

# 50/125 $\mu\text{m}$ and StratusClear™ Multimode Interconnect

Indoor

## 50/125 $\mu\text{m}$ Multimode Interconnect (Plenum)

(UL) OFNP us FT6

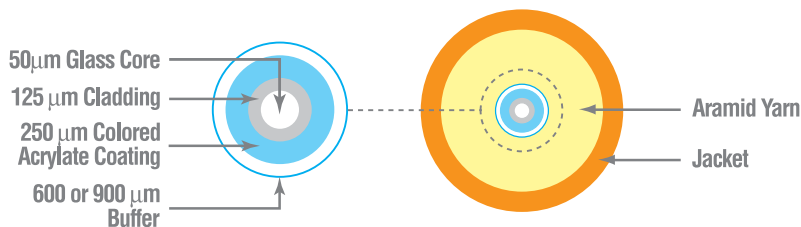
HITACHI PART NO.	FIBER COUNT	CABLE O.D.		MAXIMUM LOAD INSTALL		OPERATION		CABLE WEIGHT	
		in.	mm	lbs-f	N	lbs-f	N	lbs/1000 ft	kg/1000m
<b>✓ 50/125 <math>\mu\text{m}</math> Multimode (50/125/250/900)</b>									
60022-1	1	.114	2.9	96	427	48	213	5.6	8.3
60468-1	1	.094	2.4	96	427	48	213	4.7	6.9
60469-1	1	.083	2.1	48	213	24	106	3.6	5.3
✓ 60470-1	1	.063	1.6	48	213	24	106	2.0	2.9
60026-2	2	.190	4.8	128	569	64	284	13.1	19.4
60022-2	2	.114	2.9	96	427	48	213	6.4	9.5
61492-2	2	.098	2.5	96	427	48	213	4.3	6.3
60008-2	zip	.113 x.235 2.9 x 6.0		128	569	64	284	13.2	19.6
<b>✓ 50/125 <math>\mu\text{m}</math> StratusClear™ Multimode (50/125/250/900)</b>									
60472-1	1	.114	2.9	96	427	48	213	5.6	8.3
60473-1	1	.094	2.4	96	427	48	213	4.7	6.9
60474-1	1	.083	2.1	48	213	24	106	3.6	5.3
✓ 60475-1	1	.063	1.6	48	213	24	106	2.0	2.9
60471-2	2	.190	4.8	128	569	64	284	13.1	19.4
60472-2	2	.114	2.9	96	427	48	213	6.4	9.5
61488-2	2	.098	2.5	96	427	48	213	4.3	6.3
60502-2	zip	.113 x.235 2.9 x 6.0		128	569	64	284	13.2	19.6
<b>✓ 50/125 <math>\mu\text{m}</math> Multimode (50/125/250/600) *Special Applications</b>									
60453-1	1	.114	2.9	96	427	48	213	5.2	7.7
60454-1	1	.094	2.4	96	427	48	213	4.3	6.3
60455-1	1	.083	2.1	48	213	24	106	3.2	4.7
✓ 60456-1	1	.063	1.6	48	213	24	106	1.6	2.3
60452-2	2	.190	4.8	128	569	64	284	12.3	18.3
60453-2	2	.114	2.9	96	427	48	213	5.7	8.4
60454-2	2	.094	2.4	96	427	48	213	3.5	5.2
60498-2	zip	.113 x.235 2.9 x 6.0		128	569	64	284	12.4	18.4
<b>✓ 50/125 <math>\mu\text{m}</math> StratusClear™ Multimode (50/125/250/600) *Special Applications</b>									
60458-1	1	.114	2.9	96	427	48	213	5.2	7.7
60459-1	1	.094	2.4	96	427	48	213	4.3	6.3
60460-1	1	.083	2.1	48	213	24	106	3.2	4.7
✓ 60461-1	1	.063	1.6	48	213	24	106	1.6	2.3
60457-2	2	.190	4.8	128	569	64	284	12.3	18.3
60458-2	2	.114	2.9	96	427	48	213	5.7	8.4
60459-2	2	.094	2.4	96	427	48	213	3.5	5.2
60500-2	zip	.113 x.235 2.9 x 6.0		128	569	64	284	12.4	18.4

