

NanoCore® Armored

12 through 144 fibers

FIBER

Product Highlights

- REACH & RoHS 2 compliant
- Made in U.S.A.
- 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
- 8 fibers per tube available
- Standard jacket colors are:
 Yellow: OS2
 Orange: OM1 & OM2
 Aqua: OM3 & OM4
 Lime Green: OM5
Note: Erika Violet for OM4 is available.
- OM4+ optical fibers with extended 10 gigabit Ethernet distances are available
- Enhanced bend insensitive OS2 optical fiber is available (ITU-TG.657.B3)

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
- OM5 supports applications utilizing Short Wave Division Multiplexing (SWDM)

Standards

- ANSI/TIA-568.3-D
- ISO/IEC 11801, 2nd edition
- Telcordia GR-409-CORE
- OS2 glass is compliant to ITU-T G.657.A1

Armored NanoCore® Micro Distribution (Plenum)

(UL) OFCP c(UL) OFCP FT6

PART NUMBERS BY FIBER COUNT

FIBER	FIBER	TUBE LAYOUT		CABLE O.D. mm	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	50 UM OM5	8.3 UM OS2
12	12	2+2Fx-CSM	2.0	14.8	62285-12	62286-12	62251-12	62257-12	62756-12	62255-12
24	12	2+2Fx-CSM	2.0	14.8	62285-24	62286-24	62251-24	62257-24	62756-24	62255-24
36	12	3+1Fx-CSM	2.0	14.8	62285-36	62286-36	62251-36	62257-36	62756-36	62255-36
48	12	4xCSM	2.0	14.8	62285-48	62286-48	62251-48	62257-48	62756-48	62255-48

Optical Specifications

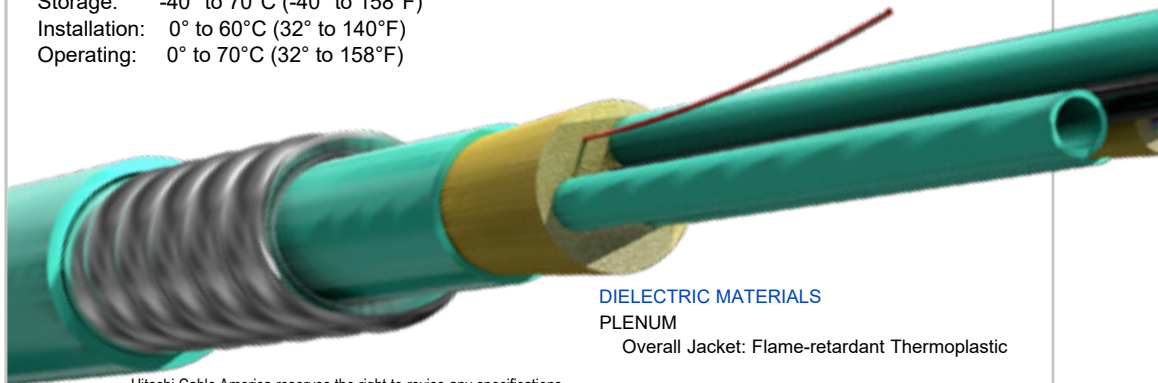
TIA-568.3-D | ISO/IEC 11801, 2nd edition | Telcordia GR-409-CORE

Fiber type	Max. Attenuation (dB/km)		Min OFL Bandwidth (MHz-km)		Min EMBc Bandwidth (MHz-km)		Gb Ethernet distance (m)		10 Gb Ethernet distance (m)	
	850nm (MM)		850nm (MM)		850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)
OM1	3.5	1.0	200	500	220	N/A	300	550	33	N/A
OM2	2.8	1.0	700	500	950	N/A	750	550	150	N/A
OM3	2.8	1.0	1500	500	2000	N/A	1000	550	300	N/A
OM4	2.8	1.0	3500	500	4700	N/A	1100	550	550	N/A
OM5*	2.8	1.0	3500	500	4700	N/A	1100	550	550	N/A
			1310nm (SM)		1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)

*OM5 optical fiber tested by glass manufacturer and exceeds the requirements of all applicable industry standards.

