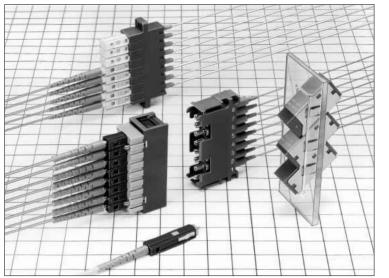
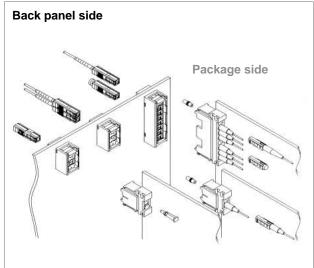
MU Type Fiber Optic Connectors

HMU Series





■Features

1. JIS, IEC standard compliant and intermateability test certified.

Comply with JIS C 5983 (F14 type fiber optic connectors) and IEC 61754-6. MU intermate test by NTT certified connector.

2. Flame resistant

Satisfies flammability rating UL94V-0

3. Backplane

MU Backplane connector has a self-holding mechanism which does not transfer any force on the back panel when both side of connector assemblies are fully connected. Back panel side connectors can be removed or inserted even both sides are mated.

4. Wide Variety of adapter type

Number of Fiber connections Type	Single	Duplex	4 way	8 way	16 way
Board Mounting	0	0		0	-
Snap-in Panel Mounting & Screw Panel Mounting	0	0	0	0	0

5. Simplified plugs and Receptacles

Extremely small size (only 13.75mm Plug length). MU simplified plug is designed for equipments inside connection.

