

NanoCore® Interconnect Plenum

Single Jacket Indoor Loose Tube - 2 through 24 fibers
(UL) OFNP c(UL) OFNP FT6

FEATURES & BENEFITS

- RoHS 2 compliant
- Made in U.S.A.
- All multimode, and singlemode cables (except OM1) utilize bend-insensitive optical fibers
- 250 micron loose tube design allows for higher fiber strand counts in a smaller overall diameter cable
- Ideal for MPO (MTP®) style connectors
- Each fiber is color coded for easy identification
- Flexible and easy to handle
- Lightweight, flexible Aramid yarns enhance strength
- Now available with a smaller outside diameter
- When necessary, color-coded binders separate fiber strands into bundles of 12

OPTIONS

- Enhanced bend insensitive OS2 optical fiber available (ITU-T G.657.B3 & G.657.A2)
- 16 Fiber colors available
- Colored threads are used to bundle fibers
- OS2 optical fibers with enhanced bend-insensitive performance are available.
- OM4+ and OM5 Available

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

TEMPERATURE RANGE

- **Storage Temperature**
-40°C to 70°C
(-40°F to 158°F)
- **Installation Temperature**
0°C to 60°C
(32°F to 140°F)
- **Operation Temperature**
0°C to 70°C
(32°F to 158°F)

DIELECTRIC MATERIALS

- **Plenum**
Overall Jacket: Flame-retardant Thermoplastic

NanoCore Interconnect (Single Jacket) Micro Distribution

Fibers	Fibers / Bundle / Tube	Cable O.D. inches / mm	50 UM OM3	50 UM OM4	8.3 UM OS2
2	-	0.078" / 2.0mm	62243-2	62244-2	62239-2
2	-	0.118" / 3.0mm	61507-2	61883-2	61538-2
4	-	0.118" / 3.0mm	61507-4	61883-4	61538-4
12	-	0.078" / 2.0mm	62243-12	62244-12	62239-12
12	-	0.118" / 3.0mm	61507-12	61883-12	61538-12
12	-	0.150" / 3.8mm	62374-12	62375-12	62371-12
12 DJ	-	0.189" / 4.8mm	62449-12	62450-12	62460-12
16	-	0.118" / 3.0mm	62685-16	62686-16	62689-16
16*	8 X 2	0.118" / 3.0mm	62694-16	62695-16	62698-16
24*	12 X 2	0.118" / 3.0mm	62243-24	62244-24	62239-24
24*	12 X 2	0.150" / 3.8mm	62374-24	62375-24	62371-24
24*	12 X 2	0.177" / 4.5mm	61507-24	61883-24	61538-24
24	12	0.118" / 3.0mm 0.255" / 6.47mm	61539-24	61882-24	61547-24

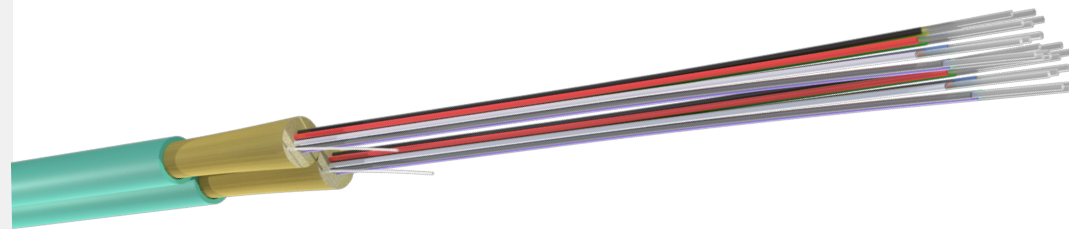
Standard Jacket Colors



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-hm)		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	3.0	1.0	700	500	950	N/A	750	550	150	N/A
OM3	3.0	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
OM5*	3.0	1.0	3500	500	4700	N/A	1100	550	550	N/A
OS2	0.5	0.5	N/A	N/A	N/A	N/A	> 25,000	> 40,000	10,000 - 25,000	40,000

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



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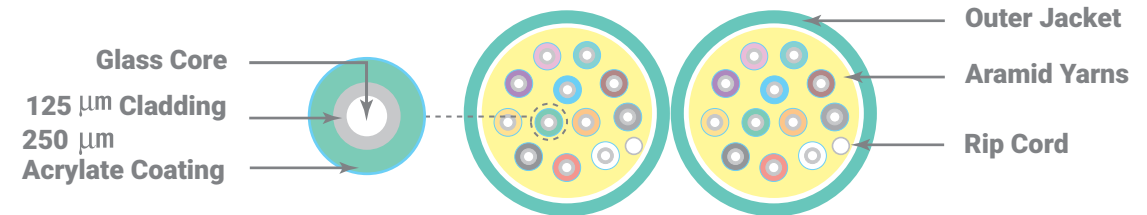
Specifications by Fiber Count

Fibers	Max Install Load Lbs.	Max Install Load Newtons	Operating Max Load Lbs	Operating Max Load Newtons	Compression N/cm	Impact N-m	Cable Weight lbs/kft	Cable Weight Kg/Km
2	50	222	15	67	35	0.74	2.5	3.7
2	100	445	30	134	100	0.74	5.5	8.2
4	100	445	30	134	100	0.74	5.6	8.3
12	50	222	15	67	35	0.74	2.9	4.4
12	100	445	30	134	100	0.74	5.9	8.8
12	150	668	45	200	35	2.94	9.1	13.6
12 DJ	150	668	45	200	35	2.94	14.5	21.6
16	150	668	45	200	100	0.74	5.2	7.7
16*	150	668	45	200	100	0.74	5.2	7.7
24*	150	668	45	200	100	0.74	5.7	8.5
24*	150	668	45	200	35	2.94	9.7	14.5
24*	150	668	45	200	100	2.94	13.1	19.5
24	128	569	38	171	128	2.94	11.4	17.0

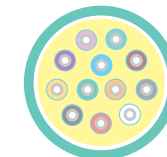
*These cable designs utilize color-coded binders to separate subunits.
DJ: Dual jacket design.

MECHANICAL SPECS

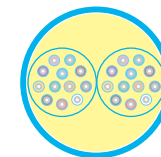
- Bend radius, no load
= 10x cable overall diameter
- Bend radius, load
= 15x cable overall diameter



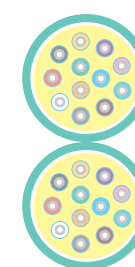
12 Fiber



24 Fiber



Zip Cord



New 2mm cable has 33% smaller OD and 56% smaller area than 3mm cable.

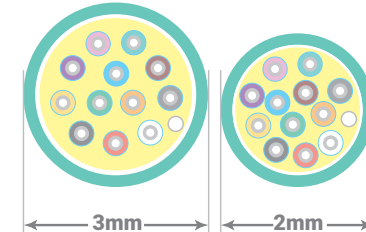


Diagram scale approx. 5:1



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