

Tight Buffered

2 through 144 fibers

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Product Highlights

- REACH & RoHS 2 compliant.
- Made in USA.
- All multimode, and singlemode cables (except OM1) utilize bend-insensitive optical fibers.
- UV and fungus resistant jacket.
- Tight buffered construction.
- Easy to strip and terminate.
- Each fiber is color coded for easy identification.
- Dry, super absorbent polymers (SAPs) eliminate water migration in cable interstices.
- Suitable for lashed aerial, duct, underground conduit and indoor plenum applications.
- 900um buffered design recommended for easy termination.
- Cables with more than 24 fibers have fibers segregated into 12-fiber sub-units.

Options

- OM4 optical fibers with extended 10 gigabit Ethernet distances are available.
- OS2 optical fibers with enhanced bend-insensitive performance 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

Indoor/Outdoor Tight Buffered (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 |
|--------|-------------|-------------|-----------|-----------|-----------|-----------|------------|
| 2 | 2 | 61460-2 | 61464-2 | 61468-2 | 61894-2 | 62769-2 | 61459-2 |
| 4 | 4 | 61460-4 | 61464-4 | 61468-4 | 61894-4 | 62769-4 | 61459-4 |
| 6 | 6 | 61460-6 | 61464-6 | 61468-6 | 61894-6 | 62769-6 | 61459-6 |
| 8 | 8 | 61460-8 | 61464-8 | 61468-8 | 61894-8 | 62769-8 | 61459-8 |
| 10 | 10 | 61460-10 | 61464-10 | 61468-10 | 61894-10 | 62769-10 | 61459-10 |
| 12 | 12 | 61460-12 | 61464-12 | 61468-12 | 61894-12 | 62769-12 | 61459-12 |
| 24 | 24 | 61460-24 | 61464-24 | 61468-24 | 61894-24 | 62769-24 | 61459-24 |
| 36 | 6 | 62178-36 | 62179-36 | 62180-36 | 62181-36 | 62770-36 | 62066-36 |
| 48 | 12 | 61979-48 | 61956-48 | 61959-48 | 61980-48 | 62771-48 | 61480-48 |
| 72 | 12 | 61979-72 | 61956-72 | 61959-72 | 61980-72 | 62771-72 | 61480-72 |
| 96 | 12 | 61979-96 | 61956-96 | 61959-96 | 61980-96 | 62771-96 | 61480-96 |
| 144 | 12 | 61979-144 | 61956-144 | 61959-144 | 61980-144 | 62771-144 | 61480-144 |

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 |
| 2 | 2 | x | .190 | 4.83 | 128 | 570 | 38 | 171 | 12.6 | 18.8 |
| 4 | 4 | x | .190 | 4.83 | 128 | 570 | 38 | 171 | 13.9 | 20.7 |
| 6 | 6 | x | .190 | 4.83 | 128 | 570 | 38 | 171 | 15.1 | 22.5 |
| 8 | 8 | x | .230 | 5.84 | 160 | 712 | 48 | 214 | 20.0 | 29.8 |
| 10 | 10 | x | .230 | 5.84 | 160 | 712 | 48 | 214 | 21.3 | 31.7 |
| 12 | 12 | x | .230 | 5.84 | 160 | 712 | 48 | 214 | 22.5 | 33.5 |
| 24 | 24 | x | .330 | 8.38 | 288 | 1282 | 86 | 385 | 50.2 | 74.8 |
| 36 | 6 | 6xC5M | .639 | 16.2 | 600 | 2670 | 200 | 890 | 159.2 | 236.9 |
| 48 | 12 | 4xC5M | .627 | 15.9 | 640 | 2849 | 192 | 855 | 135.1 | 201.1 |
| 72 | 12 | 6xC5M | .756 | 19.2 | 960 | 4273 | 288 | 1282 | 226.6 | 337.2 |
| 96 | 12 | 8xC5M | .941 | 23.9 | 1280 | 5696 | 384 | 1709 | 367.9 | 547.6 |
| 144 | 12 | 9x3xC5M | 1.072 | 27.2 | 1920 | 8546 | 576 | 2564 | 396.8 | 590.5 |

Cable Characteristics

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

Tight Buffered

Indoor/Outdoor Tight Buffered (Plenum)

(UL) OFNP c(UL) OFNP FT6

Mechanical Specifications

- Bend radius, no load = 10x cable overall diameter
- Bend radius, load = 20x 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 |

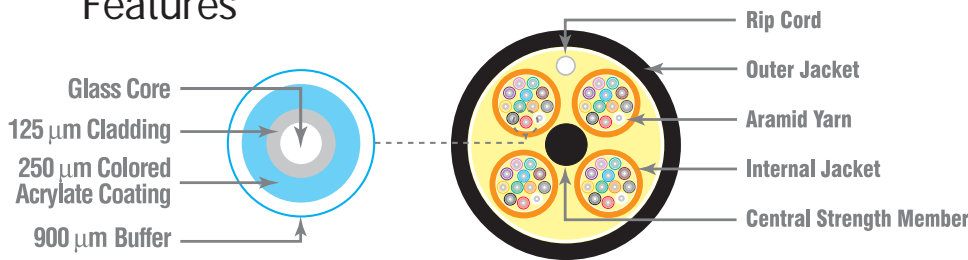
Hitachi Cable America reserves the right to revise any specifications.

*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°C to 60°C (32° to 140°F)
- Operating: -40° to 70°C (-40° to 158°F)

Features



DIELECTRIC MATERIALS

PLENUM

Overall Jacket

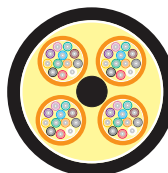
Flame-retardant thermoplastic



6-fiber



12-fiber



48-fibers (4 tubes of 12-fibers)

Diagram scale approx. 3:1