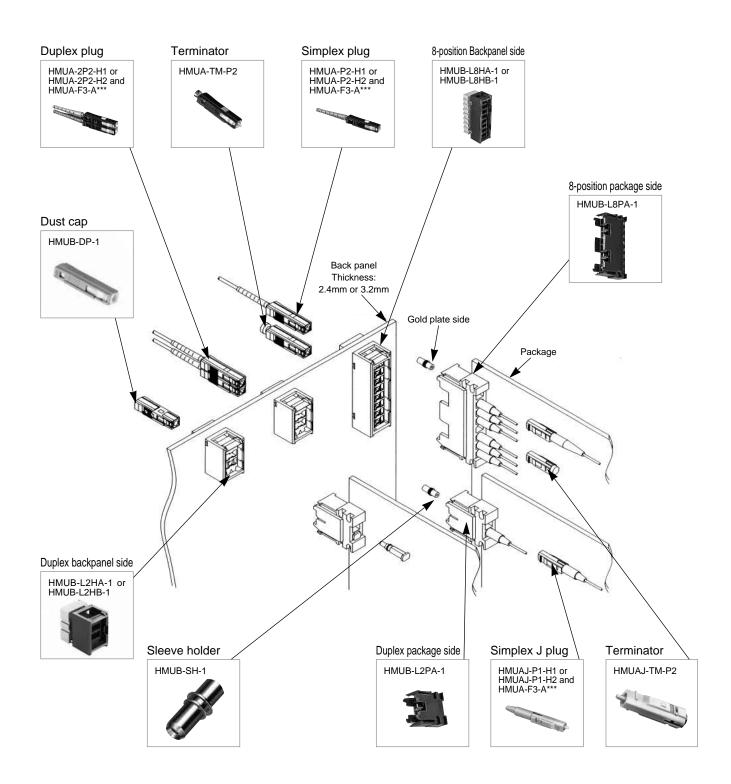
■Product Specifications

	Ratings Operating temperature range -25°C to +70°C Sto		rage temperature range	-25°C to +70°C			
	Item		Test Method (IE	C 61300/JIS C 5961)		Specif	ications
tics	Insertion Loss	SM	Wavelength 1310nm (LD)		0.5dB max. (AdPC)	
Optical tracterist	Insertion Loss	MM(GI)	Wavelength 1310nm (LED)		0.3dB max. (AdPC)	
Optical Characteristics	Return Loss	SM	Wavelength 1310nm (40dB min. (AdPC)	
Ch	Return Loss	MM(GI)	wavelength is form				
ics	Engagement ar Separation forc		Measured with corres	oonding connector.		Separation Duplex plug Engagen	nent force: 20 N max. on force: 20 N max. nent force: 30 N max. on force: 30 N max.
Mechanical Characteristics	Ferrule with drav	wal force	Extract zirconia gauge from split sleeve.	Extract zirconia gauge 1.249 ±0.0005 mm diameter from split sleeve.		Copper alloy split slee Zirconia split sleeve	eve 1N to 3N 1N to 2.5N
al Char	Cable retention (Straight pull)		70N tensile loads for c	one minute.		 Insertion loss fluctuati No visible damage, dis 	
chanica	Durability (cycles, mating/unmating)200 times (Backplane) 500 times (Plug)VibrationFrequency: 10 to 55 Hz, single at 2 hours in each of the 3 axis.)				
Me			•	mm,			
	Shock		Acceleration of 981 m/s ² , sin half-wave waveform,	6 ms duration, 10 cycles in each of the 3	axis.	1) Insertion loss fluctuati	
Environmental Characteristics	SignedHumidity (Temperature/ humidity- cycles)-10°C to 65°C, humidity: 9 10 cyclesChange of Temprature-25°C to +70°C100 cycles		ty: 90% to 96%		2) No visible damage, cr	acks of part dislocation.	
teris			cycles				
iron	Dry heat		960 hours at 85°C				
Env	Cold		960 hours at -25°C				
	Salt mist		48 hours in a 5% cond	centration of salt mist		No significant corrosic	on.

■Materials

Part	Material
Simplex plug housing	Synthetic resin
Spring	Steel
Ferrule	Zirconia
Simplex adapter housing	Synthetic resin
Adapter metal fittings	Stainless steel or copper alloy (Nickel plating)
Simplified receptacle housing	Synthetic resin
Simplified plug	Zirconia
Backplane connector housing	Synthetic resin
Split sleeve	Zirconia or copper alloy
Dust cap	Synthetic resin

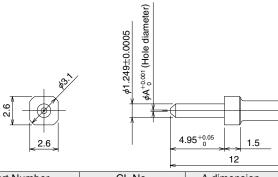
■Function diagram



■Ferrules

•For MU plugs





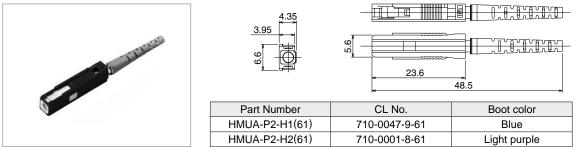
Part Number	CL No.	A dimension	Applicable Fiber cable
HMUA-F3-A125(10)	710-0024-3-10	0.125	
HMUA-F3-A1255(10)	710-0121-0-10	0.1255	SM,MM
HMUA-F3-A126(10)	710-0025-6-10	0.126	

∳1 (Hole diameter)

φ1.8

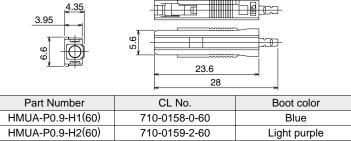
■Plug Housings

•Simplex Plug Housing for 2mm cable



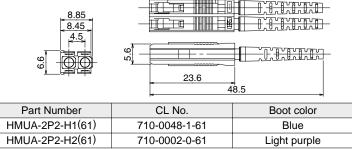
Simplex Plug Housing for 0.9mm fiber





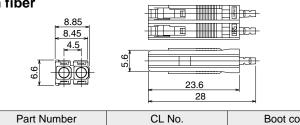
•Duplex Plug Housing for 2mm cable





•Duplex Plug Housing for 0.9mm fiber



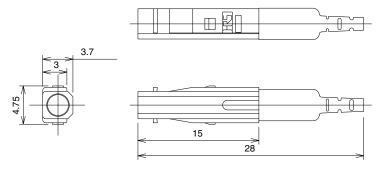


Part Number	CL No.	Boot color
HMUA-2P0.9-H1(60)	710-0162-7-60	Blue
HMUA-2P0.9-H2(60)	710-0163-0-60	Light purple

