

Loose Tube

12 through 144 fibers

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Product Highlights

- REACH & RoHS 2 compliant.
- Made in USA.
- All multimode, and singlemode cables (except OM1) utilize bend-insensitive optical fibers.
- UV and fungus 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.
- 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 (LSZH) available.
- Up to 432 fibers available.
- OM4 optical fibers with extended 10 gigabit Ethernet distances are available.
- Wideband multimode fiber is available.

Applications

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

Standards

- TIA/EIA-568-C.3
- ISO/IEC 11801, 2nd edition
- Telcordia GR-20-CORE

Outdoor (Outside Plant) Loose Tube

PART NUMBERS BY FIBER COUNT

FIBERS	FIBERS/TUBE	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	50 UM OM5	8.3 UM OS2
18	6	60085-18	60087-18	60940-18	61907-18	62773-18	60089-18
24	6	60085-24	60087-24	60940-24	61907-24	62773-24	60089-24
12	12	60086-12	60088-12	60943-12	61908-12	62774-12	60090-12
24	12	60086-24	60088-24	60943-24	61908-24	62774-24	60090-24
36	12	60086-36	60088-36	60943-36	61908-36	62774-36	60090-36
48	12	60086-48	60088-48	60943-48	61908-48	62774-48	60090-48
60	12	60086-60	60088-60	60943-60	61908-60	62774-60	60090-60
72	12	60086-72	60088-72	60943-72	61908-72	62774-72	60090-72
84	12	60086-84	60088-84	60943-84	61908-84	62774-84	60090-84
96	12	60086-96	60088-96	60943-96	61908-96	62774-96	60090-96
108	12	60086-108	60088-108	60943-108	61908-108	62774-108	60090-108
120	12	60086-120	60088-120	60943-120	61908-120	62774-120	60090-120
132	12	60086-132	60088-132	60943-132	61908-132	62774-132	60090-132
144	12	60086-144	60088-144	60943-144	61908-144	62774-144	60090-144

SPECIFICATIONS BY FIBER COUNT

FIBERS	FIBERS/TUBE	TUBE LAYOUT	RECOMMENDED MAXIMUM LOADS							
			CABLE O.D.		INSTALL		OPERATION		CABLE WEIGHT	
			in.	mm	lbs-f	N	lbs-f	N	lbs/1000 ft	kg/1000m
18	6	5XCSCM	.463	11.7	600	2670	180	800	56.0	83.4
24	6	5XCSCM	.463	11.7	600	2670	180	800	60.0	89.4
12	12	5XCSCM	.463	11.7	600	2670	180	800	62.9	93.7
24	12	5XCSCM	.463	11.7	600	2670	180	800	64.2	95.6
36	12	5XCSCM	.463	11.7	600	2670	180	800	65.1	97.0
48	12	5XCSCM	.463	11.7	600	2670	180	800	66.2	98.6
60	12	5XCSCM	.463	11.7	600	2670	180	800	67.0	99.8
72	12	6XCSCM	.493	12.5	600	2670	180	800	76.0	113.2
84	12	7XCSCM	.552	14.0	600	2670	180	800	93.0	138.6
96	12	8XCSCM	.581	14.8	600	2670	180	800	106.0	157.9
108	12	9XCSCM	.620	15.7	600	2670	180	800	120.0	178.8
120	12	10XCSCM	.649	16.5	600	2670	180	800	137.0	204.1
132	12	11XCSCM	.683	17.3	600	2670	180	800	153.0	228.0
144	12	12XCSCM	.720	18.3	600	2670	180	800	171.0	255.0

Cable Characteristics

Note: Part number rows in upper table directly correspond to cable characteristic rows in the same location of the lower table.

Outdoor (Outside Plant) Loose Tube

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

Optical Specifications

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

Fiber type	Max. Attenuation (dB/km)		Min OFL Bandwidth (MHz-km)		Min EMBc Bandwidth (MHz-km)		Gb Ethernet distance (m)		10 Gb Ethernet distance (m)	
	850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)
OM1	3.5	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
OM5*	3.0	1.0	3500	500	4700	N/A	1100	550	550	N/A
	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)
OS2	0.4	0.3	N/A	N/A	N/A	N/A	> 25,000	> 40,000	10,000 - 25,000	40,000

Hitachi Cable America reserves the right to revise any specifications.

*OM5 optical fiber tested by glass manufacturer and exceeds the requirements of all applicable industry standards.

Cable Temperature Ranges

Storage: -40° to 70°C (-40° to 158°F)

Installation: -30° to 60°C (-22° to 140°F)

Operating: -40° to 70°C (-40° to 158°F)

Features

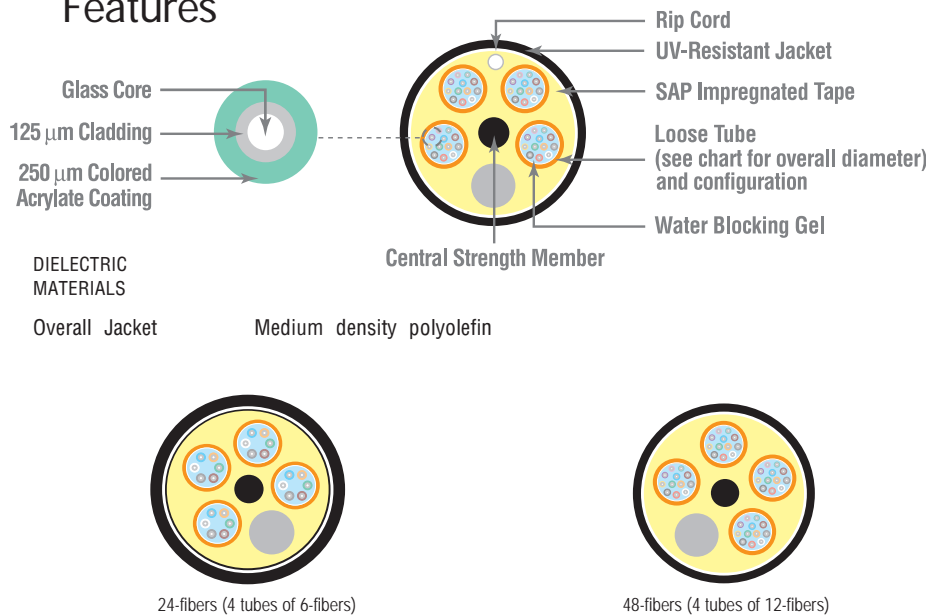


Diagram scale approx. 1:1

