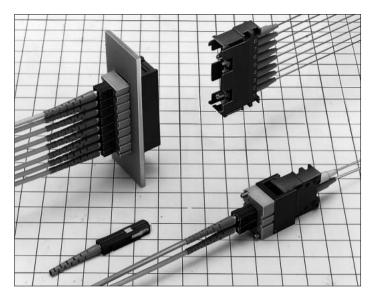
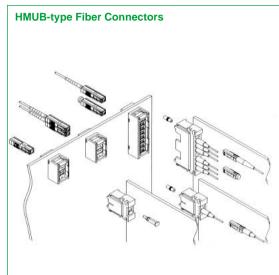
M

MU-type High-Density Plug-in Optical Fiber Connectors

HMU Series





■Features

1. MU-type Correspondence

These connectors can be used with the NTT, MU-type optical fiber connectors. JIS C5983 (F14 optical fiber connectors) IEC 61754-6

2. Plug-in Housing

The plug-in housing has a self-holding mechanism which does not exert a pushing force on the back panel when in the coupled condition.

3. Back Panel Side Optical Terminals

Insertion and withdrawal of back panel side optical terminals is even possible when the back panel and the package are in the coupled condition.

4. Wide Variation of Connectors for Junction Applications

Type No. of Gangs	1	2	3
Board mounting	0	0	0
Junction panel mounting	0	0	0

5. Optical Terminals

The optical terminals (optical connectors) are ultra-miniature optical fiber connectors that use the same fastening mechanism as the SC-type optical fiber connectors (JIS C 5973).

■Applications

Optical terminal equipment, optical relay racks, measuring instruments, etc.

■Product Standards

Rating	Operating temperature range	-25℃~70℃	Storage temperature range	-25℃~70℃
--------	-----------------------------	----------	---------------------------	----------

	Item		Test Method (JIS C 5961)	Standard	
	Incomtion loss	(SM)	1,300nm wavelength (LD)	0.5 dB or less (PC, AdPC)	
Optical	Insertion loss (GI)		1,300nm wavelength (LED)	0.3 dB or less (PC)	
Performance	Reflection	(SM)	1 200nm wayalanath (LD)	22 dB or greater (PC) 40 dB (AdPC)	
	attenuation (GI)		1,300nm wavelength (LD)	22 dB or greater (PC)	
	Coupling force and		Measure when connectors are coupled and separated in the direction of the axis.	Simplex plugs Coupling force 20N or less Separation force 20N or less Duplex plugs Coupling force 30N or less Separation force 30N or less	
	Split sleeve holding force of the sleeve holder and the adapter		Zirconia gauge of ϕ 1.249±0.0005 mm	Zirconia 1~2.5N	
Mechanical Performance	/ Dulling in direction of		70 N of pulling force between connector and cable for one minute	Insertion loss fluctuation after test: 0.2dB or less No irregularity in clamp section or cable	
	Repetitive operation		200 times (Plug-in housing) 500 times (Plug)		
	Vibration resistance		Vibration range of 10 to 55 Hz Test in 3 directions, 2 hours each		
	Shock resistance		Acceleration of 981 m/s2 3 axes, both directions, 5 times each (Total of 15 times)	Insertion loss fluctuation after test: 0.2 dB or less No damage, cracks, or part looseness	
	Humidity resistance (Temperature and humidity cycle)		Temperature −10°C to 65°C, humidity 90 to 96% 10 cycles	2) The damage, stable, or participation	
Environmental	Temperature cyc	le	Temperature – 25° to 70° 100 cycles		
performance	Heat resistance		Leave for 960 hours at a temperature of $85^\circ\!$		
	Cold resistance		Leave for 960 hours at a temperature of $-25^\circ\!$		
	Salt fog		Left in a 5% concentration of salt fog for 48 hours	No conspicuous corrosion	

■Materials

Component	Material	Notes
Simplex plug casing	Polybutylene terephthalate	
Coil spring	Piano wire	
Ferrule	Zirconia	
Simplex adapter casing	Polyphenylene sulfide	
Duplex adapter casing	Polyphenylene sulfide	NTT, MU corresponding item
8-ganged adapter casing	ed adapter casing Polyphenylene sulfide	
Plug-in connector casing	Polyphenylene sulfide	
Split sleeve	Zirconia or Copper alloy	