■J Plug Housing

•Simplex J Plug Housing for 0.9mm fiber



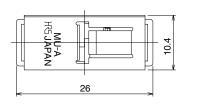


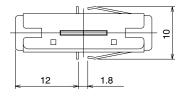
Part Number	CL No.	Boot color
HMUAJ-P0.9-H1(60)	710-0160-1-60	Blue
HMUAJ-P0.9-H2(60)	710-0161-4-60	Light purple

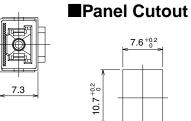
■Adapters

Simplex Adapter / Snap-in Panel Mounting









82.4

10.4

9.5

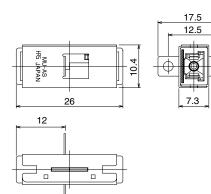
7.6^{+0.2} $10.7^{+0.2}_{-0.2}$

Panel thickness:1.6mm

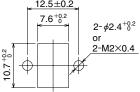
Part Number	CL No.	Split sleeve
HMUA-A-3	710-0103-8	Zirconia

Simplex Adapter / Screw Panel Mounting





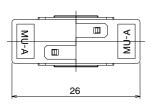
Panel Cutout	
12.5±0.2	

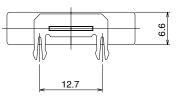


Part Number	CL No.	Split sleeve
HMUA-AS-3	710-0104-0	Zirconia

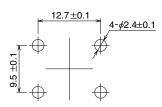
Simplex Adapter / Board Mounting







Board Mounting Pattern



Board thickness: 1.6mm

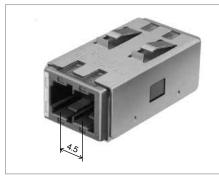
Part Number	CL No.	Split sleeve
HMUA-AH-3(40)	710-0105-3-40	Zirconia

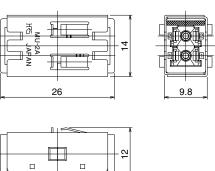
12

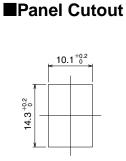
1.8

Duplex adapter / Snap-in Panel Mounting

4.5mm Type



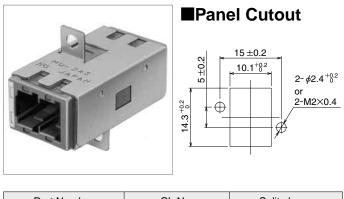




Panel thickness:1.6mm

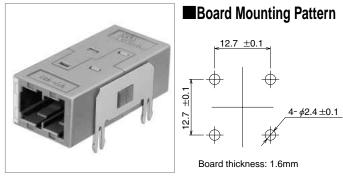
Part Number	CL No.	Split sleeve
HMUA-2A-4	710-0187-8	Zirconia

•Duplex Adapter / Screw Panel Mounting



Part Number	CL No.	Split sleeve
HMUA-2AS-4	710-0188-0	Zirconia

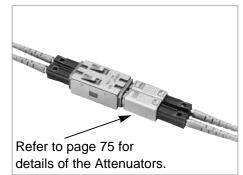
•Duplex Adapter / Board Mounting



Part Number	CL No.	Split sleeve
HMUA-2AH-4(40)	710-0189-3-40	Zirconia

•Duplex Adapter / Snap-in Panel Mounting 6.25mm Type



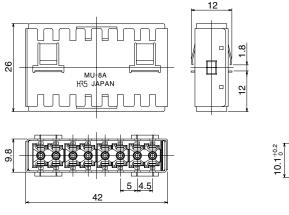


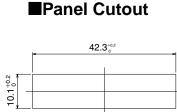
Part Number	CL No.	Split sleeve
HMUA-2AK-1	710-0196-9	Zirconia

Note: The outer dimension is the same as the above "HMUA-2A-4".

