



- Supported by the Mission Critical Permanent Link Fiber Warranty
- Flexible Gel-Free Cable Construction to Facilitate Deployment and Dress-Out
- 10 GbE Application Assurance for all Standards-Supported Lengths
- ROHS Compliant Flame-Retardant Cable Design

FEATURES

- Flexible, easy-strip fiber coatings for contractor-friendly connector field termination
- Gel-free water blocking binders provide easy, no-mess field termination
- 10GBase-S delivery to 550-meter distances using OM4 laser optimized multimode fiber
- Fibers supported: OM1, OM2, OM3, OM4, SM Riser (OFNR), and LSZH versions suitable for by-passing entrance transition points

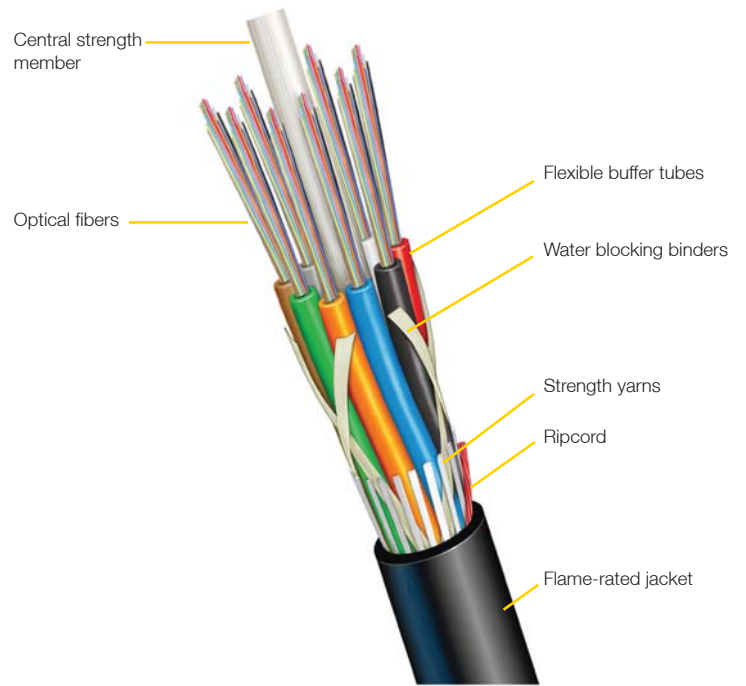
SPECIFICATIONS

- Strand count: 2 to 48 strands
- Fiber coating: Color coded 250 µm acrylate
- Temperature Range
 - Storage: -40° F to +176° F (-40° C to +80° C)
 - Installation: 14° F to +176° F (-10° C to +80° C)
 - Operation: -40° F to +176° F (-20° C to +80° C)
- Mechanical and Dimensional: See Chart
- Attenuation / Bandwidth / Distance: See spec

STANDARDS

- Telcordia GR-409 and GR-20
- ANSI/ICEA S-87-640
- ANSI/ICEA S-104-696
- TIA-492 and TIA-568-C-series requirements
- Riser Cables: UL 1666/CSA FT-4
- Plenum Cables: NFPA-262/UL910/CSA FT-6

HUBBELL OptiChannel Indoor/Outdoor Loose Tube Fiber Cable



Hubbell's **OptiChannel® HFC2 Series Indoor/Outdoor Loose Tube Fiber Cable** provides a versatile, high bandwidth optical cabling solution, with easy field termination, and compact, flame-retardant design for space-saving installations. Premium quality optical fiber is used in all of Hubbell's OptiChannel fiber cables, which are fully supported by the Hubbell **MISSION CRITICAL®** 25-year warranty.

CABLE JACKET AND BUFFER COLOR CODES

- Jacket: Black dielectric, all fiber types
- Buffer Tube Color Codes*: Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
 - * Same colors with black stripe after 12 tubes
- Buffer Position/Color Codes: 1-Blue, 2-Orange, 3-Green, 4-Brown, 5-Slate, 6-White, 7-Red, 8-Black, 9-Yellow, 10-Violet, 11-Rose, 12-Aqua

APPLICATIONS

- Inter-building/campus WAN backbone cabling
- Aerial lashed, duct, or direct burial deployments
- Data center main distribution to remote facilities
- High bandwidth trunk Lines for data and video traffic
- Extended distance, non-conductive media links
- Commercial, Medical, Government and Education facilities



ORDERING INFORMATION

| | |
|----------------|-------------|
| Catalog Number | HFC2XXXRNBK |
|----------------|-------------|

XXX = Fiber Count (2, 4, 6, 8, 12, 24, 48 strands)

Example: HFC2012R5BK

R = 'R' for Riser, 'Z' for LSZH

N = '6' for 62.5 µm OM1 Multimode

'5' for 50 µm OM2 Multimode

'3' for 50 µm OM3 Multimode 10 GbE

'4' for 50 µm OM4 Multimode 10 GbE

'S' for Singlemode

DELIVERY

All fiber cables are priced and sold by meters. To convert feet to meters, multiply feet by 3.281. Spool size varies by cable diameter and spooled length. Minimum order quantity is 1,000 meters. Cable is delivered by length ordered. Excess cable on spool is excluded from the length ordered.

