

MultiUnit

12 through 144 fibers

Product Highlights

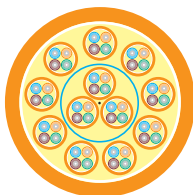
- RoHS compliant
- OM2, OM3, & OM4 cables utilize Corning ClearCurve glass.
- Each fiber is color coded for easy identification
- Compact distribution design
- Ideal intra-building, multi-floor cable solution
- Lightweight, flexible aramid yarns enhance strength

Options

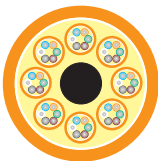
- Cables with a 600 micron buffer available
- Low smoke zero halogen available
- Standard colors are yellow for singlemode, orange for multimode and aqua for 10 Gigabit - other colors are available
- OM4 cables with extended 10 gigabit distances are available
- OS2 Bend insensitive optical glass available

Applications

- See Page 91



48-fibers (12 tubes of 4-fibers)



48-fibers (8 tubes of 6-fibers)



48-fibers (4 tubes of 12-fibers)

Diagram scale approx. 1:1

MultiUnit (Riser)

(UL) OFNR c(UL) FT4

Fiber Count	# Fibers per Tube	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	8.3 UM OS2
12	2	60369-12	60594-12	60585-12	61870-12	60621-12
24	2	60369-24	60594-24	60585-24	61870-24	60621-24
24	4	60564-24	60588-24	60591-24	61871-24	60627-24
48	4	60564-48	60588-48	60591-48	61871-48	60627-48
18	6	60567-18	60595-18	60581-18	61872-18	60633-18
24	6	60567-24	60595-24	60581-24	61872-24	60633-4
36	6	60567-36	60595-36	60581-36	61872-36	60633-36
48	6	60567-48	60595-48	60581-48	61872-48	60633-48
72	6	60567-72	60595-72	60581-72	61872-72	60633-72
24	8	60569-24	60600-24	60603-24	61873-24	60638-24
32	8	60569-32	60600-32	60603-32	61873-32	60638-32
48	8	60569-48	60600-48	60603-48	61873-48	60638-48
72	8	60569-72	60600-72	60603-72	61873-72	60638-72
36	12	60006-36	60009-36	60613-36	61874-36	60015-36
48	12	60006-48	60009-48	60613-48	61874-48	60015-48
60	12	60006-60	60009-60	60613-60	61874-60	60015-60
72	12	60006-72	60009-72	60613-72	61874-72	60015-72
96	12	60006-96	60009-96	60613-96	61874-96	60015-96
144	12	60006-144	60009-144	60613-144	61874-144	60015-144

Optical Specifications

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

HCM Fiber Performance Parameters	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	3.5	1.0	200	500	220	na	300	550	33	na
OM2	3.5	1.0	700	500	850	na	750	550	150	na
OM3	3.25	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
OS2	0.50	0.50

HCM reserves the right to revise any specifications.

Multimode and Singlemode MultiUnit

Indoor

MultiUnit (Riser)