■Types

	Types	No. of gangs	Cable Diameter	Notes	Polishing	Product Number
	71	0 0			PC	HMUA-P2-H1
			<i>φ</i> 2		AdPC	HMUA-P2-H2
		1		With knob	PC	HMUA-P1-H1
	DI		<i>φ</i> 0.9		AdPC	HMUA-P1-H2
	Plug housing		/0		PC	HMUA-2P2-H1
			φ2	NA/isha kanah	AdPC	HMUA-2P2-H2
		2	10.0	With knob	PC	HMUA-2P1-H1
Back			<i>φ</i> 0.9		AdPC	HMUA-2P1-H2
Panel	Receptacle attachment	1	_		_	HMUA-RA-1
Side	Terminator	· ·	_	With knob	_	HMUA-TM-1
Olde		2	_	Dookogo sido	_	HMUB-L2PA-1
		8	_	Package side	_	HMUB-L8PA-1
	Connector housing	2	_	For back panel side 2.4mm panel		HMUB-L2HA-1
		2	_	For 3.2mm panel		HMUB-L2HB-1
		8	_	1 1 1		HMUB-L8HA-1
			_	For 3.2mm panel		HMUB-L8HB-1
	Sleeve holder	1	_			HMUB-SH-1
	Ferrule	I	_	Small-diameter zirconia ferrule		HMUA-F3-A []
			φ2	- Without knob	PC	HMUAJ-P2-H1
Package	Plug housing				AdPC	HMUAJ-P2-H2
side	Flug flousing	1	<i>φ</i> 0.9		PC	HMUAJ-P1-H1
Side			φυ.9		AdPC	HMUAJ-P1-H2
	Terminator		_	Without knob	_	HMUAJ-TM-1
			_	For panel mounting	_	HMUA-A-1
		1	_	For screw mounting	_	HMUA-AS-1
			_	For board mounting	_	HMUA-AH-1
			_	For panel mounting	_	HMUA-2A-1
	Adapter	2	_	For screw mounting	_	HMUA-2AS-1
			_	For board mounting	_	HMUA-2AH-1
			_	For panel mounting	_	HMUA-8A-1
			_	For screw mounting	_	HMUA-8AS-1
			_	For board mounting	-	HMUA-8AH-1

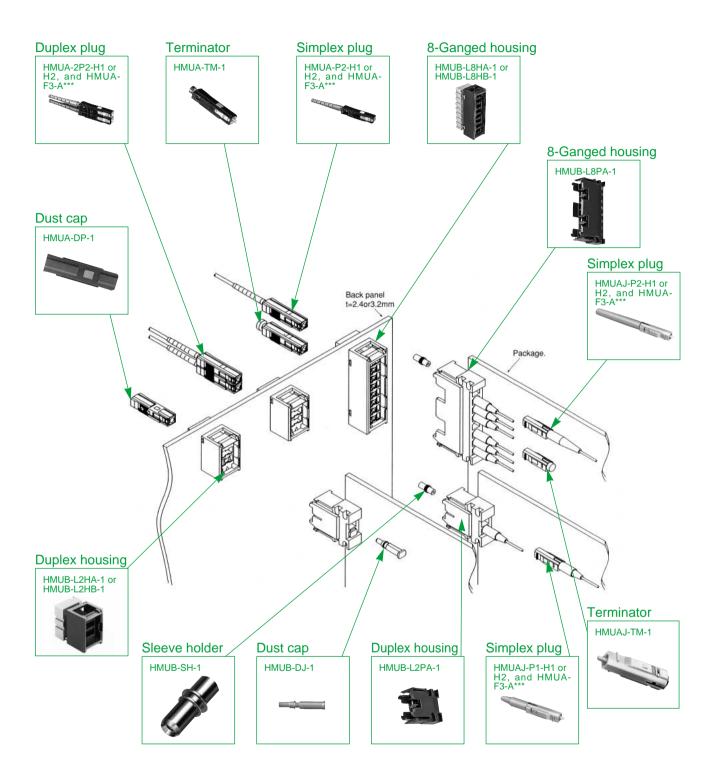
■Usage Precautions

Insertion and Withdrawal of Plugs by Tool

The various tools should be used properly according to the Application, Suitable Adapter and Connector Housing, and Suitable Plug as listed in the table below. These connectors are mounted in high density and require a reliable operation to be performed with a tool. Instruction manuals are available. Please request them.

