Loose Tube

12 through 144 fibers

Product Highlights

- RoHS compliant
- OM2, OM3, & OM4 cables utilize Corning ClearCurve glass.
- UV resistant jacket
- Gel filled loose tubes provide protection against water penetration
- Dry, super absorbent polymers (SAPs) eliminate water migration in cable interstices
- Suitable for lashed aerial, duct, underground conduit and indoor riser applications

Options

- Other configurations and fiber counts available
- Low smoke zero halogen 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 (6 tubes of 8-fibers)

48-fibers (4 tubes of 12-fibers)

Diagram scale approx. 1:1

Indoor/Outdoor Loose Tube (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	60701-12	60710-12	60714-12	61900-12	60720-12
24	2	60701-24	60710-24	60714-24	61900-24	60720-24
24	4	60344-24	60711-24	60715-24	61901-24	60721-24
48	4	60344-48	60711-48	60715-48	61901-48	60721-48
18	6	60106-18	60108-18	60716-18	61902-18	60110-18
24	6	60106-24	60108-24	60716-24	61902-24	60110-24
36	6	60106-36	60108-36	60716-36	61902-36	60110-36
48	6	60106-48	60108-48	60716-48	61902-48	60110-48
72	6	60106-72	60108-72	60716-72	61902-72	60110-72
24	8	60702-24	60712-24	60717-24	61903-24	60722-24
32	8	60702-32	60712-32	60717-32	61903-32	60722-32
48	8	60702-48	60712-48	60717-48	61903-48	60722-48
72	8	60702-72	60712-72	60717-72	61903-72	60722-72
36	12	60107-36	60109-36	60719-36	61904-36	60111-36
48	12	60107-48	60109-48	60719-48	61904-48	60111-48
60	12	60107-60	60109-60	60719-60	61904-60	60111-60
72	12	60107-72	60109-72	60719-72	61904-72	60111-72

Optical Specifications

TIA/EIA-568-C.3

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	3.25	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
OS2	0.35	0.25

HCM reserves the right to revise any specifications.

Loose Tube

Indoor/Outdoor Loose Tube (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	.422	10.7	600	2670	200	890	77.0	114.7
24	2	12xCSM	.595	15.1	600	2670	200	890	155	231.0
24	4	6xCSM	.422	10.7	600	2670	200	890	78.0	116.2
48	4	12xCSM	.595	15.1	600	2670	200	890	155	231.0
18	6	6xCSM	.422	10.7	600	2670	200	890	64	95.4
24	6	6xCSM	.422	10.7	600	2670	200	890	69.0	102.8
36	6	6xCSM	.422	10.7	600	2670	200	890	78.0	116.2
48	6	8XCSM	.482	12.2	600	2670	200	890	100	149.0
72	6	12XCSM	.595	15.1	600	2670	200	890	156	232.4
24	8	6xCSM	.422	10.7	600	2670	200	890	64	95.4
32	8	6xCSM	.422	10.7	600	2670	200	890	69.0	102.8
48	8	6xCSM	.422	10.7	600	2670	200	890	78.0	117.7
72	8	9XCSM	.509	12.9	600	2670	200	890	113	168.4
36	12	6xCSM	.466	11.8	600	2670	200	890	73.0	108.8
48	12	6xCSM	.422	11.8	600	2670	200	890	79.0	117.7
60	12	6xCSM	.466	11.8	600	2670	200	890	85.0	126.7
72	12	6xCSM	.466	11.8	600	2670	200	890	91.0	135.6

Mechanical Specifications

Bend radius

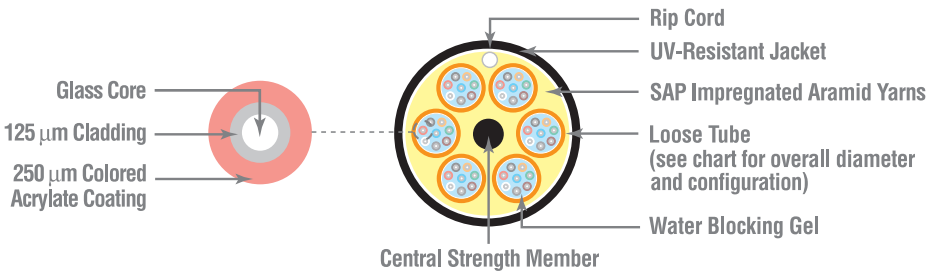
- No load = 10x cable overall diameter
- Load = 20x cable overall diameter

Loose Tube Diameter

	in.	mm
2-8 fibers per tube	.095	2.4
12-fibers per tube	.110	2.8

plus CORNING® ClearCurve® Optical Fiber

Features



DIELECTRIC MATERIALS

Overall Jacket — RISER — Flame-retardant thermoplastic

Indoor/Outdoor

Photo is for representation purposes only.