## Mechanical Specifications

- Bend radius, no load = 10x cable overall diameter
- Bend radius, load = 15x cable overall diameter



## Features



DIELECTRIC MATERIALS

Overall Jacket

RISER

Flame-retardant thermoplastic

PLENUM

Low-smoke, flame-retardant thermoplastic

# 1-fiber, 2-fiber and zip Interconnect

## Product Highlights

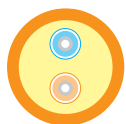
- ✓ Most commonly specified diameters denoted by checkmarks in tables
- RoHS compliant
- 900 µm buffered design recommended for termination to ST and SC connectors
- 600 µm buffered design optimized for termination to MT-RJ and other small form factor connectors; consult manufacturer for recommended overall diameter
- Ideal for patch cords, interconnections, and short runs
- Easy to strip and terminate
- Lightweight, flexible aramid yarns enhance strength
- Extremely flexible for easy handling

## Options

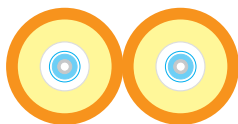
- Cables with improved attenuation available
- Low smoke zero halogen available
- Standard colors are yellow for singlemode, orange for multimode and teal for 10 Gigabit other colors are available



1-fiber Interconnect



2-fiber Interconnect



2-fiber Zip Cord

Diagram scale approx. 5:1

## 62.5/125 µm Multimode Interconnect (Riser)

(UL) OFNR c(UL)us FT4

HITACHI PART NO.	FIBER COUNT	CABLE O.D.		MAXIMUM LOAD		OPERATION		CABLE WEIGHT		
		in.	mm	INSTALL lbs-f	N	lbs-f	N	lbs/1000ft	kg/1000m	
<b>✓ 62.5/125 µm Multimode (62.5/125/250/900)</b>										
60001-1	1	.114	2.9	96	427	48	213	4.9	7.3	
60037-1	1	.094	2.4	96	427	48	213	4.2	6.3	
60038-1	1	.083	2.1	48	213	24	106	3.2	4.8	
<b>✓ 60425-1</b>										
60425-1	1	.063	1.6	48	213	24	106	1.8	2.7	
60514-2	2	.190	4.8	128	569	64	284	11.5	17.1	
60001-2	2	.114	2.9	96	427	48	213	5.7	8.5	
61512-2	2	.098	2.5	96	427	48	213	4.0	5.9	
60005-2	zip	.113 x.240	2.9 x 6.1	128	569	64	284	11.5	17.1	
<b>✓ 62.5/125 µm StratusClear™ Multimode (62.5/125/250/900)</b>										
60426-1	1	.114	2.9	96	427	48	213	4.9	7.3	
60427-1	1	.094	2.4	96	427	48	213	4.2	6.3	
60428-1	1	.083	2.1	48	213	24	106	3.2	4.8	
<b>✓ 60429-1</b>										
60429-1	1	.063	1.6	48	213	24	106	1.8	2.7	
60326-2	2	.190	4.8	128	569	64	284	11.5	17.1	
60426-2	2	.114	2.9	96	427	48	213	5.7	8.5	
61513-2	2	.098	2.5	96	427	48	213	4.0	5.9	
60324-2	zip	.113 x.240	2.9 x 6.1	128	569	64	284	11.5	17.1	
<b>✓ 62.5/125 µm Multimode (62.5/125/250/600) *Special Applications</b>										
60409-1	1	.114	2.9	96	427	48	213	4.6	6.9	
60410-1	1	.094	2.4	96	427	48	213	3.9	5.8	
60411-1	1	.083	2.1	48	213	24	106	2.8	4.2	
<b>✓ 60412-1</b>										
60412-1	1	.063	1.6	48	213	24	106	1.5	2.2	
60508-2	2	.190	4.8	128	569	64	284	10.8	16.1	
60409-2	2	.114	2.9	96	427	48	213	5.0	7.5	
60410-2	2	.094	2.4	96	427	48	213	3.2	4.8	
60493-2	zip	.113 x.240	2.9 x 6.1	128	569	64	284	10.9	16.2	
<b>✓ 62.5/125 µm StratusClear™ Multimode (62.5/125/250/600) *Special Applications</b>										
60413-1	1	.114	2.9	96	427	48	213	4.6	6.9	
60414-1	1	.094	2.4	96	427	48	213	3.9	5.8	
60415-1	1	.083	2.1	48	213	24	106	2.8	4.2	
<b>✓ 60416-1</b>										
60416-1	1	.063	1.6	48	213	24	106	1.5	2.2	
60509-2	2	.190	4.8	128	569	64	284	10.8	16.1	
60413-2	2	.114	2.9	96	427	48	213	5.0	7.5	
60414-2	2	.094	2.4	96	427	48	213	3.2	4.8	
60495-2	zip	.113 x.240	2.9 x 6.1	128	569	64	284	10.9	16.2	