(UL) OFNR c(UL) FT4

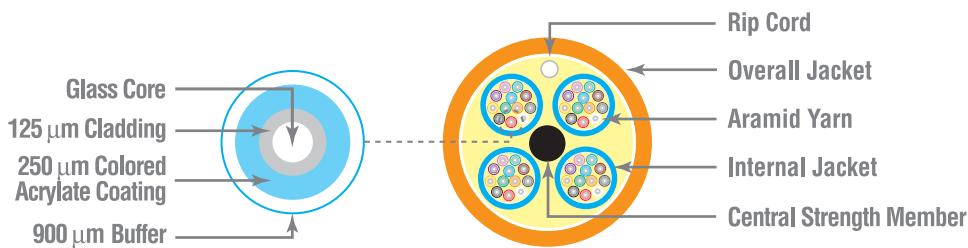
FIBER COUNT	#Fibers per Tube	Tube Layout	CABLE O.D.		MAXIMUM LOAD INSTALL		OPERATION		CABLE WEIGHT	
			in.	mm	lbs-f	N	lbs-f	N	lbs/1000 ft	kg/1000m
12	2	6xCSM	.630	16.0	768	3418	384	1709	131.0	195.2
24	2	9x3xCSM	.903	22.9	1536	6837	768	3418	249.0	371.0
24	4	6xCSM	.630	16.0	768	3418	384	1709	140.0	2086
48	4	9x3xCSM	.903	22.9	1536	6837	768	3418	263.0	391.9
18	6	3xCSM	.479	12.1	384	1709	192	854	77.0	114.7
24	6	4xCSM	.518	13.1	512	2279	256	1139	97.0	144.5
36	6	6xCSM	.630	16.0	768	3418	384	1709	148.0	220.5
48	6	8xCSM	.792	20.1	1024	4557	512	2279	253.0	377.0
72	6	9x3xCSM	.903	22.9	1536	6837	768	3418	280.0	417.2
24	8	3xCSM	.559	14.1	480	2136	240	1068	100.0	149.0
32	8	4xCSM	.614	15.5	640	3848	320	1424	127.0	189.2
48	8	6xCSM	.750	19.0	960	4273	480	2136	199.0	296.5
72	8	9xCSM	1.00	25.4	1440	6409	720	3204	393.0	585.6
36	12	3xCSM	.559	14.1	480	2136	240	1068	109.0	162.4
48	12	4xCSM	.614	15.5	640	2848	320	1424	139.0	207.1
60	12	5xCSM	.681	17.2	800	3561	400	1780	175.0	260.8
72	12	6xCSM	.750	19.0	960	4272	480	2136	216.0	321.8
96	12	8xCSM	.937	23.7	1280	5697	640	2848	360.0	536.4
144	12	9x3xCSM	1.06	26.9	1920	8545	960	4272	404.0	602.0

Mechanical Specifications

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



Features



DIELECTRIC MATERIALS

Overall Jacket

RISER

Flame-retardant thermoplastic

PLENUM

Low-smoke, flame-retardant thermoplastic

MultiUnit

12 through 144 fibers

Product Highlights

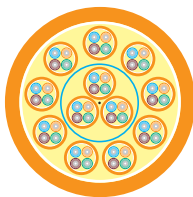
- RoHS compliant
- OM2, OM3, & OM4 cables utilize Corning ClearCurve glass.
- Each fiber is color coded for easy identification
- Compact distribution design
- Ideal intra-building, multi-floor cable solution
- Lightweight, flexible aramid yarns enhance strength

Options

- Cables with a 600 micron buffer 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



48-fibers (12 tubes of 4-fibers)



48-fibers (8 tubes of 6-fibers)



48-fibers (4 tubes of 12-fibers)

Diagram scale approx. 1:1

MultiUnit (Plenum)

(UL) OFNP c(UL) FT6

Fiber Count	# Fibers per Tube	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	8.3 UM OS2
12	2	60559-12	60582-12	60586-12	61875-12	60622-12
24	2	60559-24	60582-24	60586-24	61875-24	60622-24
24	4	60565-24	60589-24	60592-24	61876-24	60628-24
48	4	60565-48	60589-48	60592-48	61876-48	60628-48
18	6	60258-18	60596-18	60598-18	61877-18	60634-18
24	6	60258-24	60596-24	60598-24	61877-24	60634-24
36	6	60258-36	60596-36	60598-36	61877-36	60634-36
48	6	60258-48	60596-48	60598-48	61877-48	60634-48
72	6	60258-72	60596-72	60598-72	61877-72	60634-72
24	8	60570-24	60601-24	60604-24	61878-24	60639-24
32	8	60570-32	60601-32	60604-32	61878-32	60639-32
48	8	60570-48	60601-48	60604-48	61878-48	60639-48
72	8	60570-72	60601-72	60604-72	61878-72	60639-72
36	12	60027-36	60028-36	60614-36	61879-36	60033-36
48	12	60027-48	60028-48	60614-48	61879-48	60033-48
60	12	60027-60	60028-60	60614-60	61879-60	60033-60
72	12	60027-72	60028-72	60614-72	61879-72	60033-72
96	12	60027-96	60028-96	60614-96	61879-96	60033-96
144	12	60027-144	60028-144	60614-144	61879-144	60033-144

