

# Armored

24 through 144 fibers

Indoor Fiber Armored

## HITACHI Inspire the Next

### Product Highlights

- RoHS & REACH compliant.
- All Multimode, and singlemode cables (except OM1) utilize bend-insensitive optical fibers.
- Eliminates need for inner duct or conduit.
- Ideal for MPO (MTP) style connectors.
- Aluminum interlock armor.
- Each fiber is color coded for easy identification.
- Flexible and easy to handle.

### Options

- Riser/LSZH cables available.
- OS2 optical fibers with enhanced bend-insensitive performance are available.
- Standard jacket colors are:  
Yellow: OS2  
Orange: OM1 & OM2  
Aqua: OM3 & OM4  
*Note: Erika Violet for OM4 is available*
- 16 Fiber colors are available.
- OM4 (OM4+) optical fibers with extended 10 gigabit Ethernet distances are available.
- Enhanced bend insensitive OS2 optical fiber is available (ITU-T G.657.B3).
- Steel interlock armor available.

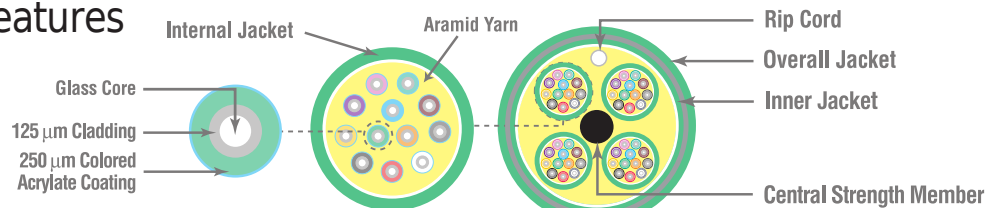
### Applications

- Ideal for high-density installations like data centers, central offices and overall premise applications where current or future data rates include 40 and 100 gigabits per second.
- For additional applications, visit the HCA website.

## Armored NanoCore™ Micro Distribution (Plenum) (UL) OFCP c(UL) OFCP FT6

Fiber count	Fibers per tube	Tube layout	Tube OD		62.5 UM	50 UM	50 UM	50 UM	8.3 UM
			in.	mm	OM1	OM2	OM3	OM4	OS2
24	12	2+FxCSM	0.079	2.0	62285-24	62286-24	62251-24	62257-24	62255-24
36	12	3xC5M	0.079	2.0	62285-36	62286-36	62251-36	62257-36	62255-36
48	12	4xC5M	0.079	2.0	62285-48	62286-48	62251-48	62257-48	62255-48
72	12	6xC5M	0.079	2.0	62285-72	62286-72	62251-72	62257-72	62255-72
96	12	8xC5M	0.079	2.0	62285-96	62286-96	62251-96	62257-96	62255-96
144	12	9x3xC5M	0.079	2.0	62285-144	62286-144	62251-144	62257-144	62255-144

### Features

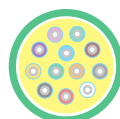


#### DIELECTRIC MATERIALS

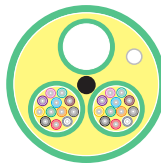
Overall Jacket

#### PLENUM

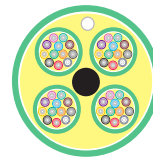
Low-smoke, flame-retardant thermoplastic



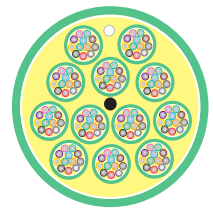
12 fibers



24 fibers



48 fibers



144 fibers

## Armored NanoCore™ Micro Distribution (Plenum) (UL) OFCP c(UL) OFCP FT6

### RECOMMENDED MAXIMUM LOADS Tensile load

Fiber count	Fibers per tube	Tube layout	Tube OD		Cable OD		Tensile load				Cable weight	
			in.	mm	in.	mm	Install		Operation		lbs/kft	Kg/Km
24	12	2+FxCSM	0.079	2.0	0.585	14.9	150	667.6	45	200.3	132.7	197.5
36	12	3xCSM	0.079	2.0	0.585	14.9	150	667.6	45	200.3	133.2	198.3
48	12	4xCSM	0.079	2.0	0.608	15.4	150	667.6	45	200.3	147.3	219.2
72	12	6xCSM	0.079	2.0	0.649	16.5	150	667.6	45	200.3	169.2	251.8
96	12	8xCSM	0.079	2.0	0.700	17.8	150	667.6	45	200.3	194.2	288.9
144	12	9x3xCSM	0.079	2.0	0.748	19.0	150	667.6	45	200.3	212.0	315.5

## Mechanical Specifications

- Bend radius, no load = 15x cable overall diameter
- Bend radius, load = 20x cable overall diameter



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### Cable Temperature Ranges

Storage: -40° to 70°C (-40° to 158°F)  
 Installation: 0° to 60°C (32° to 140°F)  
 Operating: 0° to 70°C (32° to 158°F)

## Optical Specifications

TIA/EIA-568-C.3 | ISO/IEC 11801, 2nd edition | Telcordia GR-409-CORE

Fiber type	Max. Attenuation		Min OFL Bandwidth		Min EMBc Bandwidth		Gb Ethernet distance		10 Gb Ethernet distance	
	(dB/km)		(MHz-km)		(MHz-km)		(m)		(m)	
	850nm (MM) or 1310nm (SM)	1300nm (MM) or 1550nm (SM)	850nm (MM) or 1310nm (SM)	1300nm (MM) or 1550nm (SM)	850nm (MM) or 1310nm (SM)	1300nm (MM) or 1550nm (SM)	850nm (MM) or 1310nm (SM)	1300nm (MM) or 1550nm (SM)	850nm (MM) or 1310nm (SM)	1300nm (MM) or 1550nm (SM)
OM1	3.5	1.0	200	500	220	N/A	300	550	33	N/A
OM2	3.5	1.0	700	500	950	N/A	750	550	150	N/A
OM3*	3.25	1.0	1500	500	2000	N/A	1000	550	300	N/A
OM4*	3.0	1.0	3500	500	4700	N/A	1100	550	550	N/A
OS2 <sup>1</sup>	0.5	0.5	N/A	N/A	N/A	N/A	> 25,000	> 40,000	10,000 - 25,000	40000

**Notes:**

\*For OM3 and OM4 cables, typical maximum attenuation is less than indicated in the Optical Specifications. For customers needing a maximum attenuation value of 2.8, please contact HCA or visit the FAQ section of the HCA website.

1: OS2 glass is compliant to ITU-T G.657A1

Hitachi Cable America reserves the right to revise any specifications.