Application	Applicable Adapter and Connector Housing	Applicable Plug (Plug housing name listed)	Tool Product Number
Insertion and withdrawal of plugs	HMUA-A-1,2A-1,8A-1,AS-1, 2AS-1,8AS-1	HMUA-P1-H1 · 2,2P1-H1 · 2 HMUA-P2-H1 · 2,2P2-H1 · 2	HMUA-TP-1
	HMUB-L2HA-1,L2HB-1, L8HA-1,L8HB-1	HMUA-P1-H1 · 2,2P1-H1 · 2 HMUA-P2-H1 · 2,2P2-H1 · 2	HMUB-TP-1
Plug extraction	HMUB-L2PA-1,L8PA-1	HMUAJ-P1-H1 · 2,P2-H1 · 2	HMUB-TJ-1
Insertion and withdrawal of sleeve holders	HMUB-L2PA-1,L8PA-1	HMUAJ-P1-H1 · 2,P2-H1 · 2	HMUB-TS-1
Lastina of alices		HMUA-P2-H1 · 2,2P2-H1 · 2	HMUA-TK-1
Locking of plugs		HMUAJ-P2-H1 · 2	HMUA-TK-2

■Functions Diagram

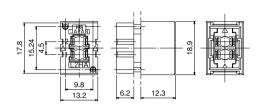


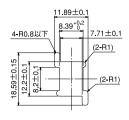
■Back Panel Side Connector Housing

Ouplex Back Panel Side Connector Housing

● Mounting Hole Dimensions Diagram







Product Number	HRS No.	Mounting Panel Thickness
HMUB-L2HA-1	CL710-0017-8	2.4mm
HMUB-L2HB-1	CL710-0018-0	3.2mm

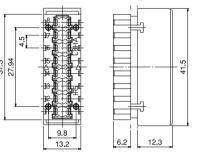
(NOTE 1) This duplex back panel side connector housing should be used in conjunction with a simplex or duplex plug housing furnished with a knob (for 2 cable, and for core wire).

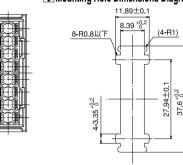
(NOTE 2) The recommened clamp torque to be 3.1N

OB-Ganged Back Panel Side Connector Housing

● Mounting Hole Dimensions Diagram







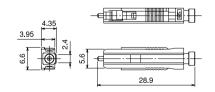
Product Number	Product Number	Mounting Panel Thickness
HMUB-L8HA-1	CL710-0019-3	2.4mm
HMUB-L8HB-1	CL710-0020-2	3.2mm

(NOTE 1) This 8-ganged back panel side connector housing should be used in conjunction with a simplex or duplex plug housing furnished with a knob (for _2 cable, and for core wire).

(NOTE 2) The recommened clamp torque to be 3.1N

■Terminator (Back Panel Side)





Product Number	HRS No.	Reflection Attenuation	Applicable Optical Fiber
HMUA-TM-P1	CL821-0007-6	≧40dB	SM-9.5/125

Specifications

Item	Standard Value
Rated input power	≦30mW
Reflection attenuation	≥40dB(48dB TYP.)
Suitable wavelength band	1.3µm,1.55µm
Operating temperature	-25℃~70℃
Humidity	≦95%
Storage temperature	-40℃~80℃

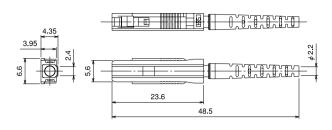
(NOTE) See page 87 in detail



■Back Panel Side Plug Housing

•Plug Housing for Simplex ϕ 2 Cable With Knob

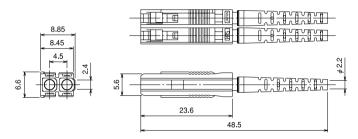




Product Number	HRS No.	Applicable Cable Diameter	Hood Color	Polishing Specification
HMUA-P2-H1	CL710-0047-9	<i>ϕ</i> 2mm	Blue	For PC polishing
HMUA-P2-H2	CL710-0001-8	<i>ϕ</i> 2mm	Light purple	For AdPC polishing

