

OCC's HC-Series tray-rated cables, feature our unique tight-buffered fiber units and are the ideal solution for campus networks and indoor/outdoor installations. These cables combine the ruggedness of tight buffers with high-fiber density and have a much smaller outer diameter than conventional cables using buffer tubes. No other cable is able to match the mechanical and environmental performance while maintaining a small diameter and high-duct efficiency.

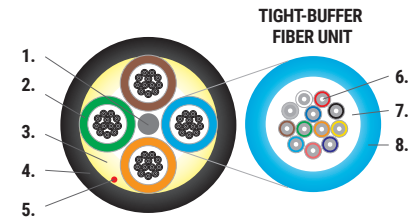
## APPLICATIONS

- » Installation in underground duct for data transmission between nodes or hubs
- » Can also be routed vertically inside buildings
- » Ideal for high-density network backbone installations

## FEATURES

- » Rugged tight-buffer fiber unit construction
- » Core-Locked™ outer jacket design for installation survivability
- » Cable can be terminated with 900µm fan-out kit for LC construction
- » Option available for direct termination of sub-units to MPO/MTP connectors
- » Meets all applicable standards for impact and crush resistance (CSA C22.2 No. 230)
- » Oil resistance for use in industrial applications (J-Jacket)
- » J-Jacket is UV, fungus, oil, and moisture resistant

## HC-SERIES HIGH-DENSITY CABLES



1. Central Filler/Strength Member
2. Tight-Buffer Fiber Unit
3. Aramid Strength Member
4. Outer Jacket
5. Ripcord

### TIGHT-BUFFER FIBER UNIT

6. 250µm Acrylate Fiber
7. Fiber Unit
8. Tight-Buffer Fiber Unit



## A FIBER CABLE USED IN A TRAY MUST HAVE THESE MECHANICAL CAPABILITIES



Absorbs **IMPACT** from falling debris



**CRUSH** resistant against other cables in the metal rungs of the tray



Able to handle extreme **TEMPERATURES** (hot/cold)



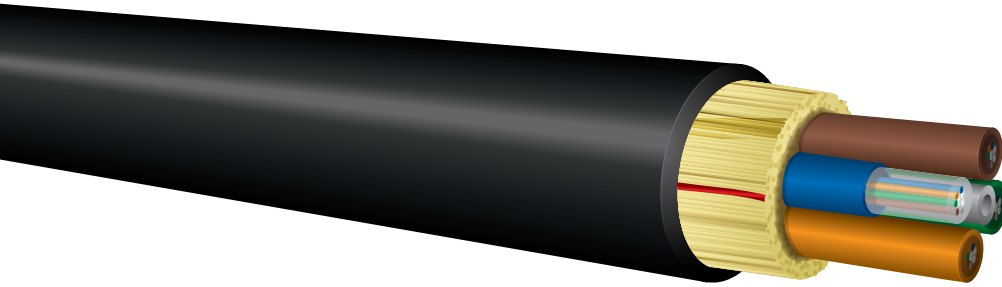
Able to withstand exposure to direct sunlight  
**UV RESISTANT**



**FLAME** resistance appropriate to the installation environment

## MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

	D-JACKET	J-JACKET
OUTER JACKET MATERIAL	PVC	Low-Temperature PVC
OPERATING TEMPERATURE	-40°C to + 85°C	-50°C to + 75°C
STORAGE TEMPERATURE	-55°C to + 85°C	-55°C to + 85°C
INSTALLATION TEMPERATURE (CABLE TEMP)	-10°C to + 60°C	-20°C to + 60°C
FLAME RETARDANCY	UL listed type OFNR (UL 1666)	UL listed type OFNR (UL 1666)
CRUSH RESISTANCE (TIA-455-41)	1,800 N/cm	1,800 N/cm
FLEX RESISTANCE (TIA-455-104)	2,000 cycles	2,000 cycles



## STANDARDS

OCC indoor/outdoor tight-buffered fiber optic cables meet or exceed the functional requirements of the following standards:

*ICEA-S-104-696*

*ICEA-S-83-596*

*TIA-568*

*TIA-598*

*UL 1666*

*CSA C22.2 No.230*

## CABLE CHARACTERISTICS

FIBER COUNT	DIAMETER MM (IN)	WEIGHT KG/KM (LBS/1,000FT)	TENSILE LOAD		MINIMUM BEND RADIUS	
			INSTALLATION N (LBS)	OPERATIONAL N (LBS)	INSTALLATION CM (IN)	LONG-TERM CM (IN)
12 - 48	7.6 (0.30)	72 (48)	2,700 (600)	600 (135)	11.4 (4.5)	7.6 (3.0)
96	10.3 (0.41)	111 (75)	2,700 (600)	600 (135)	15.5 (6.1)	10.3 (4.1)
144	11.7 (0.46)	146 (98)	2,700 (600)	600 (135)	17.6 (6.9)	11.7 (4.6)
288	15.0 (0.59)	218 (147)	2,700 (600)	600 (135)	22.8 (9.0)	15.0 (5.9)

## ORDERING INFORMATION

SERIES	FIBER COUNT					JACKET TYPE	FIBER TYPE	FIBER UNIT	JACKET COLOR	RATING	REINFORCEMENT			
H	1	2	3	4	5	6	7	8	9	10	11	12	13	14
												R		

- Digit No:**
- 1 - 2 High Count Series with 12-Fiber Bundled Fiber Units 2.0mm in Diameter  
12-Fiber = **HT**; 24-288 Fiber = **HC**
  - 3 - 5 Fiber Count: (See cable characteristics chart)
  - 6 Jacket Types: Indoor/Outdoor Oil Resistant Low-Temp PVC = **J**, Indoor/Outdoor PVC = **D**
  - 7 - 9 Fiber type: **SLA, ALT, ALE, WLS**. Please see OCC Catalog for complete listing
  - 10 Jacketed Fiber Unit: **A** = Aramid Within Subunit, **C** = No Aramid Within Subunit
  - 11 Standard Jacket Color: Black = **K**
  - 12 Rating: Riser = **R**
  - 13 - 14 Reinforcements = D-Jacket (12-288 Fiber): ILA = **I2**; FRP = **F1**; CST = **A1**  
J-Jacket (12-288 Fiber): ILA = **IC**; FRP = **FC**; CST = **A7**

**Example:** 12-Cable with 12-Fiber Units, 2.0mm in Diameter Using Bend-Insensitive, Single-Mode Fiber, Low Temperature Oil-Resistant Indoor/Outdoor PVC, Black, Riser Rated, PVC Jacket, Printed in Feet

H T 0 1 2 D S L A C K R

**Example:** 48-Fiber Cable with 12-Fiber Units, 2.0mm in Diameter Using Bend-Insensitive, Single-Mode Fiber, Low Temperature Oil-Resistant Indoor/Outdoor PVC, Black, Riser Rated, with Corrugated Steel Tape Reinforcement, PVC Jacket, Printed in Feet

H C 0 4 8 D S L A C K R A 1



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