

Loose Tube 12 through 144 fibers

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Product Highlights

- REACH, RoHS & RoHS 2 compliant.
- Made in USA.
- All multimode, and singlemode cables (except OM1) utilize bend-insensitive optical fibers.
- 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 optic cable is RDUP approved

Options

- Other configurations and fiber counts available.
- OS2 optical fibers with enhanced bend-insensitive performance are available.
- Dual jacket constructions available.
- Low smoke zero halogen available.
- Up to 432 fibers available.
- OM4 optical fibers with extended 10 gigabit Ethernet distances are available.

Applications

- Applications include 10, 40 & 100 gigabit Ethernet, Fibre Channel, Video, Security and Automation.

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

Features

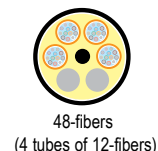
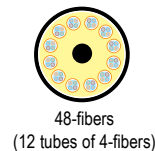
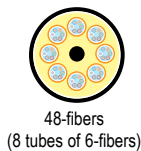
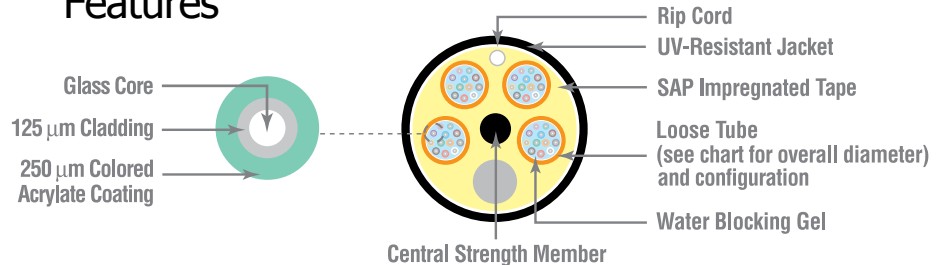


Diagram scale approx. 1:1

Outdoor (Outside Plant) Loose Tube

FIBER COUNT	FIBERS PER TUBE	TUBE LAYOUT	CABLE O.D.		RECOMMENDED INSTALL		MAXIMUM LOADS 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

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



FIBER

Note: See page 105 for cable temperature ranges.

Optical Specifications

TIA/EIA-568-C.3

Fiber type	Max. Attenuation		Min OFL Bandwidth		Min EMBc Bandwidth		Gb Ethernet distance		10 Gb Ethernet distance	
	(dB/km)		(MHz-km)		(MHz-km)		(m)		(m)	
	850nm (MM) or 1310nm (SM)	1300nm (MM) or 1550nm (SM)	850nm (MM) or 1310nm (SM)	1300nm (MM) or 1550nm (SM)	850nm (MM) or 1310nm (SM)	1300nm (MM) or 1550nm (SM)	850nm (MM) or 1310nm (SM)	1300nm (MM) or 1550nm (SM)	850nm (MM) or 1310nm (SM)	1300nm (MM) or 1550nm (SM)
OM1	3.25	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
OS2	0.4	0.3	N/A	N/A	N/A	N/A	> 25,000	> 40,000	10,000 - 25,000	40000

Hitachi Cable America reserves the right to revise any specifications.