Mojave™

12 through 432 fibers

Product Highlights

- RoHS compliant
- UV resistant jacket
- Dry, super absorbent polymers (SAPs) eliminate water migration in cable interstices and loose tubes
- Suitable for lashed aerial, duct, and underground conduit applications
- Dual jacket constructions available

Options

- Other configurations and fiber counts available
- Corrugated steel armor available
- Dual jacket constructions available
- Low smoke zero halogen available
- Up to 432 fibers available
- OM4 cables with extended 10 gigabit distances are available

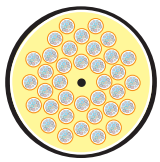
Applications

- See Page 91

48-fibers (12 tubes of 4-fibers)

48-fibers (8 tubes of 6-fibers)

48-fibers (4 tubes of 12-fibers)



432-fibers (36 tubes of 12-fibers)

Diagram scale approx. 1:1

Mojave™ Dry-Block Outdoor (Outside Plant) Loose Tube

Fiber Count	# Fibers per Tube	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	8.3 UM OS2
12	2	61963-12	61967-12	61971-12	61975-12	61952-12
24	2	61963-24	61967-24	61971-24	61975-24	61952-24
24	4	61964-24	61968-24	61972-24	61976-24	61953-24
48	4	61964-48	61968-48	61972-48	61976-48	61953-48
18	6	61965-18	61969-18	61973-18	61977-18	61954-18
24	6	61965-24	61969-24	61973-24	61977-24	61954-24
36	6	61965-36	61969-36	61973-36	61977-36	61954-36
48	6	61965-48	61969-48	61973-48	61977-48	61954-48
12	12	61966-12	61970-12	61974-12	61978-12	61955-12
24	12	61966-24	61970-24	61974-24	61978-24	61955-24
36	12	61966-36	61970-36	61974-36	61978-36	61955-36
48	12	61966-48	61970-48	61974-48	61978-48	61955-48
60	12	61966-60	61970-60	61974-60	61978-60	61955-60
72	12	61966-72	61970-72	61974-72	61978-72	61955-72
84	12	61966-84	61970-84	61974-84	61978-84	61955-84
96	12	61966-96	61970-96	61974-96	61978-96	61955-96
108	12	61966-108	61970-108	61974-108	61978-108	61955-108
120	12	61966-120	61970-120	61974-120	61978-120	61955-120
132	12	61966-132	61970-132	61974-132	61978-132	61955-132
144	12	61966-144	61970-144	61974-144	61978-144	61955-144
168	12	61966-168	61970-168	61974-168	61978-168	61955-168
192	12	61966-192	61970-192	61974-192	61978-192	61955-192
216	12	61966-216	61970-216	61974-216	61978-216	61955-216
240	12	61966-240	61970-240	61974-240	61978-240	61955-240
264	12	61966-264	61970-264	61974-264	61978-264	61955-264

Optical Specifications

TIA/EIA-568-C.3

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	3.25	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
OS2	0.35	0.25

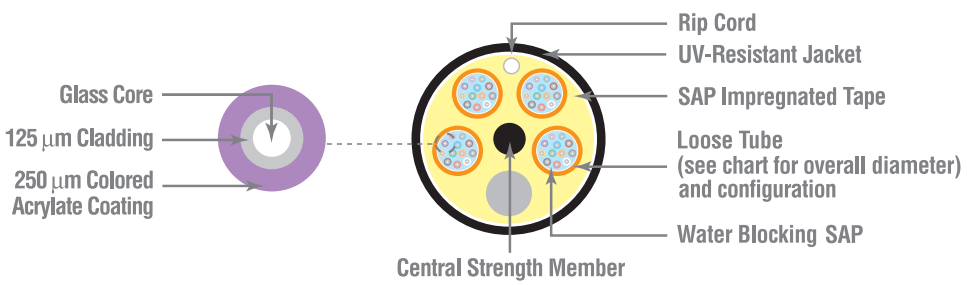
HCM reserves the right to revise any specifications.