OB-Position Adapter / Snap-in Panel Mounting



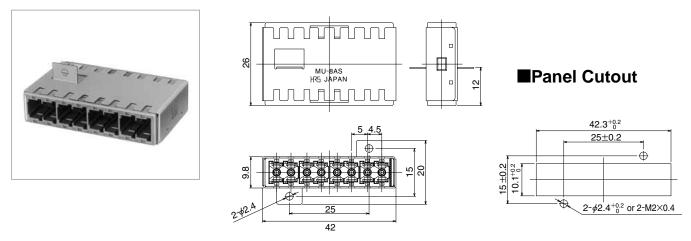




Panel thickness:1.6mm

Part Number	CL No.	Split sleeve
HMUA-8A-3	710-0174-6	Zirconia

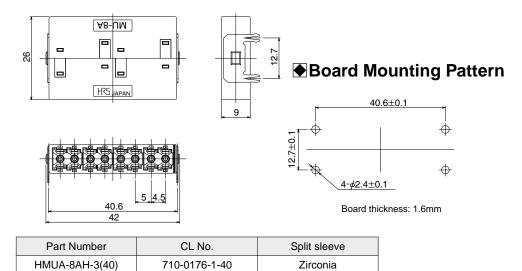
8-Position Adapter / Screw Panel Mounting



Part Number	CL No.	Split sleeve
HMUA-8AS-3	710-0175-9	Zirconia

8-Position Adapter / Board Mounting



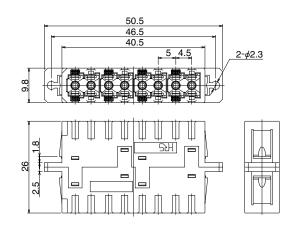


Downloaded from Elcodis.com electronic components distributor

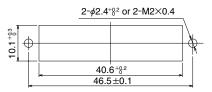
■Cost effective adapters

●8-Position Adapter / Screw Panel Mounting





Panel Cutout

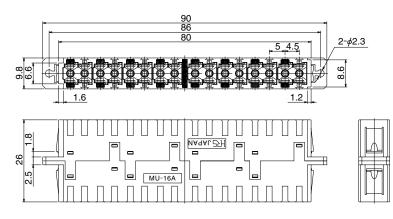


Panel thickness:1.6mm

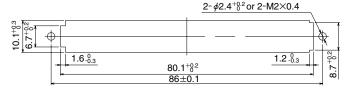
Part Number	CL No.	Split sleeve
HMUA-8A-2(40)	710-0155-1-40	Zirconia
HMUA-8A-B2	710-0119-8	Copper alloy

●16-Position Adapter / Screw Panel Mounting





Panel Cutout



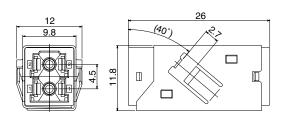
Panel thickness:1.6mm

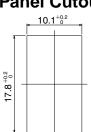
Part Number	CL No.	Split sleeve
HMUA-16A-2	710-0143-2	Zirconia
HMUA-16A-B2(40)	710-0113-1-40	Copper alloy