•Plug Housing for Duplex ϕ 2 Cable With Knob

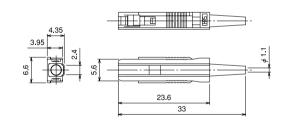




Product Number	HRS No.	Applicable Cable Diameter	Hood Color	Polishing Specification
HMUA-2P2-H1	CL710-0048-1	<i>φ</i> 2mm	Blue	For PC polishing
HMUA-2P2-H2	CL710-0002-0	<i>φ</i> 2mm	Light purple	For AdPC polishing

●Plug Housing for Simplex 0.9 Cable With Knob



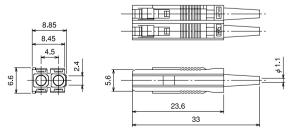


Product Number	HRS No.	Applicable Cable Diameter	Hood Color	Polishing Specification
HMUA-P1-H1	CL710-0068-9	<i>ϕ</i> 0.9mm	Blue	For PC polishing
HMUA-P1-H2	CL710-0069-1	<i>ϕ</i> 0.9mm	Light purple	For AdPC polishing

NOTE: Full length 28mm product also available.

●Plug Housing for Duplex 0.9 Cable With Knob





Product Number	HRS No.	Applicable Cable Diameter	Hood Color	Polishing Specification
HMUA-2P1-H1	CL710-0070-0	<i>ϕ</i> 0.9mm	Blue	For PC polishing
HMUA-2P1-H2	CL710-0071-3	<i>ϕ</i> 0.9mm	Light purple	For AdPC polishing

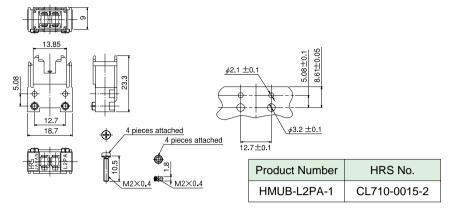
NOTE: Full length 28mm product also available.

■Package Side Connector Housing

Duplex Package Side Connector Housing

Mounting Hole Dimensions Diagram





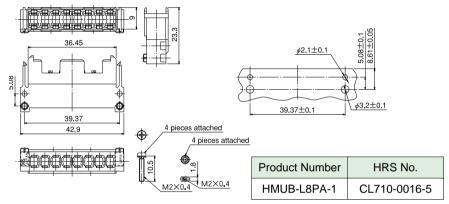
(NOTE 1) This duplex package side connector housing should be used in conjunction with a simplex sleeve holder and simplex plug housing without a knob (for ϕ 2 cable, and for core wire).

(NOTE 2) The recommended clamp torque to be 14.9N

●8-Ganged Package Side Connector Housing

● Mounting Hole Dimensions Diagram



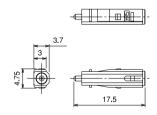


NOTE: This 8-ganged package side connector housing should be used in conjunction with a simplex sleeve holder and simplex plug housing without a knob (for ϕ 2 cable, and for core wire).

(NOTE 2) The recommended clamp torque to be 14.9N

■Terminator (Package Side)





Product Number	HRS No.	Reflection Attenuation	Suitable Optical Fiber
HMUAJ-TM-P1	CL821-0008-9	≧40dB	SM-9.5/125

Specifications

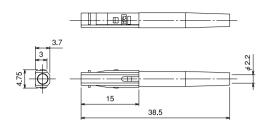
Item	Standard Value
Rated input power	≦30mW
Reflection attenuation	≧40dB(48dB TYP.)
Suitable wavelength band	1.3µm,1.55µm
Operating temperature	- 25℃~70℃
Humidity	≦95%
Storage temperature	- 40℃~80℃

(NOTE) See page 87 in detail

■Package Side Connector Housing

•Plug Housing for Simplex ϕ 2 Cable Without Knob

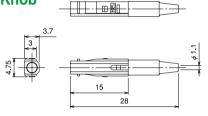




Product Number	HRS No.	Applicable Cable Diameter	Hood Color	Polishing Specification
HMUAJ-P2-H1	CL710-0050-3	<i>φ</i> 2mm	Blue	For PC polishing
HMUAJ-P2-H2	CL710-0004-6	<i>φ</i> 2mm	Light purple	For AdPC polishing

