



- Supported by the Mission Critical Permanent Link Fiber Warranty
- Flexible 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
- Compact diameter to minimize cable congestion, and maximize pathway utilization
- 10GBase-S delivery to 550-meter distances using OM4 laser optimized multimode fiber
- Fibers supported: OM1, OM2, OM3, OM4, SM
- Non-Conductive design, available in riser (OFNR), Plenum (OFNP), and LSZH versions

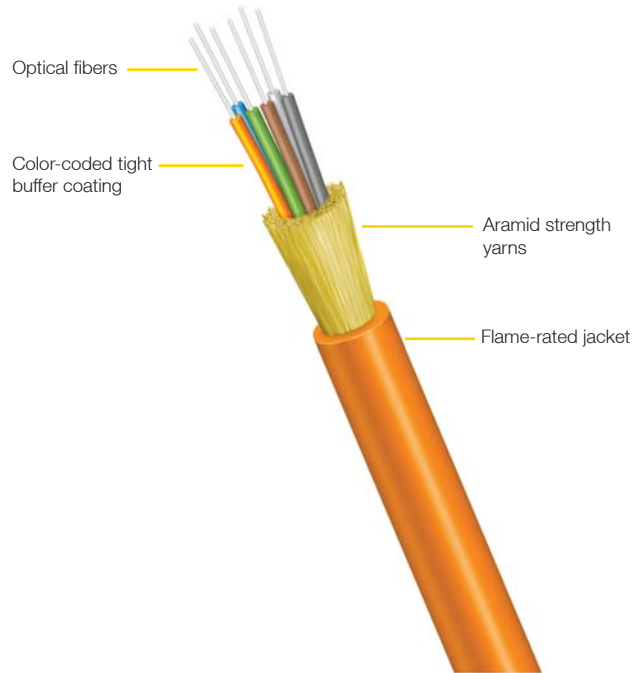
**SPECIFICATIONS**

- Strand count: 2 to 24 strands
- Fiber coating: Color coded 900 µm PVC tight buffer over 250 µm acrylate
- Temperature Range
  - Storage: -40° F to +176° F (-40° C to +80° C)
  - Installation: 14° F to +122° F (-10° C to +50° C)
  - Operation: -4° F to +176° F (-20° C to +80° C)
- Mechanical and Dimensional: See Chart
- Attenuation / Bandwidth / Distance: See Spec

**STANDARDS**

- Telcordia GR-409
- ANSI/ICEA S-83-596
- TIA-492-series detailed fiber requirements
- TIA-568-C-series requirements
- Riser Cables: UL 1666/CSA FT-4
- Plenum Cables: NFPA-262/UL910/CSA FT-6

**HUBBELL OptiChannel Indoor Tight Buffer Distribution Fiber Cable**



Hubbell's **OptiChannel® HFC1 Series Indoor Tight Buffered Distribution Fiber Cable** provides reliable, high bandwidth optical network performance, 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**

- Orange: 62.5 µm OM1 and 50 µm OM2 Multimode
- Aqua: 50 µm OM3 and 50 µm OM4 Laser Optimized Multimode
- Yellow: Singlemode
- 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**

- High capacity intra-building lan, backbone, and horizontal optical cabling infrastructure
- Data center, LAN and Storage Area Network optical cabling infrastructure
- Bandwidth-intensive trunk lines for high speed data and video traffic
- Extended distance, non-conductive data links
- Commercial, medical, government and education facilities



ORDERING INFORMATION

Catalog Number	HFC1XXXRN
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XXX = Fiber Count (2, 4, 6, 8, 12 strands)

R = 'R' for Riser, 'P' for Plenum, '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

Example: HFC1012R5

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: See Hubbell HFC1M-Series Multi-Unit Distribution Cables for fiber strand counts greater than 12 strands. Special strand counts available on a custom made-to-order basis. Contact Hubbell Premise Wiring for quote and delivery.

CABLE DESIGN INFORMATION

HFC1 Series: Indoor Tight Buffer Riser OFNR, FT-4 Rated

Fiber Count	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	0.19 (4.8)	15 (22)	4 (10)	3 (8)	150 (660)	45 (200)
4	0.22 (5.6)	19 (28)	4 (10)	3 (8)	150 (660)	45 (200)
6	0.24 (6.0)	21 (31)	5 (13)	4 (10)	150 (660)	45 (200)
8	0.25 (6.2)	23 (34)	5 (13)	4 (10)	150 (660)	45 (200)
12	0.28 (7.0)	30 (45)	6 (15)	4 (10)	150 (660)	45 (200)

HFC1 Series: Indoor Tight Buffer Plenum OFNP, FT-6 Rated

2	0.17 (4.2)	9 (13)	3 (8)	3 (8)	100 (444)	33 (145)
4	0.17 (4.3)	14 (21)	3 (8)	3 (8)	100 (444)	33 (145)
6	0.19 (4.7)	15 (22)	4 (10)	3 (8)	100 (444)	33 (145)
8	0.20 (5.0)	18 (27)	4 (10)	3 (8)	100 (444)	33 (145)
12	0.23 (5.8)	22 (33)	5 (13)	4 (10)	100 (444)	33 (145)

HFC1 Series: Indoor Tight Buffer LSZH

2	0.22 (5.6)	15 (22)	4 (10)	3 (8)	150 (660)	45 (200)
4	0.22 (5.6)	21 (31)	5 (13)	3 (8)	150 (660)	45 (200)
6	0.24 (6.0)	22 (32)	5 (13)	4 (10)	150 (660)	45 (200)
8	0.25 (6.2)	24 (36)	5 (13)	4 (10)	150 (660)	45 (200)
12	0.28 (7.0)	31 (46)	6 (14)	4 (10)	150 (660)	45 (200)

ACCESSORIES

Description	Catalog Number
Fiber Buffer Strip Tool, 250/900 µm	OFSTRIP2
OPTICHANNEL® Termination Kit	OFTK03C
Field Termination Kit	OFTK05
Precision Cleave Tool	OFCLV4
Multimode Cleave Tool	OFCLV3

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 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



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