Angled AdaptersDuplex Angled Adapter / Snap-in Panel Mounting

Panel Cutout





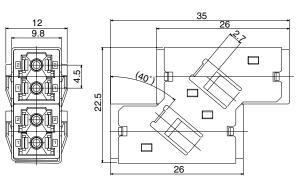


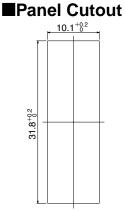
Panel thickness: 2.5mm

Part NumberCL No.Split sleeveMounting AngleHMUA-2A-40A-4710-0243-7Zirconia40°

●4-Position Angled Adapter / Snap-in Panel Mounting

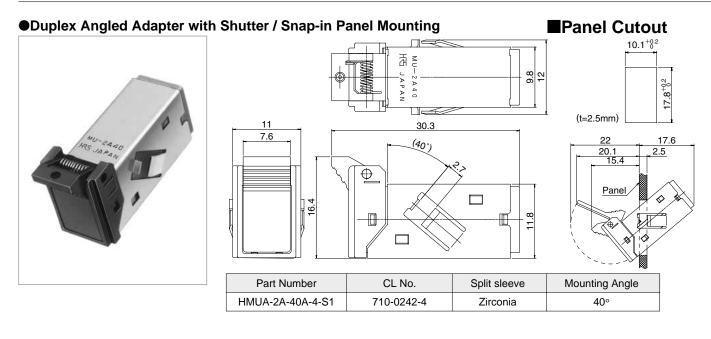






Panel thickness: 2.5mm

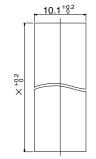
Part Number	CL No.	Split sleeve	Mounting Angle
HMUA-4A-40-4	710-0178-7	Zirconia	40°



Panel Cutout dimensions

Fiber Position	Panel cutout:Xmm
6(Duplex+4 position)	47.4
8(4 position×2)	61.4
10(Duplex+4 position×2)	77.1
12(4 position×3)	91
14(Duplex+4 position×3)	106.7
16(4 position×4)	120.7
18(Duplex+4 position×4)	136.3
20(4 position×5)	150.3

Panel Cutout

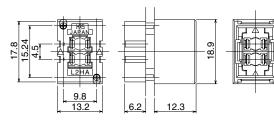


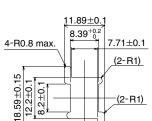
Panel thickness: 2.5mm

■Backpanel side Connector Housings

Duplex Backpanel side Connector Housing







Panel Cutout

Part Number	CL No.	Panel thickness
HMUB-L2HA-1(40)	710-0017-8-40	2.4mm
HMUB-L2HB-1(40)	710-0018-0-40	3.2mm

Note: Screw fastening torque: 0.03Nm

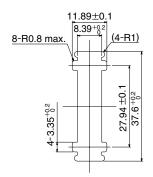
●8-Position Backpanel side Connector Housing

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				1
37.3	27.94	4.5	6.2	

Panel Cutout



Part Number	CL No.	Panel thickness
HMUB-L8HA-1(40)	710-0019-3-40	2.4mm
HMUB-L8HB-1(40)	710-0020-2-40	3.2mm

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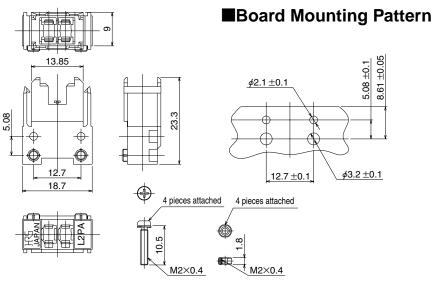
Note: Screw fastening torque: 0.03Nm

■Package side Connector Housings

•Duplex Package side Connector Housing



Note : Screw fastening torque : 0.15Nm



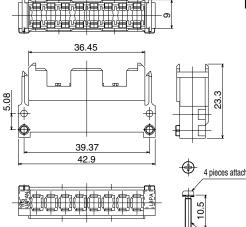
●8-Position Package side Connector Housing



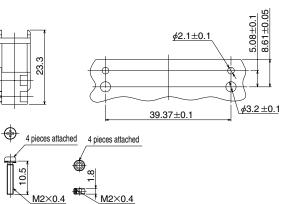
 Part Number
 CL No.

