

HC-SERIES CABLE

High-density Indoor/Outdoor Fiber Optic Cable

The HC-Series cables, featuring OCC's unique tight-buffered fiber units, are the ideal solution for campus networks and indoor-outdoor installations. The HC-Series of cables combines the ruggedness of tight-buffers with high-fiber density, resulting in cables that have an outer diameter much smaller than conventional cables using buffer tubes. No other cable matches the mechanical and environmental performance while maintaining a small diameter and high-duct efficiency.

Features & Benefits:

- Rugged tight-buffer fiber unit construction
- Cable materials are indoor/outdoor: UV-, fungus- and water-resistant
- The high-density breakout cables offer a > 20% reduction in diameter and a > 20% reduction in weight relative to conventional loose-tube cables, allowing for greater fiber density and cable packing within a duct
- UL Listed in accordance with NEC section 770.179(b) for use in vertical runs in building riser shafts or from floor to floor
- Core-Locked™ outer jacket design for installation survivability
- Helically stranded core for greater flexibility and mechanical protection of the optical fiber units
- Cable offers a cost savings by eliminating the need to splice outdoor cable to indoor cable at building entrance
- Cable can be terminated with 900µm fanout kit for LC construction
- Suitable for direct pulling with wire mesh grips
- Option available for direct termination of sub-units to MPO/MTP connectors

Applications:

- Installation in underground duct for data transmission between nodes or hubs
- Can also be routed vertically inside buildings



Mechanical and Environmental Performance

	INDOOR/OUTDOOR
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +85°C
Installation Temperature (cable temp.)	-20°C to +60°C
Flame Retardancy	UL Listed Type OFNR UL 1666
Crush Resistance	1,800 N/cm
Flex Resistance	2,000 cycles

Applicable Standards:

Optical Cable Corporation indoor/outdoor tight-buffered fiber-unit fiber optic cables meet the functional requirements of the following standards:

- ICEA-S-104-696
- TIA-568
- ICEA-S-83-596
- TIA-598
- UL 1666

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CABLE CHARACTERISTICS:

HC-Series High-density Riser Cables (with 2.0mm fiber units)

FIBER COUNT	DIAMETER MM (IN)	WEIGHT KG/KM (LBS/1,000')	TENSILE LOAD		MINIMUM BEND RADIUS	
			INSTALLATION N (LBS)	OPERATIONAL N (LBS)	INSTALLATION CM (IN)	LONG-TERM CM (IN)
24	7.6 (0.30)	75 (50)	2700 (600)	600 (135)	11.4 (4.5)	7.6 (3.0)
48	7.6 (0.30)	75 (50)	2700 (600)	600 (135)	11.4 (4.5)	7.6 (3.0)
72	9.0 (0.35)	97 (65)	2700 (600)	600 (135)	13.5 (5.3)	9.0 (3.5)
96	10.3 (0.40)	116 (78)	2700 (600)	600 (135)	15.5 (6.0)	10.3 (4.0)
120	11.4 (0.45)	141 (95)	3000 (670)**	1000 (220)	17.1 (6.8)	11.4 (4.5)
144	11.7 (0.46)	152 (102)	3000 (670)**	1000 (220)	17.6 (6.9)	11.7 (4.6)
168	11.7 (0.46)	152 (102)	4800 (1080)**	1600 (360)	17.6 (6.9)	11.7 (4.6)
192	12.9 (0.51)	179 (120)	4800 (1080)**	1600 (360)	19.4 (7.7)	12.9 (5.1)
216	12.9 (0.51)	179 (120)	4800 (1080)**	1600 (360)	19.4 (7.7)	12.9 (5.1)
288	15.0 (0.60)	226 (152)	5400 (1210)**	1800 (400)	22.8 (9.0)	15.0 (6.0)

** Installation loads in excess of 2,700N (600lbs) are not recommended.

Ordering Information

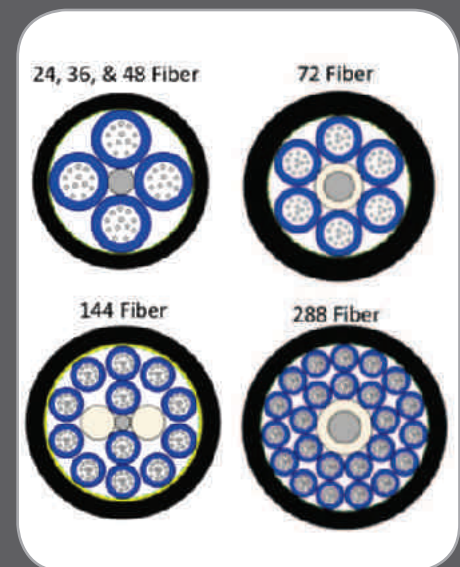
	H	C				J	S	L	A	C		R
Digit No:	1	2	3	4	5	6	7	8	9	10	11	12

- 1 – 2 High Count Series with 12 fiber units 2.0mm in diameter = **HC**
- 3 – 5 Fiber count: (See Cable Characteristics Chart)
- 6 Low Temperature Oil Resistant Indoor/Outdoor PVC = **J**
- 7 – 9 Fiber type: SLA – Others may be available in the future
- 10 Jacketed fiber unit = **C**
- 11 Jacket Color: Standard Jacket Color; Black = **K**
- 12 Rating Type: OFNR = **R**

Example: 12 fiber cable with 12 fiber units, 2.0mm in diameter using bend-tolerant single-mode fiber, Low Temperature Oil Resistant Indoor/outdoor PVC, black jacket riser rated printed in feet –

H	C	0	1	2	J	S	L	A	C	K	R
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Dimensional Drawing



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