## Optical Specifications

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

	62.5/125 µm MULTIMODE	STRATUSCLEAR 62.5/125 µm MULTIMODE
MAXIMUM ATTENUATION	≤ 3.5 dB/km at 850 nm ≤ 1.0 dB/km at 1300 nm	≤ 3.25 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 at 1300 nm	385 MHz•km at 850 nm n/s at 1300 nm
GIGABIT ETHERNET SUPPORT DISTANCE	300 m at 850 nm 550 m at 1300 nm	500 m at 850 nm 1,000 m at 1300 nm

HCM reserves the right to revise any specifications.

# 62.5/125 $\mu\text{m}$ and StratusClear™ Multimode Interconnect

Indoor

## 62.5/125 $\mu\text{m}$ Multimode Interconnect (Plenum)

(UL) OFNP c(UL)us FT6

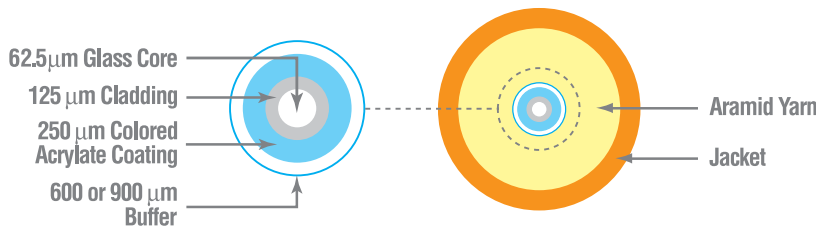
HITACHI PART NO.	FIBER COUNT	CABLE O.D.		MAXIMUM LOAD INSTALL		OPERATION		CABLE WEIGHT		
		in.	mm	lbs-f	N	lbs-f	N	lbs/1000 ft	kg/1000m	
<b>✓ 62.5/125 <math>\mu\text{m}</math> Multimode (62.5/125/250/900)</b>										
60042-1	1	.114	2.9	96	427	48	213	5.6	8.3	
60430-1	1	.094	2.4	96	427	48	213	4.7	7.0	
60431-1	1	.083	2.1	48	213	24	106	3.6	5.4	
✓ 60432-1	1	.063	1.6	48	213	24	106	2.0	3.0	
60024-2	2	.190	4.8	128	569	64	284	13.1	19.5	
60042-2	2	.114	2.9	96	427	48	213	6.4	9.5	
61461-2	2	.098	2.5	96	427	48	213	4.3	6.3	
60023-2	zip	.113 x.235 2.9 x 6.0		128	569	64	284	13.2	19.7	
<b>✓ 62.5/125 <math>\mu\text{m}</math> StratusClear™ Multimode (62.5/125/250/900)</b>										
60433-1	1	.114	2.9	96	427	48	213	5.6	8.3	
60434-1	1	.094	2.4	96	427	48	213	4.7	7.0	
60435-1	1	.083	2.1	48	213	24	106	3.6	5.4	
✓ 60436-1	1	.063	1.6	48	213	24	106	2.0	3.0	
60332-2	2	.190	4.8	128	569	64	284	13.1	19.5	
60433-2	2	.114	2.9	96	427	48	213	6.4	9.5	
61514-2	2	.098	2.5	96	427	48	213	4.3	6.3	
60330-2	zip	.113 x.235 2.9 x 6.0		128	569	64	284	13.2	19.7	
<b>✓ 62.5/125 <math>\mu\text{m}</math> Multimode (62.5/125/250/600) *Special Applications</b>										
60417-1	1	.114	2.9	96	427	48	213	5.2	7.7	
60418-1	1	.094	2.4	96	427	48	213	4.3	6.4	
60419-1	1	.083	2.1	48	213	24	106	3.2	4.8	
✓ 60420-1	1	.063	1.6	48	213	24	106	1.6	2.4	
60510-2	2	.190	4.8	128	569	64	284	12.3	18.3	
60417-2	2	.114	2.9	96	427	48	213	5.7	8.5	
60418-2	2	.094	2.4	96	427	48	213	3.5	5.2	
60494-2	zip	.113 x.235 2.9 x 6.0		128	569	64	284	12.4	18.5	
<b>✓ 62.5/125 <math>\mu\text{m}</math> StratusClear™ Multimode (62.5/125/250/600) *Special Applications</b>										
60421-1	1	.114	2.9	96	427	48	213	5.2	7.7	
60422-1	1	.094	2.4	96	427	48	213	4.3	6.4	
60423-1	1	.083	2.1	48	213	24	106	3.2	4.8	
✓ 60424-1	1	.063	1.6	48	213	24	106	1.6	2.4	
60511-2	2	.190	4.8	128	569	64	284	12.3	18.3	
60421-2	2	.114	2.9	96	427	48	213	5.7	8.5	
60422-2	2	.094	2.4	96	427	48	213	3.5	5.2	
60496-2	zip	.113 x.235 2.9 x 6.0		128	569	64	284	12.4	18.5	

