MHF® I (4 pads receptacle)

MHF® I receptacle with additional 4th pad improves center alignment when mounted on the board by reflow, and increases solder shear force



Product Specifications:

Mated Height (mm max.)		(1) (2) 2.5 (3) 3.0	
Rece. SMT Size (mm)		3.1 x 3.0	
Applicable Frequency		DC ~ 9 GHz	
Characteristic Impedance		50 ohm	
VSWR (L=100 mm)	Connector	PLUG	RECEPTACLE
	DC ~ 3 GHz	1.3 max.	1.3 max.
	3 ~ 6 GHz	1.5 max.	1.4 max.
	6 ~ 9 GHz	(1) 1.9 max. (2)(3) 1.6 max.	1.8 max.

* Cable size O.D. (1) 0.81 mm, 1.13mm, 1.37 mm, 1.80 mm (2) 1.32 mm (3) 2.0 mm

Applicable Cable Size:

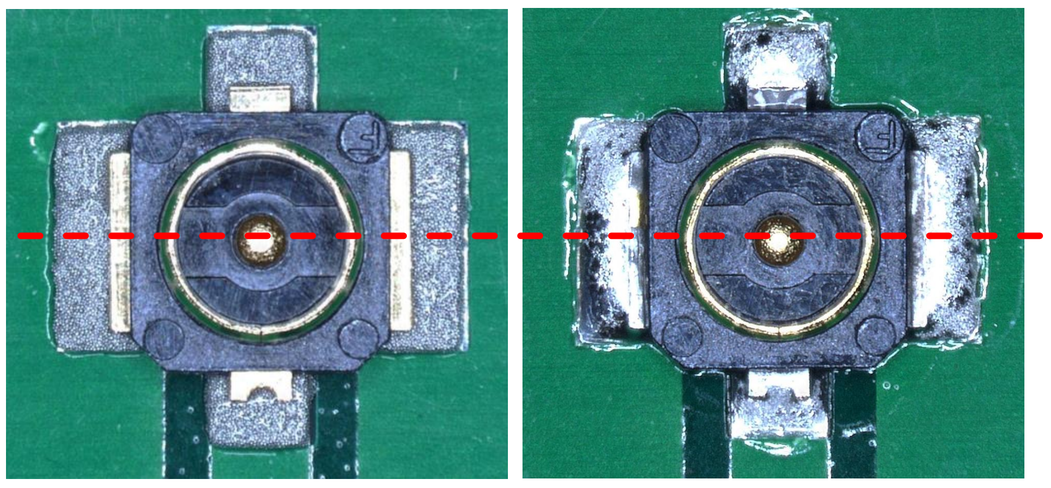
20278-112R-, 20670-001R-****
O.D. 1.80 mm / AWG 30
O.D. 1.32 mm, 1.13 mm / AWG 32
O.D. 0.81 mm / AWG 36
20351-112R-37
O.D. 1.37 mm / AWG 30
20767-001R-20
O.D. 2.0 mm / AWG 26

Applicable Standards (Reference Only):