• Plug Housing for Simplex ϕ 0.9 Cable Without Knob



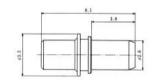


Product Number	HRS No.	Applicable Cable Diameter	Hood Color	Polishing Specification
HMUAJ-P1-H1	CL710-0049-4	<i>ϕ</i> 0.9mm	Blue	For PC polishing
HMUAJ-P1-H2	CL710-0003-3	<i>ϕ</i> 0.9mm	Light purple	For AdPC polishing

NOTE: A jig is available for measuring the optical characteristics of a knobless plug through the use of an adapter. (HRS No. and Product Number: CL710-0085-8, HMUA-RH-1)

■Simplex Sleeve Holder





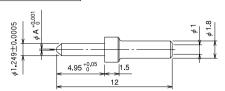
Product Number	HRS No.	
HMUB-SH-1	CL710-0021-5	

NOTE: This sleeve holder should be used in conjunction with a duplex and 8-ganged package side connector housing and a simplex _2cable/simplex _0.9 cable plug housing without a knob. Also note that assembly should be performed using a sleeve holder insertion and withdrawal tool (HMUB-TS-1), having the gold plated portion facing the direction of the package side connector housing.

■Ferrule







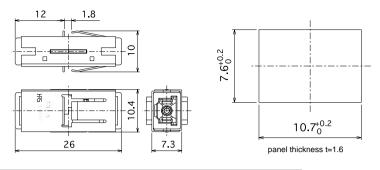
Product Number	HRS No.	Dimension A	Applicable Optical Fiber
HMUA-F3-A123	CL710-0022-8	0.123	
HMUA-F3-A124	CL710-0023-0	0.124	
HMUA-F3-A125	CL710-0024-3	0.125	SM-9.5/125
HMUA-F3-A126	CL710-0025-6	0.126	GI-50/125
HMUA-F3-A127	CL710-0026-9	0.127	
HMUA-F3-A128	CL710-0027-1	0.128	

■Adapters

Simplex Adapter Panel Mounting Type

● Mounting Hole Dimensions Diagram



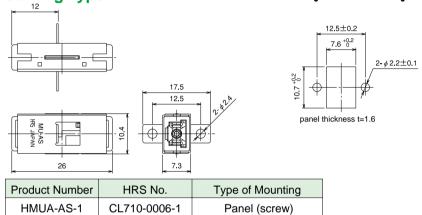


Product Number	HRS No.	Type of Mounting
HMUA-A-1	CL710-0005-9	Panel (1.6mm thick)

●Simplex Adapter Screw Mounting Type

● Mounting Hole Dimensions Diagram

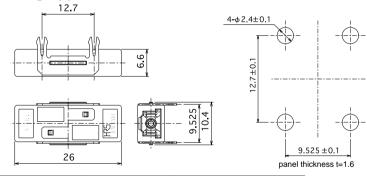




●Simplex Adapter Board Mounting Type

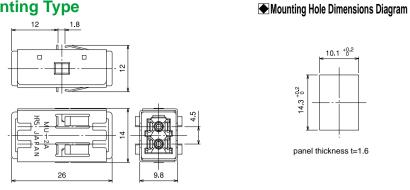
● Mounting Hole Dimensions Diagram





Product Number	HRS No.	Type of Mounting
HMUA-AH-1	CL710-0007-4	Board (1.6mm thick)

• Duplex Adapter Panel Mounting Type

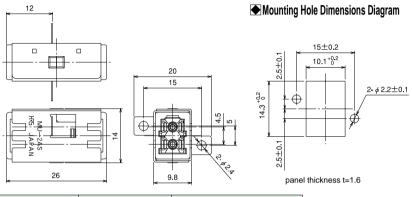


		10.1	+0.2	
14.3 0.2	_			
pan	el th	nickne	ess t=	1.6

Product Number	HRS No.	Type of Mounting
HMUA-2A-1	CL710-0008-7	Panel (1.6mm thick)

●Duplex Adapter Screw Mounting Type

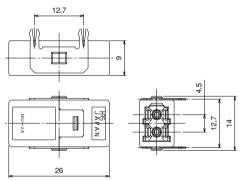




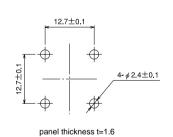
Product Number HRS No.		HRS No.	Type of Mounting
	HMUA-2AS-1	CL710-0009-0	Panel (screw)

