

# Armored

2 through 144 fibers

## HITACHI Inspire the Next

### Product Highlights

- REACH & RoHS 2 compliant.
- Made in USA.
- All multimode, and singlemode cables (except OM1) utilize bend-insensitive optical fibers.
- 900um buffered design recommended for easy termination.
- Eliminates need for inner duct or conduit.
- Aluminum interlock armor.
- 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

- Standard jacket colors are:  
 Yellow: OS2  
 Orange: OM1 & OM2  
 Aqua: OM3 & OM4  
*Note: Violet for OM4 is available*
- OS2 optical fibers with enhanced bend-insensitive performance are 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 and Automation.

### Standards

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

## Armored Tight Buffered (Plenum) (UL) OFCP c(UL) OFCP 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      | 60405-2     | 61319-2   | 61337-2   | 61897-2   | 62813-2   | 61433-2    |
| 4      | 60405-4     | 61319-4   | 61337-4   | 61897-4   | 62813-4   | 61433-4    |
| 6      | 60405-6     | 61319-6   | 61337-6   | 61897-6   | 62813-6   | 61433-6    |
| 8      | 60405-8     | 61319-8   | 61337-8   | 61897-8   | 62813-8   | 61433-8    |
| 10     | 60405-10    | 61319-10  | 61337-10  | 61897-10  | 62813-10  | 61433-10   |
| 12     | 60405-12    | 61319-12  | 61337-12  | 61897-12  | 62813-12  | 61433-12   |
| 24     | 60405-24    | 61319-24  | 61337-24  | 61897-24  | 62813-24  | 61433-24   |
| 48     | 62183-48    | 62184-48  | 62185-48  | 62186-48  | 62814-48  | 62187-48   |
| 72     | 62183-72    | 62184-72  | 62185-72  | 62186-72  | 62814-72  | 62187-72   |
| 96     | 62183-96    | 62184-96  | 62185-96  | 62186-96  | 62814-96  | 62187-96   |
| 144    | 62183-144   | 62184-144 | 62185-144 | 62186-144 | 62814-144 | 62187-144  |

SPECIFICATIONS BY FIBER COUNT

| FIBERS | RECOMMENDED MAXIMUM LOADS |       |              |      |           |      |              |          |
|--------|---------------------------|-------|--------------|------|-----------|------|--------------|----------|
|        | CABLE O.D.                |       | INSTALLATION |      | OPERATION |      | CABLE WEIGHT |          |
|        | in.                       | mm    | lbs-f        | N    | lbs-f     | N    | lbs/1000 ft  | kg/1000m |
| 2      | 0.520                     | 13.21 | 128          | 570  | 38        | 171  | 93.5         | 139.1    |
| 4      | 0.520                     | 13.21 | 128          | 570  | 38        | 171  | 94.8         | 141.1    |
| 6      | 0.520                     | 13.21 | 128          | 570  | 38        | 171  | 96.2         | 143.1    |
| 8      | 0.520                     | 13.21 | 160          | 712  | 48        | 214  | 100.5        | 149.6    |
| 10     | 0.520                     | 13.21 | 160          | 712  | 48        | 214  | 101.9        | 151.6    |
| 12     | 0.520                     | 13.21 | 160          | 712  | 48        | 214  | 103.3        | 153.7    |
| 24     | 0.643                     | 16.33 | 288          | 1282 | 86        | 385  | 158.1        | 235.3    |
| 48     | 0.964                     | 24.49 | 640          | 2849 | 192       | 855  | 305.7        | 454.9    |
| 72     | 1.099                     | 27.91 | 960          | 4273 | 288       | 1282 | 453.8        | 675.3    |
| 96     | 1.279                     | 32.49 | 1280         | 5697 | 384       | 1709 | 650.1        | 967.5    |
| 144    | 1.434                     | 36.42 | 1920         | 8546 | 576       | 2564 | 720.4        | 1072.1   |

### Cable Characteristics

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

## Armored Tight Buffered (Plenum) (UL) OFCP c(UL) OFCP FT6

### Mechanical Specifications

- Bend radius, no load = 15x 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      |

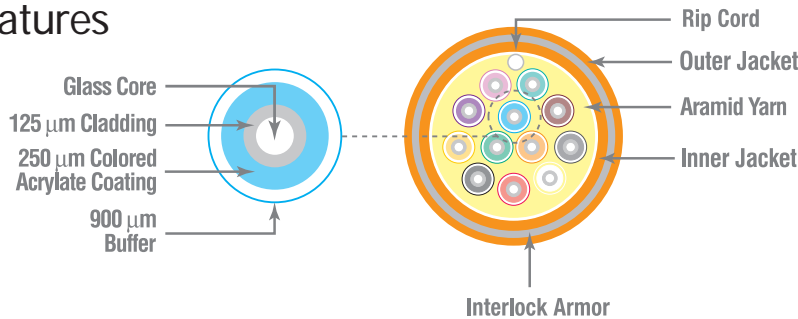
Hitachi Cable America reserves the right to revise any specifications.

\*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° to 60°C (32° to 140°F)
- Operating: 0° to 70°C (32° to 158°F)

### Features



DIELECTRIC MATERIALS  
Overall Jacket

PLENUM  
Flame-retardant thermoplastic

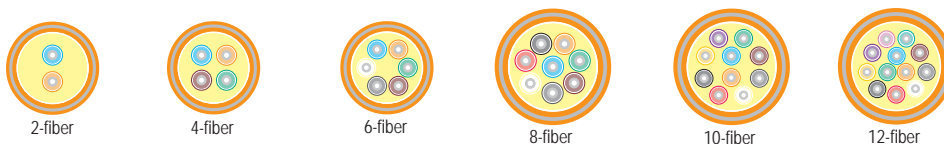


Diagram scale approx. 2:1