Loose Tube

Mojave™ Dry-Block Outdoor (Outside Plant) Loose Tube

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
12	2	6xCSM	.493	12.5	600	2670	200	890	63.8
24	2	12XCSM	.695	17.7	600	2670	200	890	139.6
24	4	6xCSM	.493	12.5	600	2670	200	890	64.8
48	4	12XCSM	.695	17.7	600	2670	200	890	139.6
18	6	5XCSM	.463	11.7	600	2670	200	890	50.9
24	6	5XCSM	.463	11.7	600	2670	200	890	53.2
36	6	6xCSM	.493	12.5	600	2670	200	890	64.8
48	6	8XCSM	.561	14.2	600	2670	200	890	83.4
12	12	5XCSM	.463	11.7	600	2670	200	890	46.3
24	12	5XCSM	.463	11.7	600	2670	200	890	48.6
36	12	5XCSM	.463	11.7	600	2670	200	890	50.9
48	12	5XCSM	.463	11.7	600	2670	200	890	53.2
60	12	5XCSM	.463	11.7	600	2670	200	890	55.5
72	12	6xCSM	.493	12.5	600	2670	200	890	65.8
84	12	7XCSM	.552	14.0	600	2670	200	890	81.1
96	12	8XCSM	.581	14.8	600	2670	200	890	92.4
108	12	9XCSM	.611	15.5	600	2670	200	890	104.7
120	12	10XCSM	.649	16.5	600	2670	200	890	120
132	12	11XCSM	.683	17.3	600	2670	200	890	134.3
144	12	12XCSM	.715	18.2	600	2670	200	890	150.6
168	12	12X6XCSM	.737	18.7	600	2670	200	890	1406.2
192	12	12X6XCSM	.737	18.7	600	2670	200	890	123.8
216	12	12X6XCSM	.737	18.7	600	2670	200	890	128.4
240	12	13X7XCSM	.770	19.6	600	2670	200	890	141
264	12	14X8XCSM	.805	20.4	600	2670	200	890	158.6

Features



DIELECTRIC MATERIALS

Overall Jacket — Medium density polyolefin

Mechanical Specifications

Bend radius

- No load = 10x cable overall diameter
- Load = 20x cable overall diameter

Loose Tube Diameter

	in.	mm
2-12 fibers per tube	.110	2.8

plus CORNING® ClearCurve® Optical Fiber

Outdoor

Photo is for representation purposes only.

Loose Tube

12 through 432 fibers

Product Highlights

- RoHS compliant
- UV resistant jacket
- Gel filled loose tubes provide protection against water penetration
- Dry, super absorbent polymers (SAPs) eliminate water migration in cable interstices
- Suitable for lashed aerial, duct, and underground conduit applications
- SM Fiber is RDUP approved

Options

- Other configurations and fiber counts available
- Dual jacket constructions available
- Low smoke zero halogen available
- Up to 432 fibers available
- OM4 cables with extended 10 gigabit distances are available

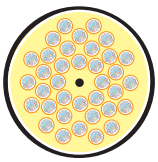
Applications

- See Page 91

48-fibers (12 tubes of 4-fibers)

48-fibers (8 tubes of 6-fibers)

48-fibers (4 tubes of 12-fibers)



432-fibers (36 tubes of 12-fibers)