5G sub-6, Wi-Fi 6E, LTE/LTE-Advanced, LPWA, Bluetooth, GPS

Improved center alignment by having additional pad

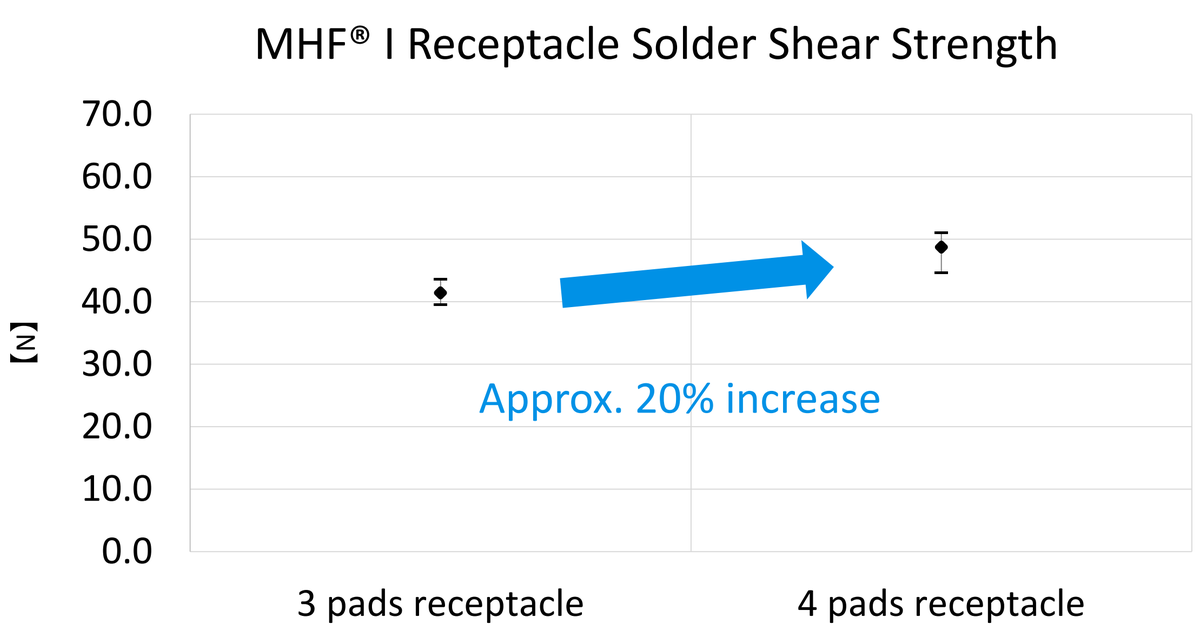
4 pads receptacle



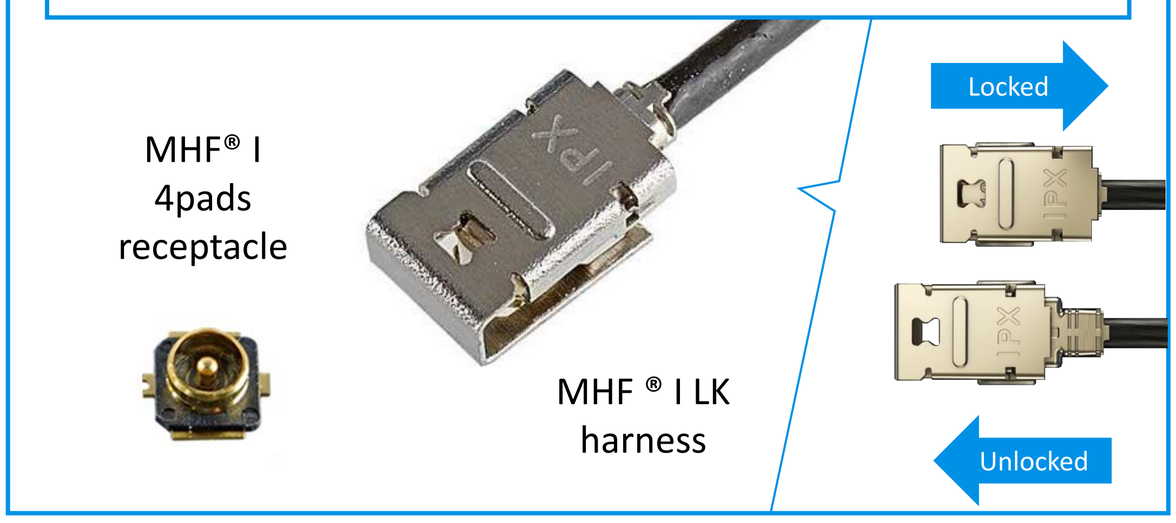
Before reflow ▶ After reflow

- Improve quality of the implementation process
- Realizing an RF circuit close to the ideal design
- Allows precise positioning with the RF harness

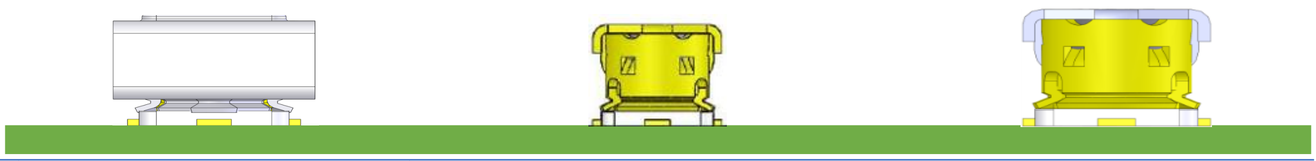
Increased solder shear force with additional pad



Perfect combination with **locking connector** for continuous shock and vibration applications!