Duplex Adapter Board Mounting Type





● Mounting Hole Dimensions Diagram

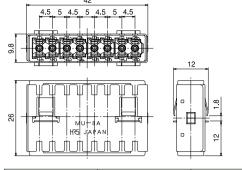


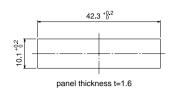
Product Number	HRS No.	Type of Mounting
HMUA-2AH-1	CL710-0010-9	Board (1.6mm thick)

OB-Ganged Adapter Panel Mounting Type

● Mounting Hole Dimensions Diagram



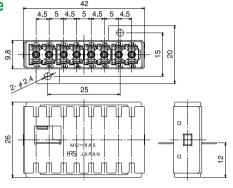




Product Number	HRS No.	Type of Mounting
HMUA-8A-1	CL710-0011-1	Panel (1.6mm thick)

●8-Ganged Adapter Screw Mounting Type





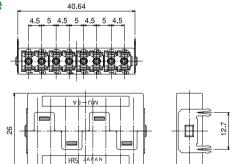
	42.3 +0.2
	25±0.2
15±0.2 10.1+0.2	•
ļ - i _	2- \phi 2.2 \pm 0.1
	panel thickness t=1.6

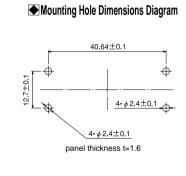
● Mounting Hole Dimensions Diagram

Product Number	HRS No.	Type of Mounting
HMUA-8AS-1	CL710-0012-4	Panel (screw)

●8-Ganged Adapter Board Mounting Type



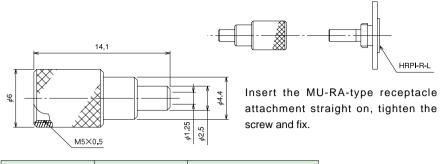




Product Number	HRS No.	Type of Mounting
HMUA-8AH-1	CL710-0013-7	Board (1.6mm thick)

■Simplex Receptacle Attachment





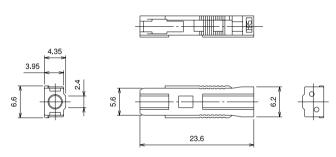
Product Number	HRS No.	Notes	
HMUA-RA-1	CL710-0014-0	For measurement of optical characteristics	

NOTE: This receptacle attachment is used with HRPI-R-L as a set and attached to a measuring instrument such as a sensor for measurements of such as the optical power.

■Dust Caps

Plug Dust Cap (Back Panel Side)

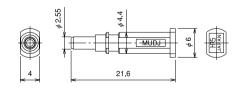




Product Number	HRS No.	Applicable Adapter and Connector Housing
HMUA-DP-1	CL710-0059-8	HMUA-A-1,AS-1,AH-1
		HMUA-2A-1,2AS-1,2AH-1
		HMUA-8A-1,8AS-1,8AH-1
		HMUB-L2HA-1,L2HB-1
		HMUB-L8HA-1,L8HB-1

Plug Dust Cap (Back Panel Side)

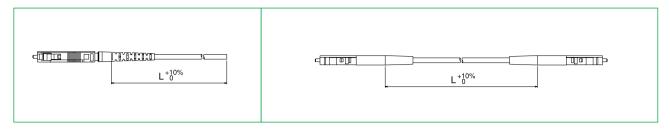




Product Number	HRS No.	Applicable Connector Housing
HMUB-DJ-1	CL710-0060-7	HMUB-L2PA-1
		HMUB-L8PA-1

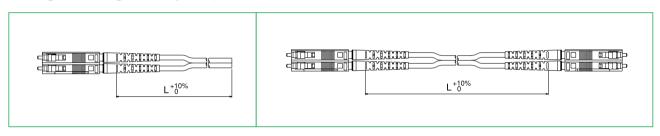
■Connectors with Cable Attached

•Plug Housing for Simplex ϕ 2 Cable With Knob



Product Number	HRS No.	Notes	Applicable Optical Fiber	Type of Polishing	Cable Diameter
HMUA-SP1-F3Q-L	_	One end	SM-9.5/125	PC polishing	
HMUA-SP2-F3Q-L	_	Both ends		PC polistiling	
HMUA-ASP1-F3Q-L	CL710-0028-4	One end	31VI-9.3/123	AdPC polishing	
HMUA-ASP2-F3Q-L	CL710-0029-7	Both ends		Aure polishing	/0
HMUA-SP1-F3P-L	CL710-0030-6	One end		PC polishing	- <i>φ</i> 2mm
HMUA-SP2-F3P-L	CL710-0031-9	Both ends	GI-50/125	PC polistiling	
HMUA-ASP1-F3P-L	CL710-0051-6	One end	GI-50/125	AdPC polishing	
HMUA-ASP2-F3P-L	CL710-0052-9	Both ends		Auro polistiling	