## Mechanical Specifications

- Bend radius, no load = 10x cable overall diameter
- Bend radius, load = 15x cable overall diameter



## Features



DIELECTRIC MATERIALS

Overall Jacket

RISER

Flame-retardant thermoplastic

PLENUM

Low-smoke, flame-retardant thermoplastic



# Interconnect

1-fiber, 2-fiber and zip

## Product Highlights

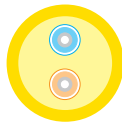
- ✓ Most commonly specified diameters denoted by checkmarks in tables
- RoHS compliant
- 900  $\mu\text{m}$  buffered design recommended for termination to ST and SC connectors
- 600  $\mu\text{m}$  buffered design optimized for termination to MT-RJ and other small form factor connectors; consult manufacturer for recommended overall diameter
- Ideal for patch cords, interconnections, and short runs
- Easy to strip and terminate
- Lightweight, flexible aramid yarns enhance strength
- Extremely flexible for easy handling

## Options

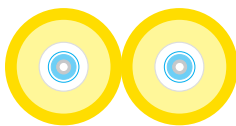
- Cables with improved attenuation available
- Low smoke zero halogen available
- Standard colors are yellow for singlemode, orange for multimode and teal for 10 Gigabit other colors are available



1-fiber Interconnect



2-fiber Interconnect



2-fiber Zip Cord

Diagram scale approx. 5:1

## 8.3/125 $\mu\text{m}$ Singlemode Interconnect (Riser)

(UL) OFNR c(UL)us FT4

HITACHI PART NO.	FIBER COUNT	CABLE O.D.		MAXIMUM LOAD		OPERATION		CABLE WEIGHT		
		in.	mm	INSTALL lbs-f	N	lbs-f	N	lbs/1000ft	kg/1000m	
<b>✓ 8.3/125 <math>\mu\text{m}</math> Singlemode (8.3/125/250/900)</b>										
60040-1	1	.114	2.9	96	427	48	213	4.9	7.2	
60039-1	1	.094	2.4	96	427	48	213	4.2	6.2	
60010-1	1	.083	2.1	48	213	24	106	3.2	4.7	
<b>✓ 60489-1</b>										
60012-2	2	.190	4.8	128	569	64	284	11.5	17.1	
60040-2	2	.114	2.9	96	427	48	213	5.7	8.4	
61515-2	2	.098	2.5	96	427	48	213	4.0	5.9	
60011-2	zip	.113 x.240	2.9 x 6.1	128	569	64	284	11.5	17.1	
<b>✓ 8.3/125 <math>\mu\text{m}</math> Singlemode (8.3/125/250/600) *Special Applications</b>										
60480-1	1	.114	2.9	96	427	48	213	4.9	7.2	
60481-1	1	.094	2.4	96	427	48	213	4.2	6.2	
60482-1	1	.083	2.1	48	213	24	106	3.2	4.7	
<b>✓ 60483-1</b>										
60479-2	2	.190	4.8	128	569	64	284	11.5	17.1	
60480-2	2	.114	2.9	96	427	48	213	5.7	8.4	
60481-2	2	.094	2.4	96	427	48	213	4.0	5.9	
60503-2	zip	.113 x.240	2.9 x 6.1	128	569	64	284	11.5	17.1	