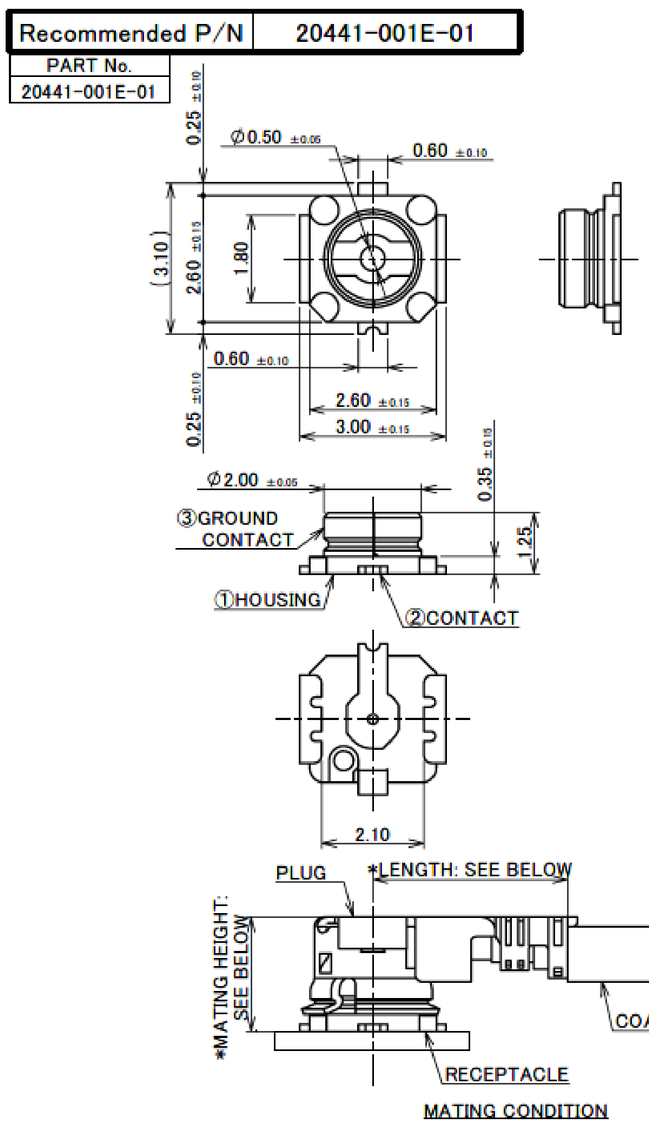
Mate with MHF® I series various cable O.D. and additional locking option

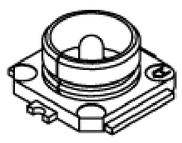


Product name		MHF® I LK	MHF® I	MHF® I
Lock		With Lock	Without Lock	Without Lock
Mating Height		2.9 mm max.	2.5 mm max.	3.0 mm max.
Coax O.D. (Center Conductor AWG)	2.00 mm (AWG#26)			●
	1.80 mm (AWG#30)	●	●	
	1.37 mm (AWG#30)	●	●	
	1.32 mm (AWG#32)	●	●	
	1.13 mm (AWG#32)	●	●	
	0.81 mm (AWG#36)	●	●	
Receptacle		MHF® I receptacle 20279-001E-** (3 pads) / 20441-001E-01 (4 pads)		

Component Parts Details

MHF® I Receptacle (4pads/Black color HSG)





Halogen Free

RoHS Compliant

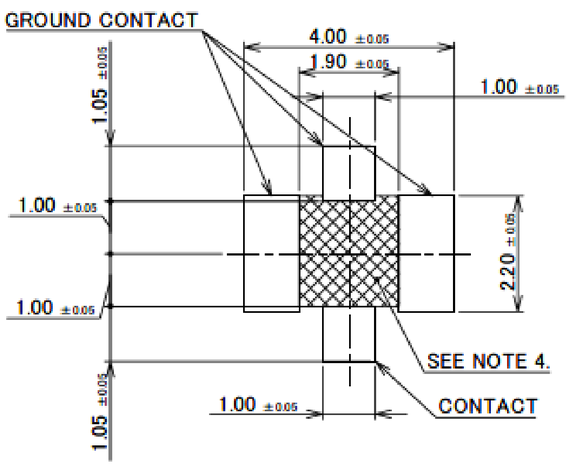
*LENGTH: 4.0±0.4 AT PLUG PART NO. 20670-001R-08, 20670-001R-13, 20670-001R-32
4.7±0.4 AT PLUG PART NO. 20670-001R-18, 20670-001R-37
5.6 AT PLUG PART NO. 20767-001R-20 (REFERENCE DIMENSION)
3.8±0.3 AT PLUG PART NO. 20686-001R-08, 20311-011R-**
*MATING HEIGHT: 2.5 MAX. AT PLUG PART NO. 20670-001R-**
(2.9 MAX. AT MHF I LK LOCKED CONDITION)
3.0 MAX. AT PLUG PART NO. 20767-001R-20
2.0±0.1 AT PLUG PART NO. 20686-001R-08, 20311-011R-**

NOTES.
1. APPLICABLE CONNECTOR PART NUMBER:
MHF I PLUG
20278-112R-**
20351-1**R-37
20670-001R-**
20767-001R-20
MHF II PLUG
20311-011R-**
20686-001R-08
2. COPLANARITY: 0.1mm MAX.
3. THIS IS "Pb-FREE" CONNECTOR.