•Plug Housing for Duplex ϕ 2 Cable With Knob

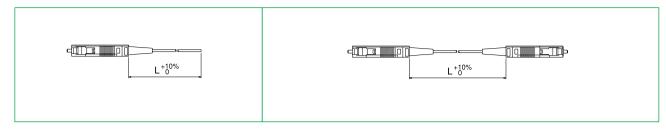


Product Number	HRS No.	Notes	Applicable Optical Fiber	Type of Polishing	Cable Diameter
HMUA-S2P1-F3QW-L		One end	SM-9.5/125	DC naliahing	
HMUA-S2P2-F3QW-L	_	Both ends		PC polishing	
HMUA-AS2P1-F3QW-L	CL710-0061-0	One end		AdDC naliabina	
HMUA-AS2P2-F3QW-L	CL710-0062-2	Both ends		AdPC polishing	/2000
HMUA-S2P1-F3PW-L	CL710-0034-7	One end		DC moliphing	- φ2mm
HMUA-S2P2-F3PW-L	CL710-0035-0	Both ends	GI-50/125	PC polishing	
HMUA-AS2P1-F3PW-L	CL710-0053-1	One end	GI-50/125	AdDC maliabing]
HMUA-AS2P2-F3PW-L	CL710-0054-4	Both ends		AdPC polishing	

(NOTE 1) The "L" within the Product Number indicates the length of the cable illustrated in the diagram. Please specify values in meter units.

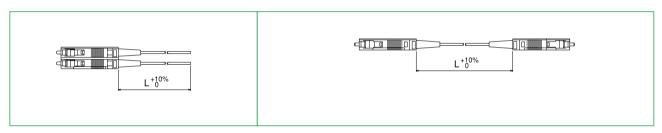
(NOTE 2) We will custom manufacture a great variety of conversion cables and products other than the aforementioned items to suit your needs.

•Plug Housing for Simplex ϕ 0.9 Cable With Knob



Product Number	HRS No.	Notes	Applicable Optical Fiber	Type of Polishing	Cable Diameter
HMUA-SP1-F3L-L	-	One end	SM-9.5/125	DO nationina	
HMUA-SP2-F3L-L	_	Both ends		PC polishing	
HMUA-ASP1-F3L-L	CL710-1001-3	One end		A -IDO li - l- i	
HMUA-ASP2-F3L-L	CL710-1002-6	Both ends		AdPC polishing	/0.055
HMUA-SP1-F3M-L	CL710-1003-9	One end	- GI-50/125	DO maliabia a	<i>φ</i> 0.9mm
HMUA-SP2-F3M-L	CL710-1004-1	Both ends		PC polishing	
HMUA-ASP1-F3M-L	CL710-1005-4	One end		AdDC maliabing	
HMUA-ASP2-F3M-L	CL710-1006-7	Both ends		AdPC polishing	

•Plug Housing for Duplex ϕ 0.9 Cable With Knob

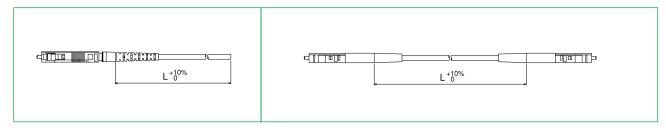


Product Number	HRS No.	Notes	Applicable Optical Fiber	Type of Polishing	Cable Diameter
HMUA-S2P1-F3L-L	_	One end		DC notiching	
HMUA-S2P2-F3L-L	_	Both ends	SM-9.5/125	PC polishing	
HMUA-AS2P1-F3L-L	CL710-1007-0	One end	SIVI-9.5/125	AdDC naliabing	
HMUA-AS2P2-F3L-L	CL710-1008-2	Both ends		AdPC polishing	40.0mm
HMUA-S2P1-F3M-L	CL710-1009-5	One end		DC notiching	<i>φ</i> 0.9mm
HMUA-S2P2-F3M-L	CL710-1010-4	Both ends	GI-50/125	PC polishing	
HMUA-AS2P1-F3M-L	CL710-1011-7	One end		AdDC maliabing]
HMUA-AS2P2-F3M-L	CL710-1012-0	Both ends		AdPC polishing	

(NOTE 1) The "L" within the Product Number indicates the length of the cable illustrated in the diagram. Please specify values in meter units.