Diagram scale approx. 1:1

Outdoor (Outside Plant) Loose Tube

Fiber Count	# Fibers per Tube	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	8.3 UM OS2
12	2	60351-12	60282-12	60938-12	61905-12	60950-12
24	2	60351-24	60282-24	60938-24	61905-24	60950-24
24	4	60235-24	60408-24	60939-24	61906-24	60951-24
48	4	60235-48	60408-48	60939-48	61906-48	60951-48
18	6	60085-18	60087-18	60940-18	61907-18	60089-18
24	6	60085-24	60087-24	60940-24	61907-24	60089-24
36	6	60085-36	60087-36	60940-36	61907-36	60089-36
48	6	60085-48	60087-48	60940-48	61907-48	60089-48
12	12	60086-12	60088-12	60943-12	61908-12	60090-12
24	12	60086-24	60088-24	60943-24	61908-24	60090-24
36	12	60086-36	60088-36	60943-36	61908-36	60090-36
48	12	60086-48	60088-48	60943-48	61908-48	60090-48
60	12	60086-60	60088-60	60943-60	61908-60	60090-60
72	12	60086-72	60088-72	60943-72	61908-72	60090-72
84	12	60086-84	60088-84	60943-84	61908-84	60090-84
96	12	60086-96	60088-96	60943-96	61908-96	60090-96
108	12	60086-108	60088-108	60943-108	61908-108	60090-108
120	12	60086-120	60088-120	60943-120	61908-120	60090-120
132	12	60086-132	60088-132	60943-132	61908-132	60090-132
144	12	60086-144	60088-144	60943-144	61908-144	60090-144
168	12	60086-168	60088-168	60943-168	61908-168	60090-168
192	12	60086-192	60088-192	60943-192	61908-192	60090-192
216	12	60086-216	60088-216	60943-216	61908-216	60090-216
240	12	60086-240	60088-240	60943-240	61908-240	60090-240
264	12	60086-264	60088-264	60943-264	61908-264	60090-264

Optical Specifications

TIA/EIA-568-C.3 | RDUP 7CFR.1755

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	3.25	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
OS2	0.35	0.25

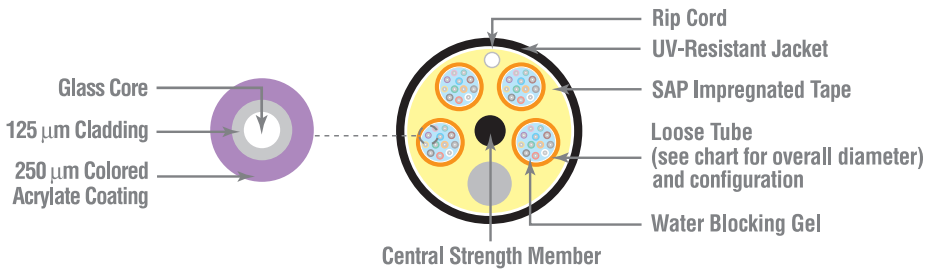
HCM reserves the right to revise any specifications.

Loose Tube

Outdoor (Outside Plant) Loose Tube

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	.493	12.5	600	2670	200	890	74.0	110.3
24	2	12XCSM	.700	17.8	600	2670	200	890	160.0	238.4
24	4	6xCSM	.493	12.5	600	2670	200	890	75.0	111.8
48	4	12XCSM	.700	17.8	600	2670	200	890	160.0	238.4
18	6	5XCSM	.463	11.7	600	2670	200	890	56.0	83.4
24	6	5XCSM	.463	11.7	600	2670	200	890	60.0	89.4
36	6	6xCSM	.493	12.5	600	2670	200	890	75.0	111.8
48	6	8XCSM	.561	14.2	600	2670	200	890	97.0	144.5
12	12	5XCSM	.463	11.7	600	2670	200	890	48.0	71.5
24	12	5XCSM	.463	11.7	600	2670	200	890	52.0	77.5
36	12	5XCSM	.463	11.7	600	2670	200	890	56.0	83.4
48	12	5XCSM	.463	11.7	600	2670	200	890	60.0	89.4
60	12	5XCSM	.463	11.7	600	2670	200	890	64.0	95.4
72	12	6xCSM	.493	12.5	600	2670	200	890	76.0	113.2
84	12	7XCSM	.552	14.0	600	2670	200	890	93.0	138.6
96	12	8XCSM	.581	14.8	600	2670	200	890	106.0	157.9
108	12	9XCSM	.620	15.7	600	2670	200	890	120.0	178.8
120	12	10XCSM	.649	16.5	600	2670	200	890	137.0	204.1
132	12	11XCSM	.683	17.3	600	2670	200	890	153.0	228.0
144	12	12XCSM	.720	18.3	600	2670	200	890	171.0	255.0
168	12	12X6XCSM	.737	18.7	600	2670	200	890	1430	213.1
192	12	12X6XCSM	.737	18.7	600	2670	200	890	151.0	225.0
216	12	12X6XCSM	.737	18.7	600	2670	200	890	159.0	236.9
240	12	13X7XCSM	.770	19.6	600	2670	200	890	175.0	260.8
264	12	14X8XCSM	.805	20.4	600	2670	200	890	196.0	292.0

Features



DIELECTRIC MATERIALS

Overall Jacket — Medium density polyolefin

Mechanical Specifications

Bend radius

- No load = 10x cable overall diameter
- Load = 20x cable overall diameter

Loose Tube Diameter

	in.	mm
2-12 fibers per tube	.110	2.8

plus CORNING® ClearCurve® Optical Fiber

Photo is for representation purposes only.