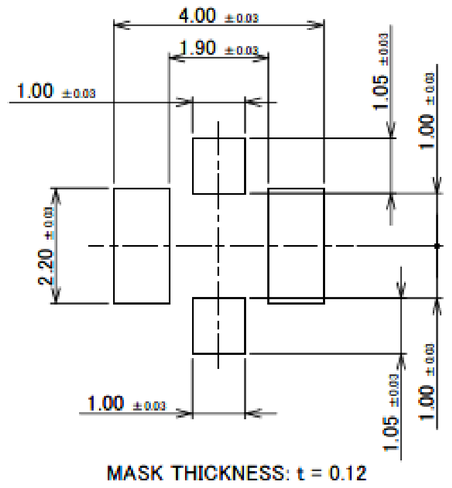
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
3	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00μm MIN. CONTACT PART Au 0.03μm MIN. SOLDERING PART Au 0.03μm MIN.
2	CONTACT	BRASS	ALL OVER Ni 1.00μm MIN. CONTACT PART Au 0.10μm MIN. SOLDERING PART Au 0.03μm MIN.
1	HOUSING	LCP	UL94V-0, BLACK

Rev.7

MHF® I Receptacle (4pads/Black color HSG)

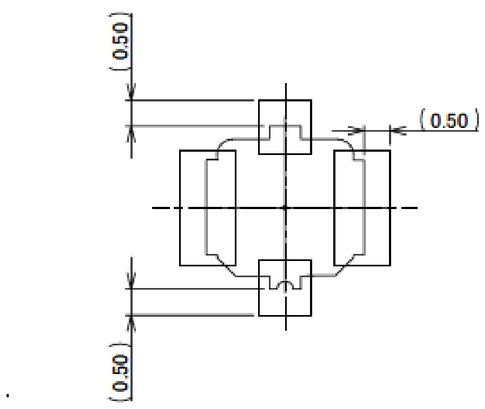


RECOMMENDED FOOTPRINT PATTERN

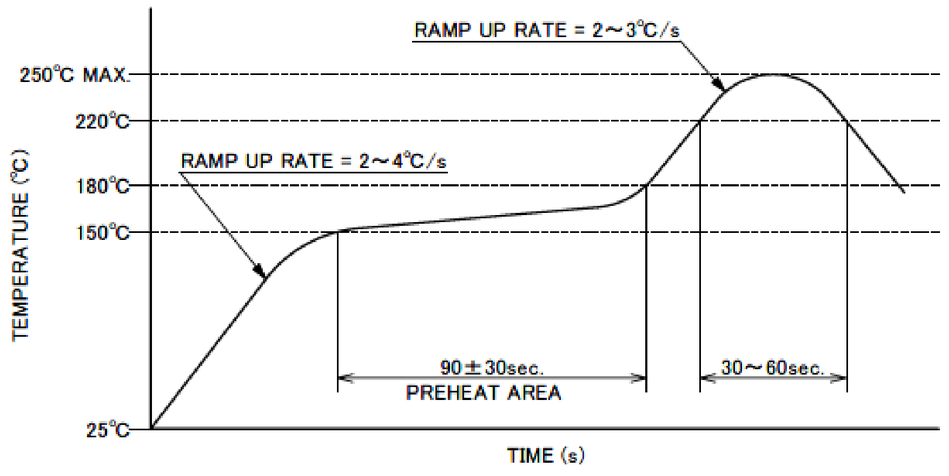


MASK THICKNESS: t = 0.12

METAL MASK



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



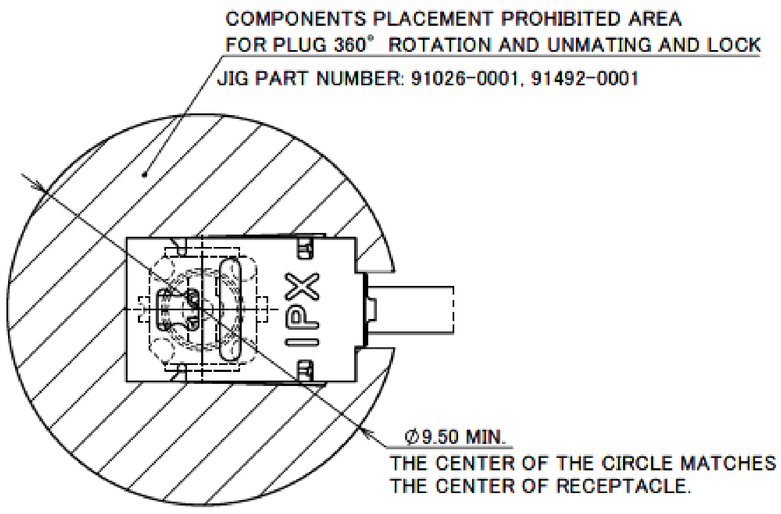
REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