 HMUB-L8PA-1(40)
 710-0016-5-40

Note : Screw fastening torque : 0.15Nm

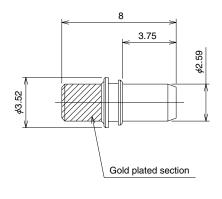


Board Mounting Pattern



■Sleeve Holder





Part Number	CL No.	Split sleeve
HMUB-SH-1(40)	710-0021-5-40	Zirconia

Note: This Sleeve Holder should be used for duplex and 8-position package side connector housing and J Plug

Housing connector plug.

Insert the Sleeve Holder using dedicated tool #HMUB-TS-1.

The gold plated section of the Sleeve Holder should be inserted into the package side connector housing.

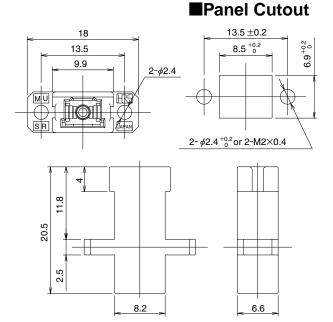


■Simplified Receptacles

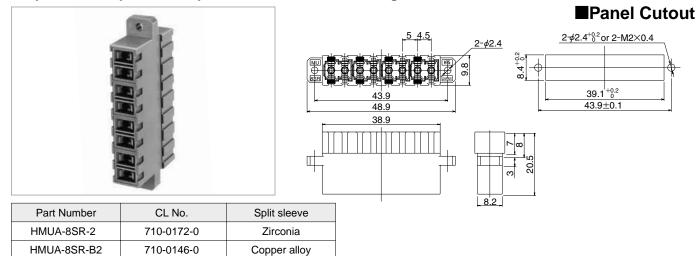
Simplex Simplified Receptacle / Screw Panel Mounting



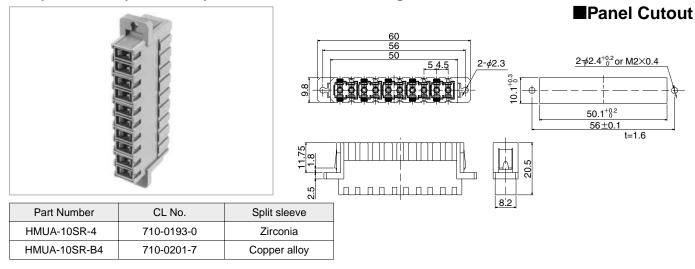
Part Number	CL No.	Split sleeve
HMUA-SR-1(40)	710-0094-9-40	Zirconia
HMUA-SR-B1	710-0182-4	Copper alloy



●8-position Simplified Receptacle / Screw Panel Mounting



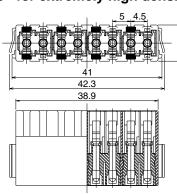
●10-position Simplified Receptacle / Screw Panel Mounting

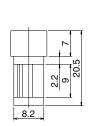


180 The Book Structure Str

●8-position Simplified Receptacle - for extremely high density applications





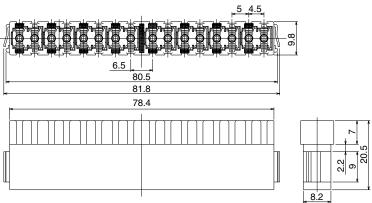


9.8

Part Number	CL No.	Split sleeve
HMUA-8SR-3(40)	710-0168-3-40	Zirconia
HMUA-8SR-B3(40)	710-0117-2-40	Copper alloy

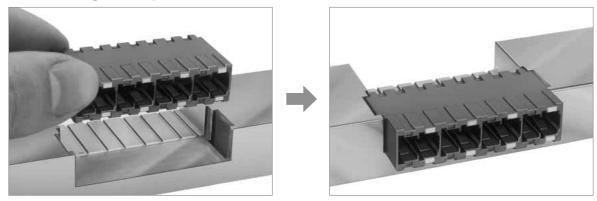
●16-Position Simplified Receptacle - for extremely high density applications





Part Number	CL No.	Split sleeve
HMUA-16SR-5	710-0173-3	Zirconia
HMUA-16SR-B5	710-0122-2	Copper alloy