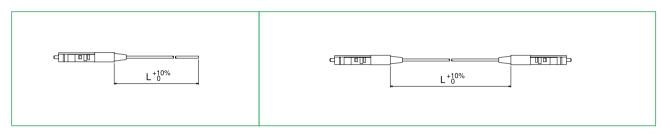
(NOTE 2) We will custom manufacture a great variety of conversion cables and products other than the aforementioned items to suit your needs.

•Plug Housing for Simplex ϕ 2 Cable Without Knob



Product Number	HRS No.	Notes	Applicable Optical Fiber	Type of Polishing	Cable Diameter
HMUJ-SP1-F3Q-L		One end		DC poliching	
HMUJ-SP2-F3Q-L	-	Both ends	SM-9.5/125	PC polishing	
HMUAJ-ASP1-F3Q-L	CL710-0040-0	One end	3101-9.5/125	AdDC naliabina	
HMUAJ-ASP2-F3Q-L	CL710-0041-2	Both ends		AdPC polishing	/2
HMUAJ-SP1-F3P-L	CL710-0042-5	One end		DC notiching	- φ2mm
HMUAJ-SP2-F3P-L	CL710-0043-8	Both ends	GI-50/125	PC polishing	
HMUAJ-ASP1-F3P-L	CL710-0057-2	One end	GI-50/125	AdDC naliabina	
HMUAJ-ASP2-F3P-L	CL710-0058-5	Both ends		AdPC polishing	

•Plug Housing for Simplex ϕ 0.9 Cable Without Knob



Product Number	HRS No.	Notes	Applicable Optical Fiber	Type of Polishing	Cable Diameter
HMUAJ-SP1-F3A3-L	_	One end		DC polishing	
HMUAJ-SP2-F3A3-L	_	Both ends	SM-9.5/125	PC polishing	
HMUAJ-ASP1-F3A3-L	CL710-0036-2	One end		AdDC naliahina	
HMUAJ-ASP2-F3A3-L	CL710-0037-5	Both ends		AdPC polishing	40.0mm
HMUAJ-SP1-F3B3-L	CL710-0038-8	One end		DO maliabia a	- <i>φ</i> 0.9mm
HMUAJ-SP2-F3B3-L	CL710-0039-0	Both ends	GI-50/125 AdPC polishing	PC poilsning	
HMUAJ-ASP1-F3B3-L	CL710-0055-7	One end		AdDC naliabina	
HMUAJ-ASP2-F3B3-L	CL710-0056-0	Both ends			

(NOTE 1) The "L" within the Product Number indicates the length of the cable illustrated in the diagram. Please specify values in meter units.

(NOTE 2) We will custom manufacture a great variety of conversion cables and products other than the aforementioned items to suit your needs.

■Tools

●Optical Plug Insertion and Withdrawal Tool



Product Number	HRS No.	Color of Tip	Applicable Connector Housing
HMUA-TP-1	CL710-0074-1	Blue	HMUA-A-1,2A-1,8A-1
HMUB-TP-1	CL710-0075-4	Brown	HMUB-L2HA-1,L2HB-1
			HMUB-L8HA-1,L8HB-1

Optical Plug Extraction Tool



Product Number	HRS No.	Applicable Connector Housing
HMUB-TJ-1	CL710-0076-7	HMUB-L2PA-1,L8PA-1

•Sleeve Holder Insertion and Withdrawal Tool



Product Number	HRS No.	Applicable Connector Housing
HMUB-TS-1	CL710-0077-0	HMUB-L2PA-1,L8PA-1

●Locking Tools for Optical Plug Assembly



Product Number	HRS No.	Applicable Connector Housing
HMUA-TK-1	CL710-0080-4	HMUA-P2-H2,H1
		HMUA-2P2-H2,H1



Product Number	HRS No.	Applicable Connector Housing
HMUA-TK-2	CL710-0081-7	HMUAJ-P2-H2,H1