NOTE
4. NO GROUND, SIGNAL, RESIST IN THIS AREA.

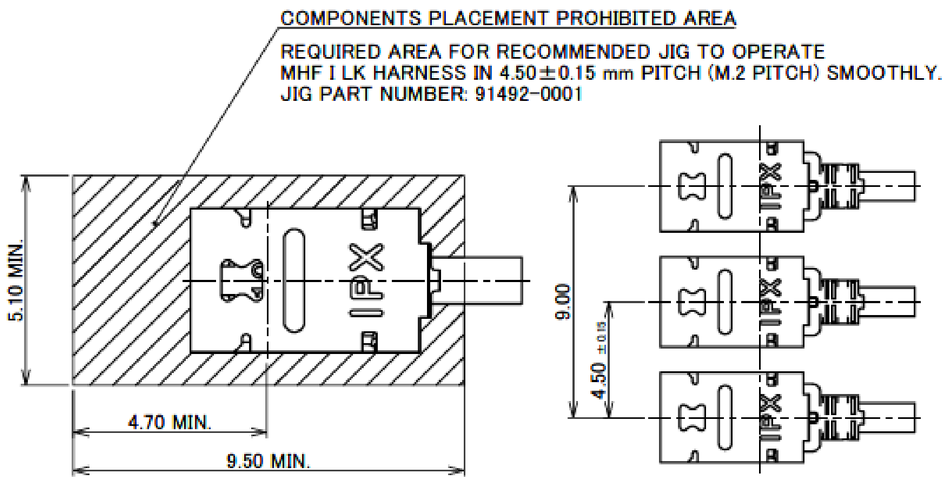
Rev.7

COMPONENT PLACEMENT PROHIBITED AREA FOR MHF I/II RECEPTACLE MATED WITH MHF I LK HARNESS REQUIRED AREA FOR RECOMMENDED JIG TO OPERATE

SINGLE CONNECTOR LAYOUT



MULTIPLE CONNECTORS LAYOUT



MATING AND LOCK CONDITION
WITH MHF I LK HARNESS

MATING AND LOCK CONDITION
WITH MHF I LK HARNESS NARROW PITCH

MHF I LK HARNESS UNLOCK CONDITION
NARROW PITCH DIMENSIONS
(S = 5 : 1)

Rev.7

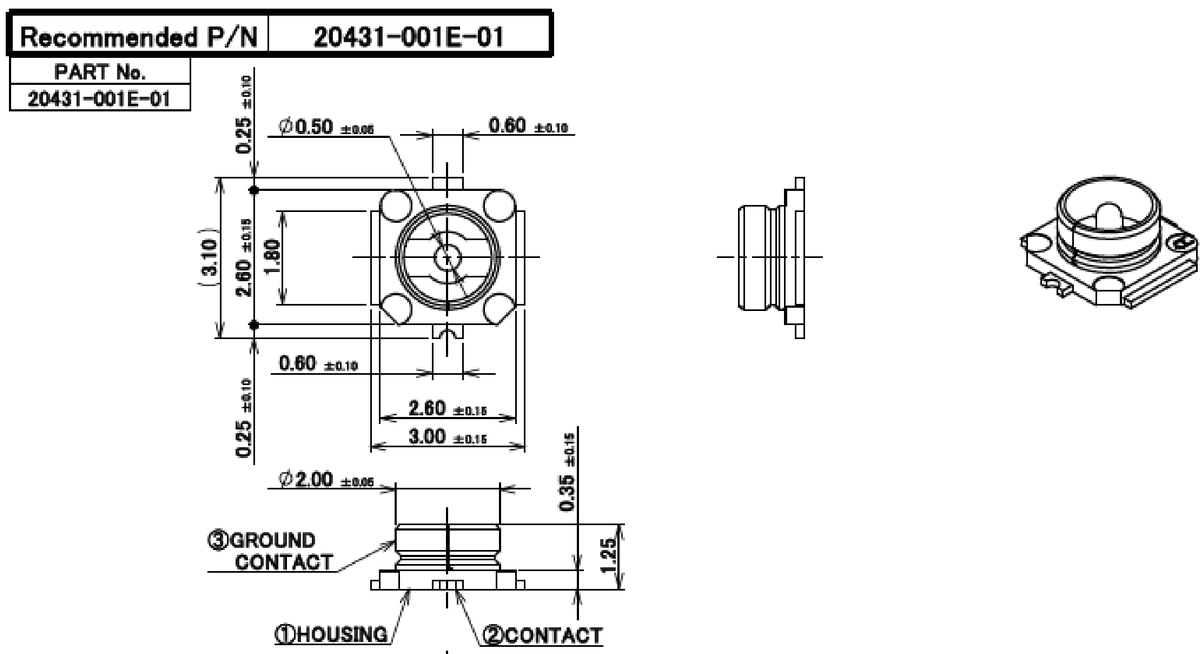
MHF® I Receptacle (4pads/Black color HSG)