Loose Tube

12 through 144 fibers

Product Highlights

- RoHS compliant
- Rugged corrugated steel armor provides extra crush-resistance and rodent protection
- UV resistant jacket
- Gel filled loose tube provides protection against water penetration
- Dry, super absorbent polymers (SAPs) eliminate water migration in cable interstices
- Suitable for lashed aerial, duct, and underground conduit applications

Options

- Other configurations and fiber counts available
- Dual jacket constructions available
- Low smoke zero halogen available
- OM4 cables with extended 10 gigabit distances are available

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

Outdoor (Outside Plant) Armored

Fiber Count	# Fibers per Tube	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	8.3 UM OS2
24	2	60346-24	60932-24	60944-24	61909-24	60954-24
48	4	60345-48	60933-48	60945-48	61910-48	60356-48
48	6	60097-48	60934-48	60946-48	61911-48	60101-48
12	12	60098-12	60937-12	60949-12	61912-12	60102-12
24	12	60098-24	60937-24	60949-24	61912-24	60102-24
48	12	60098-48	60937-48	60949-48	61912-48	60102-48
144	12	60098-144	60937-144	60949-144	61912-144	60102-144

Optical Specifications

TIA/EIA-568-C.3

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	3.25	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
OS2	0.35	0.25

HCM reserves the right to revise any specifications.

Outdoor (Outside Plant) Armored

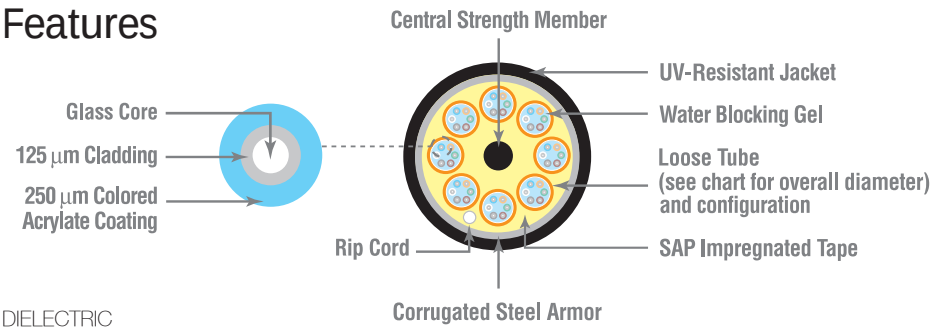
FIBER COUNT	#Fibers per Tube	Tube Layout	CABLE O.D.		MAXIMUM LOAD INSTALL		OPERATION		CABLE WEIGHT	
			in.	mm	lbs-f	N	lbs-f	N	lbs/1000 ft	kg/1000m
24	2	12xCSM	0.748	19.0	600	2700	200	890	228.0	339.7
48	4	12xCSM	0.748	19.0	600	2700	200	890	229.0	341.2
48	6	8XCSM	0.613	15.6	600	2700	200	890	147.0	219.0
12	12	5XCSM	0.508	13.1	600	2700	200	890	97.0	144.5
24	12	5XCSM	0.508	13.1	600	2700	200	890	101.0	150.0
48	12	5XCSM	0.508	13.1	600	2700	200	890	110.0	163.9
144	12	12xCSM	0.768	19.5	600	2700	200	890	241.0	359.1

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

For complete application list, refer to page 91.

Features



DIELECTRIC MATERIALS

Overall Jacket — Medium density polyolefin

Mechanical Specifications

Bend radius

- No load = 10x cable overall diameter
- Load = 20x cable overall diameter

Loose Tube Diameter

	in.	mm
2-12 fibers per tube	.110	2.8

plus CORNING® ClearCurve® Optical Fiber

Photo is for representation purposes only.