

# Loose Tube

12 through 432 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, underground conduit and indoor riser applications

## Options

- Other configurations and fiber counts available
- Interlock steel armor available
- Dual jacket constructions available
- Cables with improved attenuation available
- Low smoke zero halogen available
- Cables with extended 10 Gigabit Ethernet support distances 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

## 50/125µm Multimode OSP Armored

HITACHI PART NO.	# OF FIBERS PER TUBE	FIBER COUNT	TUBE LAYOUT	CABLE O.D.		MAXIMUM LOAD INSTALL		OPERATION		CABLE WEIGHT	
				in.	mm	lbs-f	N	lbs-f	N	lbs/1000	kg/1000m
<b>50/125 µm Multimode (50/125/250)</b>											
60932-24	2	24	12xCSM	.748	19.0	600	2700	600	2700	228.0	339.7
60933-48	4	48	12xCSM	.748	19.0	600	2700	600	2700	229.0	341.2
60934-48	6	48	8xCSM	.613	15.6	600	2700	600	2700	147.0	219.0
60937-12	12	12	5xCSM	.508	13.1	600	2700	600	2700	97.0	144.5
60937-24	12	24	5xCSM	.508	13.1	600	2700	600	2700	101.0	150.5
60937-48	12	48	5xCSM	.508	13.1	600	2700	600	2700	110.0	163.9
60937-144	12	144	12xCSM	.768	19.5	600	2700	600	2700	241.0	359.1

## 50/125 µm StratusClear™ Multimode (50/125/250)

60944-24	2	24	12xCSM	.748	19.0	600	2700	600	2700	228.0	339.7
60945-48	4	48	12xCSM	.748	19.0	600	2700	600	2700	229.0	341.2
60946-48	6	48	8xCSM	.613	15.6	600	2700	600	2700	147.0	219.0
60949-12	12	12	5xCSM	.508	13.1	600	2700	600	2700	97.0	144.5
60949-24	12	24	5xCSM	.508	13.1	600	2700	600	2700	101.0	150.5
60949-48	12	48	5xCSM	.508	13.1	600	2700	600	2700	110.0	163.9
60949-144	12	144	6xCSM	.768	19.5	600	2700	600	2700	241.0	359.1

CSM = Central Strength Member

## Optical Specifications

TIA/EIA-568-B.3/B.3-1 | ISO/IEC 11801, 2nd edition | Bellcore GR-20-CORE

	50/125 µm MULTIMODE	50/125 µm STRATUSCLEAR MULTIMODE
MAXIMUM ATTENUATION	≤ 3.25 dB/km at 850 nm ≤ 1.0 dB/km at 1300 nm	≤ 3.0 dB/km at 850 nm ≤ 1.0 dB/km at 1300 nm
MINIMUM BANDWIDTH (OFL)	500 MHz•km at 850 nm 500 MHz•km at 1300 nm	1500 MHz•km at 850 nm 500 MHz•km at 1300 nm
MINIMUM BANDWIDTH (RML)	510 MHz•km at 850 nm n/s	1400 MHz•km at 850 nm n/s
GIGABIT ETHERNET SUPPORT DISTANCE	600 m at 850 nm 600 m at 1300 nm	1000 m at 850 nm 1000 m at 1300 nm
10 GIGABIT ETHERNET SUPPORT DISTANCE	n/s n/s	300 m at 850 nm n/s

HCM reserves the right to revise any specifications.