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)



DIELECTRIC MATERIALS
 PLENUM

Overall Jacket: Flame-retardant Thermoplastic

Hitachi Cable America reserves the right to revise any specifications.

Micro Distribution

SPECIFICATIONS BY FIBER COUNT

FIBER	FIBERS/TUBE	TUBE LAYOUT	TUBE O.D.		CABLE O.D.		RECOMMENDED MAXIMUM LOADS				CABLE WEIGHT	
			inches	mm	inches	mm	INSTALL		OPERATION		lbs/kft	Kg/Km
							lbs	N	lbs	N		
12	12	2+2Fx-CSM	0.079	2.0	0.583	14.8	150	668	45	200	131.0	195.0
24	12	2+2Fx-CSM	0.079	2.0	0.583	14.8	150	668	45	200	132.0	197.5
36	12	3+1Fx-CSM	0.079	2.0	0.583	14.8	150	668	45	200	132.0	196.4
48	12	4xCSM	0.079	2.0	0.583	14.8	150	668	45	200	133.0	197.9
72	12	6xCSM	0.079	2.0	0.647	16.4	150	668	45	200	154.0	229.2
96	12	8xCSM	0.079	2.0	0.675	17.1	150	668	45	200	183.0	272.3
144	12	9x3x-CSM	0.079	2.0	0.723	18.4	150	668	45	200	194.0	288.7

CSM = Central Strength Member
F = Fiber

Mechanical Specifications

- Bend radius, no load = 10x cable overall diameter
- Bend radius, load = 15x cable overall diameter



FIBER



Features

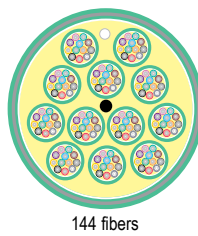
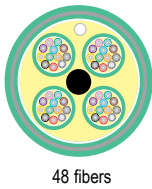
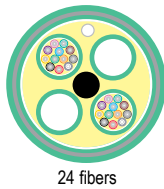
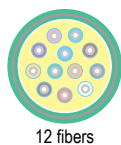
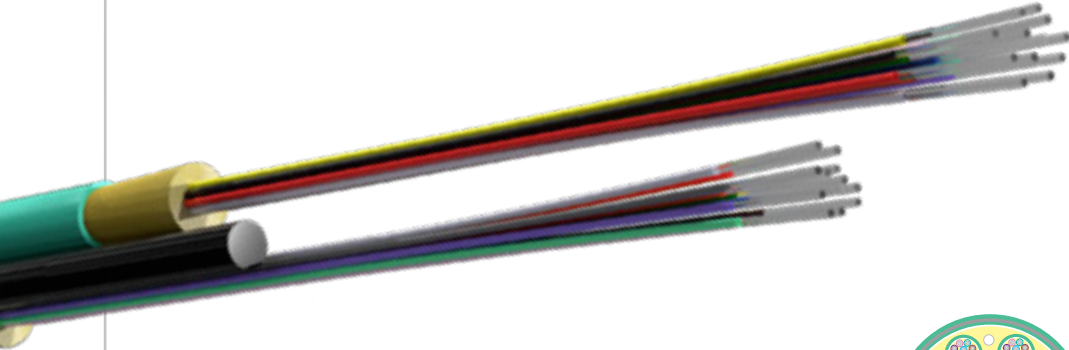
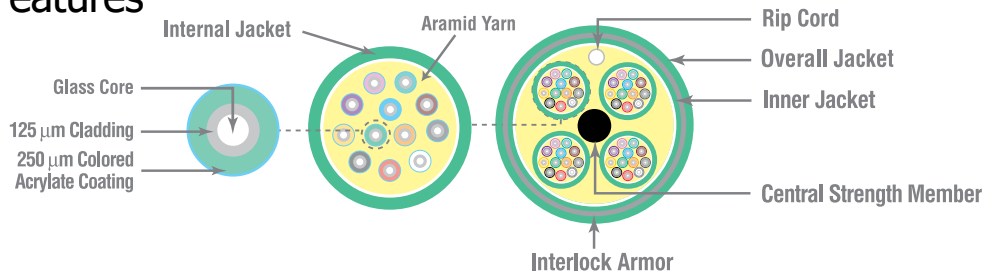


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