

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
OS2			1310 nm	1550 nm						
	0.35	0.25								

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

HCM reserves the right to revise any specifications.

Armored Loose Tube

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	12xC5M	0.748	19.0	600	2700	200	890	228.0	339.7
48	4	12xC5M	0.748	19.0	600	2700	200	890	229.0	341.2
48	6	8XC5M	0.613	15.6	600	2700	200	890	147.0	219.0
12	12	5XC5M	0.508	13.1	600	2700	200	890	97.0	144.5
24	12	5XC5M	0.508	13.1	600	2700	200	890	101.0	150.0
48	12	5XC5M	0.508	13.1	600	2700	200	890	110.0	163.9
144	12	12xC5M	0.768	19.5	600	2700	200	890	241.0	359.1

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

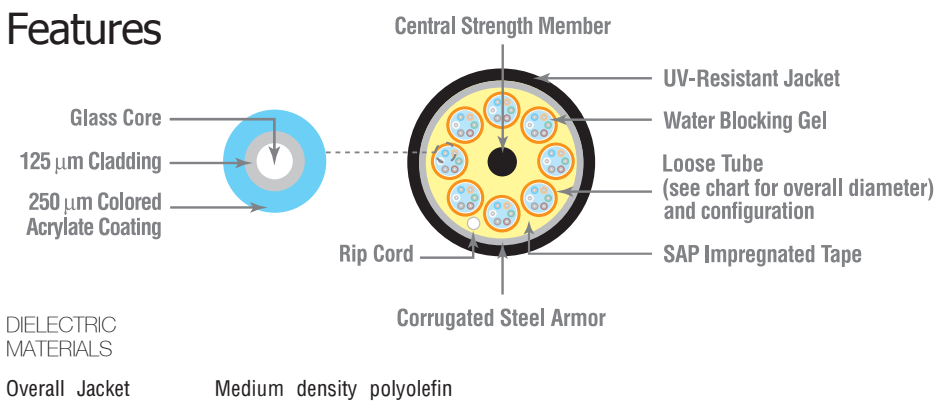


10 Gigabit Applications

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



Outdoor Armored