# Multimode Armored Loose Tube

## 62.5/125µm Multimode OSP Armored

HITACHI PART NO.	# OF FIBERS PER TUBE	FIBER COUNT	TUBE LAYOUT	CABLE O.D.		MAXIMUM LOAD INSTALL		OPERATION		CABLE WEIGHT	
				in.	mm	lbs-f	N	lbs-f	N	lbs/1000	kg/1000m
<b>62.5/125 µm Multimode (62.5/125/250)</b>											
60346-24	2	24	12xCSM	.748	19.0	600	2700	600	2700	228.0	339.7
60345-48	4	48	12xCSM	.748	19.0	600	2700	600	2700	229.0	341.2
60097-48	6	48	8xCSM	.613	15.6	600	2700	600	2700	147.0	219.0
60098-12	12	12	5xCSM	.508	13.1	600	2700	600	2700	97.0	144.5
60098-24	12	24	5xCSM	.508	13.1	600	2700	600	2700	101.0	150.5
60098-48	12	48	5xCSM	.508	13.1	600	2700	600	2700	110.0	163.9
60098-144	12	144	12xCSM	.768	19.5	600	2700	600	2700	241.0	359.1
<b>62.5/125 µm StratusClear™ Multimode (62.5/125/250)</b>											
60926-24	2	24	12xCSM	.748	19.0	600	2700	600	2700	228.0	339.7
60927-48	4	48	12xCSM	.748	19.0	600	2700	600	2700	229.0	341.2
60928-48	6	48	8xCSM	.613	15.6	600	2700	600	2700	147.0	219.0
60931-12	12	12	5xCSM	.508	13.1	600	2700	600	2700	97.0	144.5
60931-24	12	24	5xCSM	.508	13.1	600	2700	600	2700	101.0	150.5
60931-48	12	48	5xCSM	.508	13.1	600	2700	600	2700	110.0	163.9
60931-144	12	144	6xCSM	.768	19.5	600	2700	600	2700	241.0	359.1

CSM = Central Strength Member

## Mechanical Specifications

### Bend radius

- No load = 20x cable overall diameter
- Load = 40x cable overall diameter

### Loose Tube Diameter

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

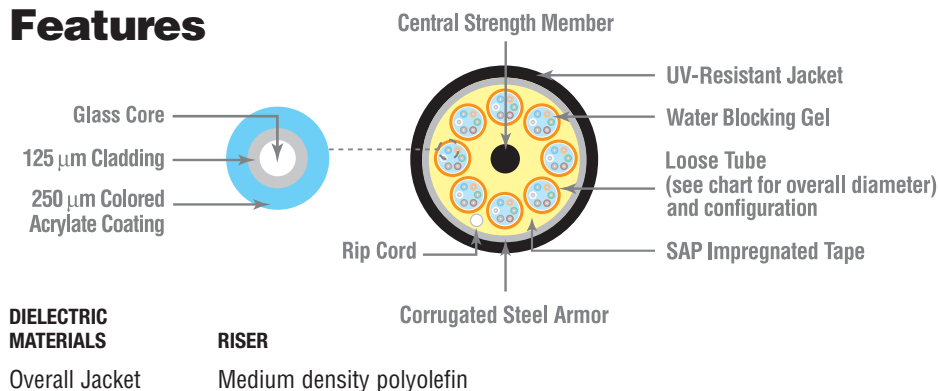


## Optical Specifications

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	62.5/125 µm MULTIMODE	62.5/125 µm STRATUSCLEAR MULTIMODE
MAXIMUM ATTENUATION	≤ 3.25 dB/km at 850 nm ≤ 1.0 dB/km at 1300 nm	≤ 3.0 dB/km at 850 nm ≤ 1.0 dB/km at 1300 nm
MINIMUM BANDWIDTH (OFL)	200 MHz•km at 850 nm 500 MHz•km at 1300 nm	200 MHz•km at 850 nm 500 MHz•km at 1300 nm
MINIMUM BANDWIDTH (RML)	220 MHz•km at 850 nm n/s	385 MHz•km at 850 nm n/s
GIGABIT ETHERNET SUPPORT DISTANCE	300 m at 850 nm 550 m at 1300 nm	500 m at 850 nm 1000 m at 1300 nm
10 GIGABIT ETHERNET SUPPORT DISTANCE	n/s n/s	n/s n/s

## Features



Outdoor Armored