



- 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 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
- Rugged polyethylene jacket for outdoor use

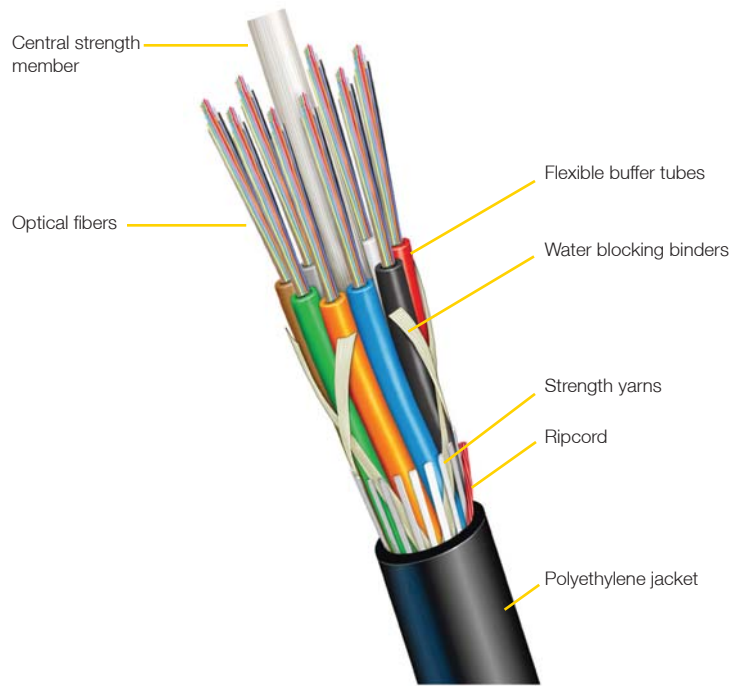
SPECIFICATIONS

- Strand count: 2 to 48 strands
- Fiber coating: Color coded 250 µm acrylate
- Temperature Range
 - Storage: -40° F to +167° F (-40° C to +75° C)
 - Installation: -22° F to +140° F (-10° C to +60° C)
 - Operation: -40° F to +158° F (-40° C to +70° C)
- Mechanical and Dimensional: See Chart
- Attenuation / Bandwidth / Distance: See spec

STANDARDS

- Telcordia GR-20
- ANSI/ICEA S-87-640
- ANSI/ICEA S-104-696
- TIA-492 and TIA-568-C-series requirements
- TIA-758 OSP cabling requirements

HUBBELL OptiChannel Outdoor Loose Tube Fiber Cable



Hubbell's **OptiChannel® HFC3 Series Outdoor Loose Tube Fiber Cable** provides a rugged and versatile high bandwidth optical cabling solution, with easy field termination, and compact, water resistant design for space-saving installations. Water-blocking binders that swell to resist moisture provide a gel-free outdoor-compliant cable solution. 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
- Metropolitan Area Networks, Service Provider Networks
- 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	HFC3XXXBKN
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XXX = Fiber Count (4, 6, 8, 12, 24, 48 strands)

Example: HFC3012BK3

- 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

HFC3 Series: Outdoor Loose Tube, Single Jacket

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)	53 (79)	8 (20)	4 (10)	600 (2700)	180 (800)
62 to 72	6	12	0.45 (11.4)	63 (94)	9 (23)	5 (12)	600 (2700)	180 (800)
74 to 84	7	12	0.49 (12.3)	72 (107)	10 (26)	5 (12)	600 (2700)	180 (800)
86 to 96	8	12	0.53 (13.4)	82 (122)	11 (27)	5 (12)	600 (2700)	180 (800)
98 to 108	9	12	0.56 (14.2)	90 (134)	11 (27)	6 (15)	600 (2700)	180 (800)
110 to 120	10	12	0.60 (15.1)	99 (147)	12 (31)	6 (15)	600 (2700)	180 (800)
122 to 132	11	12	0.63 (16.1)	109 (162)	13 (34)	6 (15)	600 (2700)	180 (800)
134 to 144	18	12	0.67 (16.9)	126 (187)	13 (34)	7 (18)	600 (2700)	180 (800)
146 to 264	22	12	0.74 (18.9)	153 (228)	15 (39)	7 (18)	600 (2700)	180 (800)
266 to 288	24	12	0.77 (19.6)	167 (248)	15 (39)	8 (20)	600 (2700)	180 (800)

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 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.
- Code restrictions limit exposed OSP cable entering a building to 15m (50 ft) maximum.
- 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