## Optical Specifications

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

	8.3/125 $\mu\text{m}$ SINGLEMODE
MAXIMUM ATTENUATION	$\leq 0.50$ dB/km at 1310 nm $\leq 0.50$ dB/km at 1550 nm
GIGABIT ETHERNET SUPPORT DISTANCE	5000 m at 1550 nm

HCM reserves the right to revise any specifications.

# Singlemode Interconnect

Indoor

## 8.3/125 μm Singlemode Interconnect (Plenum)

(UL) OFNP c(UL)us FT6

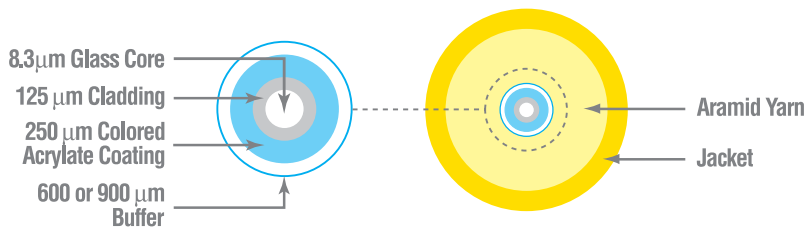
HITACHI PART NO.	FIBER COUNT	CABLE O.D.		MAXIMUM LOAD INSTALL		OPERATION		CABLE WEIGHT	
		in.	mm	lbs·f	N	lbs·f	N	lbs/1000 ft	kg/1000m
<b>✓ 8.3/125 μm Singlemode (8.3/125/250/900)</b>									
60044-1	1	.114	2.9	96	427	48	213	5.6	8.3
60490-1	1	.094	2.4	96	427	48	213	4.7	7.0
60491-1	1	.083	2.1	48	213	24	106	3.6	5.4
<b>✓ 60492-1</b>	<b>1</b>	<b>.063</b>	<b>1.6</b>	<b>48</b>	<b>213</b>	<b>24</b>	<b>106</b>	<b>2.0</b>	<b>3.0</b>
60031-2	2	.190	4.8	128	569	64	284	13.1	19.5
60044-2	2	.114	2.9	96	427	48	213	6.4	9.5
61493-2	2	.098	2.5	96	427	48	213	4.3	6.3
60030-2	zip	.113 x.235	2.9 x 6.0	128	569	64	284	13.2	19.7
<b>✓ 8.3/125 μm Singlemode (8.3/125/250/600) *Special Applications</b>									
60485-1	1	.114	2.9	96	427	48	213	5.2	7.7
60486-1	1	.094	2.4	96	427	48	213	4.3	6.4
60487-1	1	.083	2.1	48	213	24	106	3.2	4.8
<b>✓ 60488-1</b>	<b>1</b>	<b>.063</b>	<b>1.6</b>	<b>48</b>	<b>213</b>	<b>24</b>	<b>106</b>	<b>1.6</b>	<b>2.4</b>
60484-2	2	.190	4.8	128	569	64	284	12.3	18.3
60485-2	2	.114	2.9	96	427	48	213	5.7	8.5
60486-2	2	.094	2.4	96	427	48	213	3.5	5.2
60504-2	zip	.113 x.235	2.9 x 6.0	128	569	64	284	12.4	18.5

## Mechanical Specifications

- Bend radius, no load = 10x cable overall diameter
- Bend radius, load = 15x cable overall diameter