ITEMS	SPECIFICATION				
RECOMMENDED APPLICABLE CONNECTOR PART NO.	20278-001R-** (MHF I PLUG 1.80, 1.32, 1.13, 0.81)	20351-001R-** (MHF I PLUG 1.37)	20670-001R-** (MHF I PLUG Ni TOP 1.80, 1.37, 1.32, 1.13, 0.81)	20767-001R-20 (MHF I PLUG 2.00)	20686-001R-08 (MHF II PLUG Ni TOP 0.81)
RATING VOLTAGE	60 V AC (R.M.S)				
RATING FREQUENCY	DC～9GHz				
OPERATING TEMPERATURE	233～363K (-40℃～+90℃)				
VSWR (MATED WITH SMA ADAPTER PART No.90193-002)	RECEPTACLE: 1.30 MAX. AT 0.1～3 GHz, 1.40 MAX. AT 3～6 GHz, 1.80 MAX. AT 6～9 GHz				
MAIN CONTACT RESISTANCE	INITIAL : 20 mohm MAX. AFTER TEST : 25 mohm MAX.		INITIAL : 20 mohm MAX. AFTER TEST : ⊿R 20 mohm MAX.		
GROUND CONTACT RESISTANCE	INITIAL : 10 mohm MAX. AFTER TEST : 15 mohm MAX.		INITIAL : 20 mohm MAX. AFTER TEST : ⊿R 100 mohm MAX.		
INSULATION RESISTANCE	INITIAL: 500 Mohm MIN. / AFTER TEST: 100 Mohm MIN.				
DIELECTRIC WITHSTANDING VOLTAGE	200 V AC, 1 MINUTE				
DURABILITY	30 CYCLES				
UNMATING FORCE (INITIAL / AFTER TEST)	INITIAL: 5 N MIN. AFTER TEST: 3 N MIN.				INITIAL: 4 N MIN. AFTER TEST: 2 N MIN.
PRODUCT SPECIFICATION	PRS-1676	PRS-1726	PRS-2105	PRS-2490	PRS-2106
TEST REPORT	TR-12044	TR-12096	TR-15059	TR-18041	TR-15060
PACKING STANDARD	300-596				
INSTRUCTION MANUAL	HIM-10002			HIM-17017	HIM-12010
APPEARANCE CRITERIA No.	QLS-A***				

Rev.7

MHF® I Receptacle (4pads/Natural color HSG)

Recommended P/N	20431-001E-01
PART No.	
20431-001E-01	



HF Halogen Free

RoHS Compliant

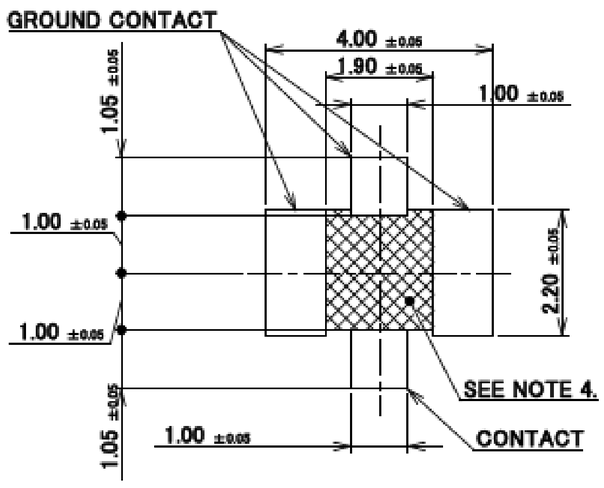
NOTES.
1. APPLICABLE CONNECTOR PART NUMBER:
   MHF I PLUG
   20278-112R-**
   20351-1**R-37
   20670-001R-**
   20767-001R-20
   MHF II PLUG
   20311-011R-**
   20686-001R-08
2. COPLANARITY: 0.1mm MAX.
3. THIS IS "Pb-FREE" CONNECTOR.

NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
3	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00μm MIN. CONTACT PART Au 0.03μm MIN. SOLDERING PART Au 0.03μm MIN.
2	CONTACT	BRASS	ALL OVER Ni 1.00μm MIN. CONTACT PART Au 0.10μm MIN. SOLDERING PART Au 0.03μm MIN.
1	HOUSING	LCP	UL94V-0, NATURAL

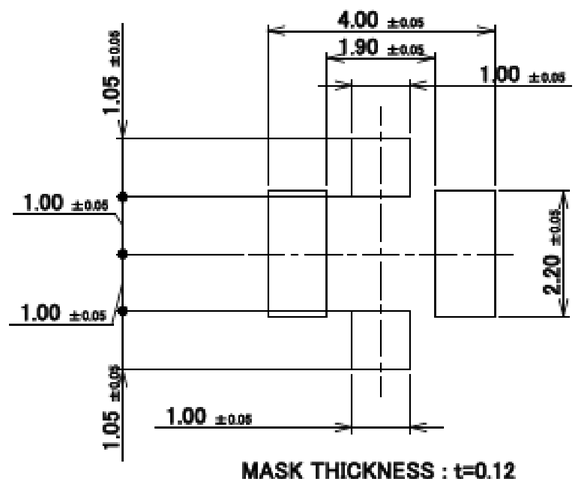
*LENGTH: 4.0±0.4 AT PLUG PART NO. 20670-001R-08, 20670-001R-13, 20670-001R-32
4.7±0.4 AT PLUG PART NO. 20670-001R-18, 20670-001R-37
5.6 AT PLUG PART NO. 20767-001R-20 (REFERENCE DIMENSION)
3.8±0.3 AT PLUG PART NO. 20686-001R-08, 20311-011R-**
*MATING HEIGHT: 2.5 MAX. AT PLUG PART NO. 20670-001R-**
(2.9 MAX. AT MHF I LK LOCKED CONDITION)
3.0 MAX. AT PLUG PART NO. 20767-001R-20
2.0±0.1 AT PLUG PART NO. 20686-001R-08, 20311-011R-**

Rev.5

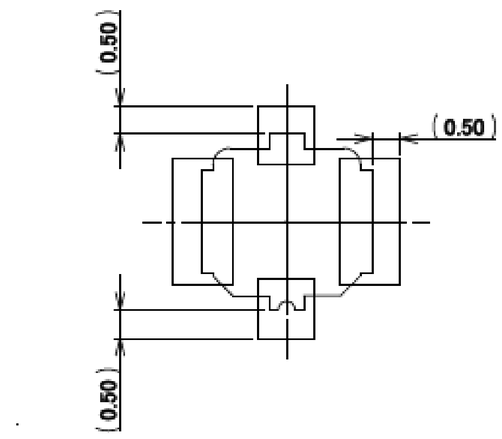
MHF® I Receptacle (4pads/Natural color HSG)



