

Product Highlights

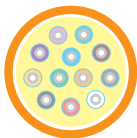
- RoHS Compliant
- OM2, OM3, & OM4 cables utilize Corning ClearCurve glass.
- 250 micron loose tube design allows for higher fiber strand counts in a smaller overall diameter cable
- Ideal for MT and MTP/MPO style connectors
- No gel design makes installation quick, easy and clean
- Each fiber is color coded for easy identification
- Flexible and easy to handle
- Lightweight, flexible Aramid yarns enhance strength

Options

- Riser rated cables available
- OM1 cables available
- Standard colors are yellow for singlemode, orange for multimode and aqua for 10 Gigabit -other colors are available
- OM4 cables with extended 10 gigabit distances are available

Applications

- See Page 91



12 fibers

Diagram scale approx. 3:1

NanoCore™ Loose Tube No Gel Distribution Single-Jacket (Plenum)

(UL) OFNP c(UL) FT6

Fiber Count	# Fibers per Tube	50 UM OM2	50 UM OM3	50 UM OM4	8.3 UM OS2	8.3 UM OS2BI
2	2	61506-2	61507-2	61883-2	61538-2	61715-2
6	6	61506-6	61507-6	61883-6	61538-6	61715-6
8	8	61506-8	61507-8	61883-8	61538-8	61715-8
12	12	61506-12	61507-12	61883-12	61538-12	61715-12
24	24	61506-24	61507-24	61883-24	61538-24	61715-24
6	2	61732-6	61736-6	61889-6	61724-6	61778-6
18	6	61733-18	61737-18	61890-18	61725-18	61779-18
36	12	61734-35	61738-36	61890-36	61726-36	61780-36
72	24	61735-72	61739-72	61890-72	61727-72	61781-72
8	2	61732-8	61736-8	61889-8	61724-8	61778-8
24	6	61733-24	61737-24	61890-24	61725-24	61779-24
48	12	61734-48	61738-48	61890-48	61726-48	61780-48
96	24	61735-96	61739-96	61890-96	61727-96	61781-96
12	2	61732-12	61736-12	61889-12	61724-12	61778-12
36	6	61733-36	61737-36	61890-36	61725-36	61779-36
72	12	61734-72	61738-72	61890-72	61726-72	61780-72
144	24	61735-144	61739-144	61890-144	61727-144	61781-144

Optical Specifications

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

HCM FIBER	Max Attenuation (dB/Km)		Min Bandwidth OFL MHz-Km		Min Bandwidth* MHz-Km		Gigabit Ethernet Support Distance (meters)		10 Gigabit Ethernet Support Distance (meters)	
	850 nm	1300 nm	850 nm	1300 nm	850 nm	1300 nm	850 nm	1300 nm	850 nm	1300 nm
OM1	3.25**	1.0	200	500	220	na	300	550	33	na
OM2	3.25**	1.0	700	500	850	na	750	550	150	na
OM3	3.0**	1.0	1500	500	2000	na	1000	550	300	na
OM4	3.0	1.0	3500	500	4700	na	1100	550	550	na

*EMBc for OM2, OM3 & OM4 fibers. RML for OM1 fibers.

	1310 nm	1550 nm
OS1	0.50	0.50
OS2	0.35	0.25
OS2 BI***	0.35	0.25

**OM1 & OM2 cables w/24 fibers/tube have max attenuation of 3.5dB/Km at 850 nm.

**OM3 cables w/24 fibers/tube have max attenuation of 3.25dB/Km at 850 nm.

***OS2 BI utilizes bend-insensitive optical glass

HCM reserves the right to revise any specifications.

Loose Tube

Indoor

NanoCore™ Loose Tube No Gel Distribution Single-Jacket (Plenum)

(UL) OFNP c(UL) FT6

FIBER COUNT	# Fibers per Tube	Tube Layout	Tube O.D.		CABLE O.D.		MAXIMUM LOAD INSTALL		OPERATION		CABLE WEIGHT	
			in.	mm	in.	mm	lbs-f	N	lbs-f	N	lbs/1000 ft	kg/1000m
2	2	-	0.118	3.0	0.118	3.0	64	284	32	142	5.5	8.2
6	6	-	0.118	3.0	0.118	3.0	64	284	32	142	5.6	8.3
8	8	-	0.118	3.0	0.118	3.0	64	284	32	142	5.7	8.5
12	12	-	0.118	3.0	0.118	3.0	64	284	32	142	5.9	8.8
24	24	-	0.177	4.5	0.177	4.5	100	445	50	223	13.1	19.5
6	2	3xCSM	0.144	3.66	0.372	9.45	192	855	96	427	53.1	79
18	6	3xCSM	0.144	3.66	0.372	9.45	192	855	96	427	53.7	79.9
36	12	3xCSM	0.144	3.66	0.372	9.45	192	855	96	427	54.5	81.1
72	24	3xCSM	0.177	4.5	0.443	11.25	300	1335	150	668	69.6	103.6
8	2	4xCSM	0.144	3.66	0.428	10.87	256	1140	128	570	81.2	120.8
24	6	4xCSM	0.144	3.66	0.428	10.87	256	1140	128	570	81.9	121.8
48	12	4xCSM	0.144	3.66	0.428	10.87	256	1140	128	570	82.9	123.4
96	24	4xCSM	0.177	4.5	0.507	12.88	400	1780	200	890	105.4	156.9
12	2	6xCSM	0.144	3.66	0.512	13.00	384	1709	192	855	120.4	179.2
36	6	6xCSM	0.144	3.66	0.512	13.00	384	1709	192	855	121.5	180.8
72	12	6xCSM	0.144	3.66	0.512	13.00	384	1709	192	855	123.0	183
144	24	6xCSM	0.177	4.5	0.612	15.54	600	2670	300	1335	161.7	240.6

Mechanical Specifications

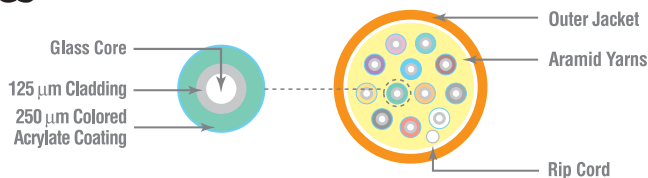
- Bend radius, no load = 10x cable overall diameter
- Bend radius, load = 15x cable overall diameter



10 Gigabit Applications

IEEE standard	Wavelength	Transmission	Fiber type	Length (m)
10GBASE-SR	850nm	Serialized	OM1	33
			OM2	82
			OM3	300
			OM4	550
10GBASE-LR	1310nm	Serialized	SM	10,000 - 25,000
10GBASE-LRM	1310nm	Serialized	OM1	220
			OM3	260
10GBASE-ER	1550nm	Serialized	SM	40,000
10GBASE-LX4	1300nm	WDM	MM	240-300
			SM	10,000

Features



DIELECTRIC MATERIALS

PLENUM

Overall Jacket

Low-smoke, flame-retardant thermoplastic