## Features



### DIELECTRIC MATERIALS

Overall Jacket

### RISER

Flame-retardant thermoplastic

### PLENUM

Low-smoke, flame-retardant thermoplastic



# SingleUnit 2 through 24 fibers

## Product Highlights

- RoHS compliant
- 900 µm buffered design recommended for termination to ST and SC connectors
- 600 µm buffered design optimized for termination to MT-RJ and other small form factor connectors; consult manufacturer for recommended overall diameter
- Each fiber is color coded for easy identification
- Ideal intra-building cable solution
- Flexible and easy to handle
- Lightweight, flexible aramid yarns enhance strength

## Options

- Cables with improved attenuation available
- Low smoke zero halogen available
- Cables with extended 10 Gigabit Ethernet support distances available
- Standard colors are yellow for singlemode, orange for multimode and teal for 10 Gigabit other colors are available



2-fiber



4-fiber



6-fiber



8-fiber



10-fiber



12-fiber

Diagram scale approx. 2:1

## 50/125 µm Multimode SingleUnit (Riser)

(UL) OFNR c(UL)us FT4

HITACHI PART NO.	FIBER COUNT	CABLE O.D.		MAXIMUM LOAD		OPERATION		CABLE WEIGHT		
		in.	mm	INSTALL lbs·f	N	lbs·f	N	lbs/1000ft	kg/1000m	
<b>50/125 µm Multimode (50/125/250/900)</b>										
60063-2	2	.190	4.8	128	569	64	284	11.5	17.1	
60516-4	4	.190	4.8	128	569	64	284	13.0	19.4	
60516-6	6	.190	4.8	128	569	64	284	14.5	21.6	
60516-8	8	.230	5.8	160	712	80	356	18.5	27.6	
60516-10	10	.230	5.8	160	712	80	356	20.0	29.8	
60516-12	12	.230	5.8	160	712	80	356	21.5	32.0	
60516-24	24	.350	8.8	288	1282	144	641	52.4	78.1	
<b>50/125 µm StratusClear™ Multimode (50/125/250/900)</b>										
60463-2	2	.190	4.8	128	569	64	284	11.5	17.1	
60520-4	4	.190	4.8	128	569	64	284	13.0	19.4	
60520-6	6	.190	4.8	128	569	64	284	14.5	21.6	
60520-8	8	.230	5.8	160	712	80	356	18.5	27.6	
60520-10	10	.230	5.8	160	712	80	356	20.0	29.8	
60520-12	12	.230	5.8	160	712	80	356	21.5	32.0	
60520-24	24	.350	8.8	288	1282	144	641	52.4	78.1	
<b>50/125 µm Multimode (50/125/250/600) *Special Applications</b>										
60442-2	2	.190	4.8	128	569	64	284	10.8	16.1	
60543-4	4	.190	4.8	128	569	64	284	11.5	17.1	
60543-6	6	.190	4.8	128	569	64	284	12.2	18.2	
60543-8	8	.230	5.8	160	712	80	356	15.5	23.1	
60543-10	10	.230	5.8	160	712	80	356	16.2	24.1	
60543-12	12	.230	5.8	160	712	80	356	17.0	25.3	
60543-24	24	.350	8.8	288	1282	144	641	52.4	78.1	
<b>50/125 µm StratusClear™ Multimode (50/125/250/600) *Special Applications</b>										
60447-2	2	.190	4.8	128	569	64	284	10.8	16.1	
60546-4	4	.190	4.8	128	569	64	284	11.5	17.1	
60546-6	6	.190	4.8	128	569	64	284	12.2	18.2	
60546-8	8	.230	5.8	160	712	80	356	15.5	23.1	
60546-10	10	.230	5.8	160	712	80	356	16.2	24.1	
60546-12	12	.230	5.8	160	712	80	356	17.0	25.3	
60546-24	24	.350	8.8	288	1282	144	641	52.4	78.1	

## Optical Specifications

TIA/EIA-568-B.3/B.3-1

ISO/IEC 11801, 2nd edition

Bellcore GR-409-CORE

	50/125 µm MULTIMODE	STRATUSCLEAR 50/125 µm MULTIMODE
MAXIMUM ATTENUATION	≤ 3.5 dB/km at 850 nm ≤ 1.0 dB/km at 1300 nm	≤ 3.25 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	2000 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/a n/a	300 m at 850 nm n/a

HCM reserves the right to revise any specifications.