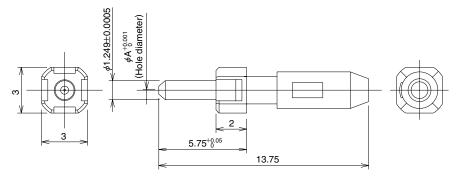
■Mounting Example



■Simplified Plug

Simplex simplified Plug for 0.9mm fiber





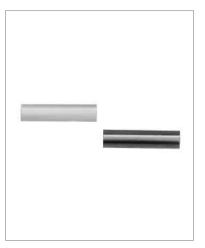
Part Number	CL No.	A dimension	Ferrule	Applicable Fiber cable
HMUA-FK-A125(04)	710-0099-2-04	0.125		
HMUA-FK-A1255(04)	710-0107-9-04	0.1255	Zirconia	SM, MM
HMUA-FK-A126(04)	710-0100-0-04	0.126		

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2.15

3.25

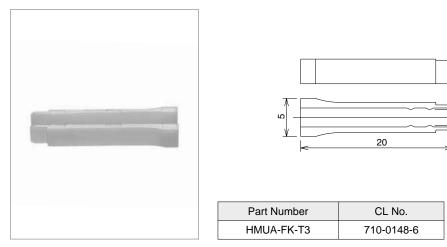
■Split Sleeve



I	6.8-0.1	>

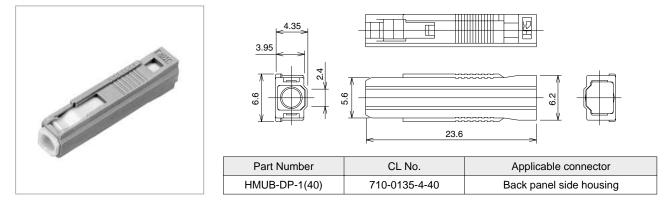
Part Number	CL No.	Split sleeve
HMUA-D	710-0147-3	Zirconia
HMUA-SLIT-SLEEVE(01)	710-0130-0-01	Copper alloy

■Extraction Tool for Simplified Plug

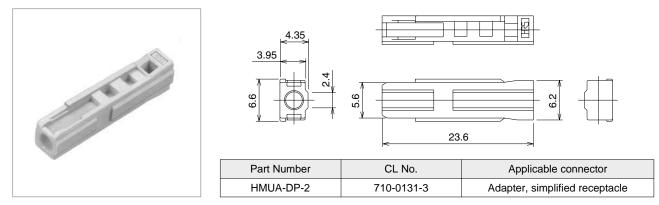


■Dust Caps

•Dust Cap for Backpanel side connector housings



•Dust Cap for Adapters



■Tools

Insertion / Extraction Tool for Plug



Part Number	CL No.	Color of Tip	Remarks
HMUA-TP-1	710-0074-1	Blue	For Conventional Adapters
HMUB-TP-1	710-0075-4	Brown	For MU Backplane system

●Insertion / Extraction Tool for Plug Cost effective type



Part Number	CL No.	Remarks
HMU/HEMD-1P	902-6045-8	For Conventional Adapters
		and MU Backplane system

•Extraction Tool for J Plug



Part Number	CL No.	Remarks
	B-TJ-1 710-0076-7	HMUB-L2PA-1
		HMUB-L8PA-1

Insertion / Extraction Tool for Sleeve Holder



Part Number	CL No.	Remarks
HMUB-TS-1	710-0077-0	HMUB-L2PA-1
HIVIOB-13-1		HMUB-L8PA-1

•Crimp Tools



Part Number	CL No.	Applicable plug housing
HT402/HMUA-P2-H2	902-6040-4	HMUA-P2-H2,H1
		HMUA-2P2-H2,H1

•Stop Ring Insertion Tool



Part Number	CL No.	Applicable connector
HMUA.J/PR-MD	902-6019-8	MU plug housings except HMUA-P1.1-H2