America reserves the right to revise any specifications.

*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

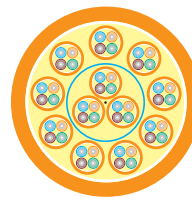
Flame-retardant thermoplastic



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