Optical Specifications

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

HCM Fiber Performance Parameters	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	3.5	1.0	200	500	220	na	300	550	33	na
OM2	3.5	1.0	700	500	850	na	750	550	150	na
OM3	3.25	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
OS2	0.50	0.50

HCM reserves the right to revise any specifications.

Multimode and Singlemode MultiUnit

Indoor

MultiUnit (Plenum)

(UL) OFNP c(UL) FT6

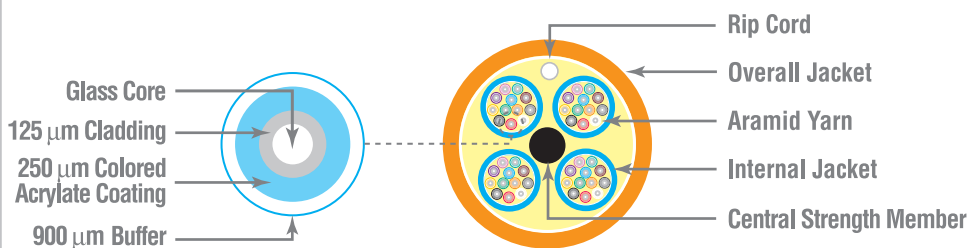
FIBER COUNT	#Fibers per Tube	Tube Layout	CABLE O.D.		MAXIMUM LOAD				CABLE WEIGHT	
			in.	mm	INSTALL lbs-f	OPERATION N	INSTALL lbs-f	OPERATION N	lbs/1000 ft	kg/1000m
12	2	6xC5M	.630	16.0	768	3418	384	1709	131.0	195.2
24	2	9x3xC5M	.903	22.9	1536	6837	768	3418	249.0	371.0
24	4	6xC5M	.630	16.0	768	3418	384	1709	140.0	208.6
48	4	9x3xC5M	.903	22.9	1536	6837	768	3418	263.0	391.9
18	6	3xC5M	.479	12.1	384	1709	192	854	77.0	114.7
24	6	4xC5M	.518	13.1	512	2279	256	1139	97.0	144.5
36	6	6xC5M	.630	16.0	768	3418	384	1709	148.0	220.5
48	6	8xC5M	.792	20.1	1024	4557	512	2279	253.0	377.0
72	6	9x3xC5M	.903	22.9	1536	6837	768	3418	280.0	417.2
24	8	3xC5M	.559	14.1	480	2136	240	1068	100.0	149.0
32	8	4xC5M	.614	15.5	640	3848	320	1424	127.0	189.2
48	8	6xC5M	.750	19.0	960	4273	480	2136	199.0	296.5
72	8	9xC5M	1.00	25.4	1440	6409	720	3204	393.0	585.6
36	12	3xC5M	.559	14.1	480	2136	240	1068	109.0	162.4
48	12	4xC5M	.614	15.5	640	2848	320	1424	139.0	207.1
60	12	5xC5M	.681	17.2	800	3561	400	1780	175.0	260.8
72	12	6xC5M	.750	19.0	960	4272	480	2136	216.0	321.8
96	12	8xC5M	.937	23.7	1280	5697	640	2848	360.0	536.4
144	12	9x3xC5M	1.06	26.9	1920	8545	960	4272	404.0	602.0

Mechanical Specifications

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



Features



DIELECTRIC MATERIALS

Overall Jacket

RISER

Flame-retardant thermoplastic

PLENUM

Low-smoke, flame-retardant thermoplastic