

NanoCore[®] Armored

12 through 144 fibers

FIBER

HITACHI Inspire the Next

Product Highlights

- REACH & RoHS 2 compliant.
- Made in USA.
- 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 and 16 fibers per tube 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+ optical fibers with extended 10 gigabit Ethernet distances are available.
- Enhanced bend insensitive OS2 optical fiber is available (ITU-T G.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

- TIA/EIA-568-C.3
- 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 COUNT	FIBERS PER TUBE	TUBE LAYOUT	TUBE OD mm	CABLE OD mm	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	50 UM OM5	8.3 UM OS2
12	12	2+2FxCSM	2.0	14.8	62285-12	62286-12	62251-12	62257-12	62756-12	62255-12
12	12	2+2FxCSM	3.0	17.4	62632-12	62633-12	62634-12	62635-12	62637-12	62638-12
24	12	2+2FxCSM	2.0	14.8	62285-24	62286-24	62251-24	62257-24	62756-24	62255-24
24	12	2+2FxCSM	3.0	17.4	62632-24	62633-24	62634-24	62635-24	62637-24	62638-24
36	12	3+1FxCSM	2.0	14.8	62285-36	62286-36	62251-36	62257-36	62756-36	62255-36
36	12	3+1FxCSM	3.0	17.4	62632-36	62633-36	62634-36	62635-36	62637-36	62638-36
48	12	4xCSM	2.0	14.8	62285-48	62286-48	62251-48	62257-48	62756-48	62255-48
48	12	4xCSM	3.0	17.4	62632-48	62633-48	62634-48	62635-48	62637-48	62638-48
72	12	6xCSM	2.0	16.4	62285-72	62286-72	62251-72	62257-72	62756-72	62255-72
72	12	6xCSM	3.0	18.8	62632-72	62633-72	62634-72	62635-72	62637-72	62638-72
96	12	8xCSM	2.0	17.1	62285-96	62286-96	62251-96	62257-96	62756-96	62255-96
96	12	8xCSM	3.0	21.5	62632-96	62633-96	62634-96	62635-96	62637-96	62638-96
144	12	9x3xCSM	2.0	18.4	62285-144	62286-144	62251-144	62257-144	62756-144	62255-144
144	12	9x3xCSM	3.0	22.8	62632-144	62633-144	62634-144	62635-144	62637-144	62638-144

SPECIFICATIONS BY FIBER COUNT

FIBER COUNT	FIBERS/TUBE	TUBE LAYOUT	RECOMMENDED MAXIMUM LOADS									
			TUBE OD		CABLE OD		INSTALL		OPERATION		CABLE WEIGHT	
			in.	mm	in.	mm	lbs	N	lbs	N	lbs/kft	Kg/Km
12	12	2+2FxCSM	0.079	2.0	0.583	14.8	150	668	45	200	131.0	195.0
12	12	2+2FxCSM	0.118	3.0	0.687	17.4	150	668	45	200	153.4	228.3
24	12	2+2FxCSM	0.079	2.0	0.583	14.8	150	668	45	200	132.0	197.5
24	12	2+2FxCSM	0.118	3.0	0.687	17.4	150	668	45	200	153.4	228.3
36	12	3+1FxCSM	0.079	2.0	0.583	14.8	150	668	45	200	132.0	196.4
36	12	3+1FxCSM	0.118	3.0	0.687	17.4	150	668	45	200	153.9	229.1
48	12	4xCSM	0.079	2.0	0.583	14.8	150	668	45	200	133.0	197.9
48	12	4xCSM	0.118	3.0	0.687	17.4	150	668	45	200	154.4	229.8
72	12	6xCSM	0.079	2.0	0.647	16.4	150	668	45	200	154.0	229.2
72	12	6xCSM	0.118	3.0	0.742	18.8	150	668	45	200	185.4	276.0
96	12	8xCSM	0.079	2.0	0.675	17.1	150	668	45	200	183.0	272.3
96	12	8xCSM	0.118	3.0	0.847	21.5	150	668	45	200	228.9	340.7
144	12	9x3xCSM	0.079	2.0	0.723	18.4	150	668	45	200	194.0	288.7
144	12	9x3xCSM	0.118	3.0	0.897	22.8	150	668	45	200	246.9	367.5

Cable Characteristics

F = Filler
 CSM = Central Strength Member.

Note: Part number rows in upper table directly correspond to cable characteristic rows in the same location of the lower table.

Micro Distribution Multimode and Singlemode

Armored NanoCore® Micro Distribution (Plenum) (UL) OFCP c(UL) OFCP FT6

Optical Specifications

TIA/EIA-568-C.3 | 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)	1300nm (MM)	850nm (MM)	1300nm (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)	1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)
OS2	0.5	0.5	N/A	N/A	N/A	N/A	> 25,000	> 40,000	10,000 - 25,000	40,000

Hitachi Cable America reserves the right to revise any specifications.

*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)

Mechanical Specifications

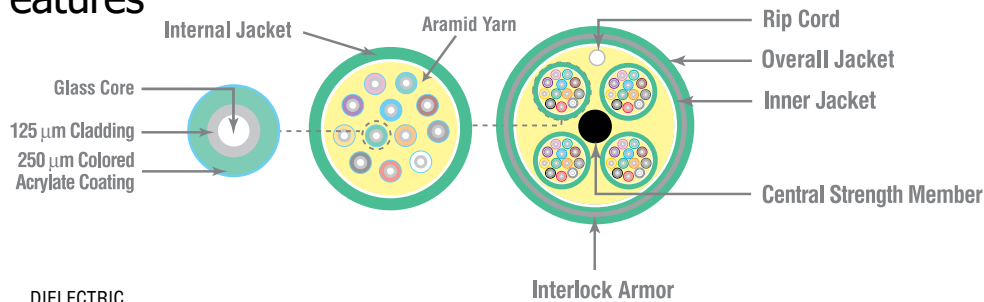
- Bend radius, no load = 15x cable overall diameter
- Bend radius, load = 20x cable overall diameter



FIBER



Features

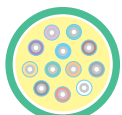


DIELECTRIC MATERIALS

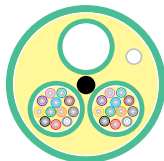
Overall Jacket

PLENUM

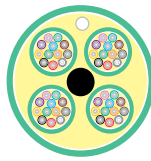
Flame-retardant thermoplastic



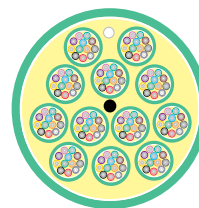
12 fibers



24 fibers



48 fibers



144 fibers