Note: Strand counts 72 to 288 strands available on a custom make-to-order basis. Contact Hubbell Premise Wiring for quote and delivery.

CABLE DESIGN INFORMATION

HFC2 Series: Indoor/Outdoor Loose Tube, Single Jacket, Riser OFNR and LSZH

| Fiber Count | No. of Buffer Tubes | No. of Fibers Per Tube | Cable Diameter in(mm) | Cable Weight lb/kft(kg/km) | Bend Radius (With Load) in(cm) | Bend Radius (No Load) in(cm) | Max Pulling Load lbs(newtons) | Max Operation Load lbs(newtons) |
|-------------|---------------------|------------------------|-----------------------|----------------------------|--------------------------------|------------------------------|-------------------------------|---------------------------------|
| 2 to 60 | 5 | 12 | 0.42 (10.6) | 74 (110) | 8 (20) | 4 (10) | 600 (2700) | 200 (890) |
| 62 to 72 | 6 | 12 | 0.45 (11.4) | 82 (122) | 9 (23) | 5 (12) | 600 (2700) | 200 (890) |
| 74 to 84 | 7 | 12 | 0.50 (12.6) | 100 (149) | 9 (23) | 5 (12) | 600 (2700) | 200 (890) |
| 86 to 96 | 8 | 12 | 0.54 (13.8) | 118 (175) | 10 (26) | 5 (12) | 600 (2700) | 200 (890) |
| 98 to 108 | 9 | 12 | 0.57 (14.5) | 130 (195) | 11 (27) | 6 (15) | 600 (2700) | 200 (890) |
| 110 to 120 | 10 | 12 | 0.51 (15.4) | 149 (222) | 11 (27) | 6 (15) | 600 (2700) | 200 (890) |
| 122 to 132 | 11 | 12 | 0.54 (16.3) | 167 (248) | 12 (31) | 6 (15) | 600 (2700) | 200 (890) |
| 134 to 144 | 12 | 12 | 0.57 (17.2) | 184 (274) | 14 (35) | 7 (18) | 600 (2700) | 200 (890) |
| 146 to 264 | 22 | 12 | 0.76 (19.3) | 244 (366) | 15 (39) | 7 (18) | 600 (2700) | 200 (890) |
| 266 to 288 | 24 | 12 | 0.80 (20.3) | 269 (404) | 16 (41) | 8 (20) | 600 (2700) | 200 (890) |

ACCESSORIES

| Description | Catalog Number |
|--------------------------------------|----------------|
| Fiber Buffer Strip Tool, 250/900 µm | OFSTRIP2 |
| OPTICHANNEL ® Termination Kit | OFTK03C |
| Field Termination Kit | OFTK05 |
| Fiber Termination B/O Tube Clamp | OFCLMP1 |
| Precision Cleave Tool | OFCLV4 |
| Multimode Cleave Tool | OFCLV3 |
| 6 Fiber 900 µm Break Out Tube Kit | OFBOKT6 |
| 12 Fiber 900 µm Break Out Tube Kit | OFBOKT12 |

TYPICAL APPLICATION

- Verify the network application is supported for the installed distance.
- Do not exceed maximum loading and minimum bend radius limits.
- Use proper tools for stripping and dressing cable to avoid fiber damage.
- Adhere to good installation practices, avoiding kinks, crushing, and abrasion.
- Adhere to code requirements for direct burial and pathway fill.

INTEGRATED SOLUTIONS



Backbone and Horizontal Cross-Connect Facilities

- **OPTICHANNEL**® Patch Panels, Cords, and Enclosures
- **NEXTFRAME**® and **I-FRAME**® Racks, Enclosures, Cable Management, and Ladder Rack
- **PROclick**™, 2Click, and **OPTICHANNEL**® Connectors



Delivery Systems Solutions

- SystemOne, Poke Throughs, Floor Boxes
- HBL-Series Metal Raceway and PolyTrak Raceway