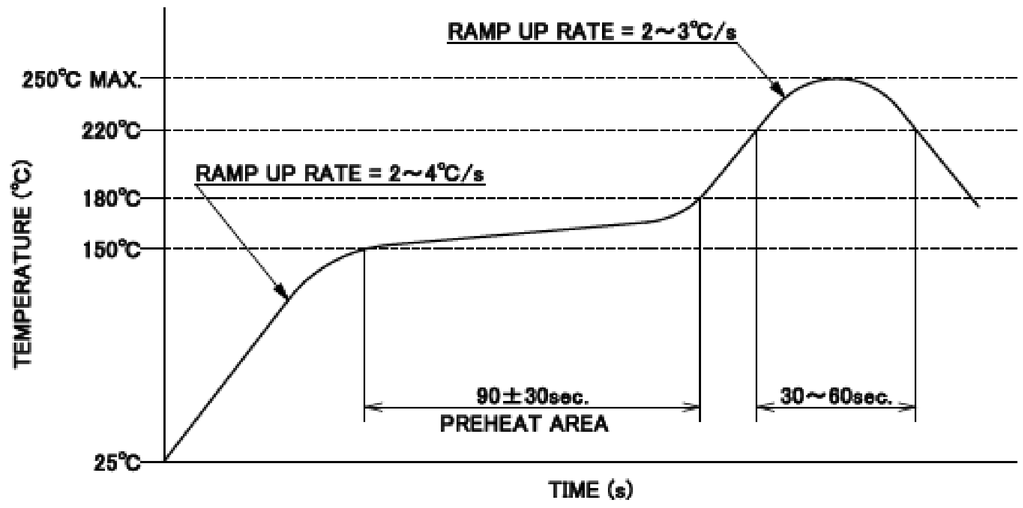
RECOMMENDED FOOTPRINT PATTERN



MASK THICKNESS : t=0.12
METAL MASK



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN

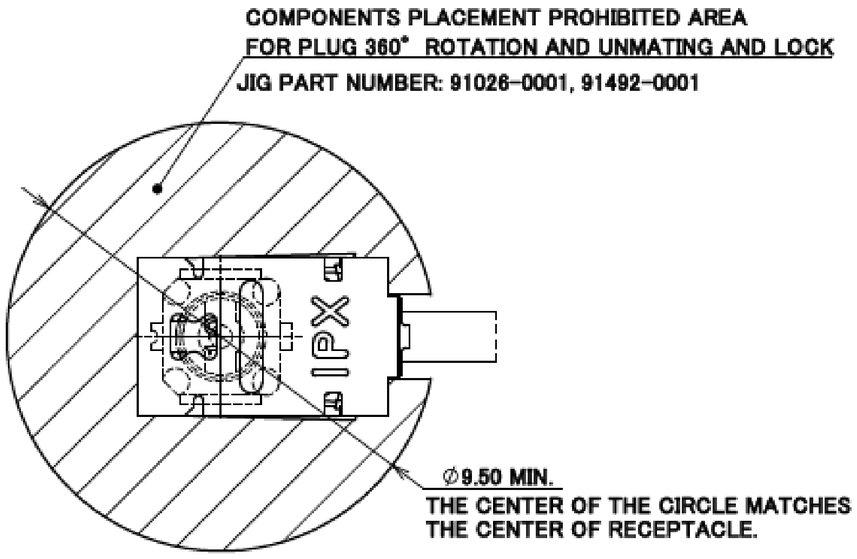


REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

NOTES.
4. NO GROUND, SIGNAL, RESIST IN THIS AREA.

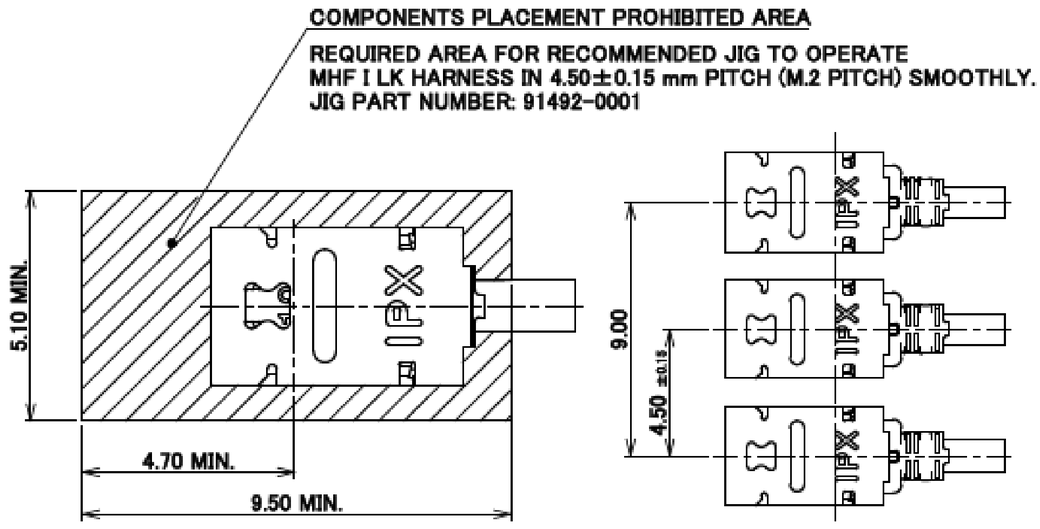
COMPONENT PLACEMENT PROHIBITED AREA
FOR MHF I/II RECEPTACLE MATED WITH MHF I LK HARNESS
REQUIRED AREA FOR RECOMMENDED JIG TO OPERATE

SINGLE CONNECTOR LAYOUT



MATING AND LOCK CONDITION
WITH MHF I LK HARNESS

MULTIPLE CONNECTORS LAYOUT



MATING AND LOCK CONDITION
WITH MHF I LK HARNESS NARROW PITCH

MHF I LK HARNESS UNLOCK CONDITION
NARROW PITCH DIMENSIONS
(S = 5 : 1)

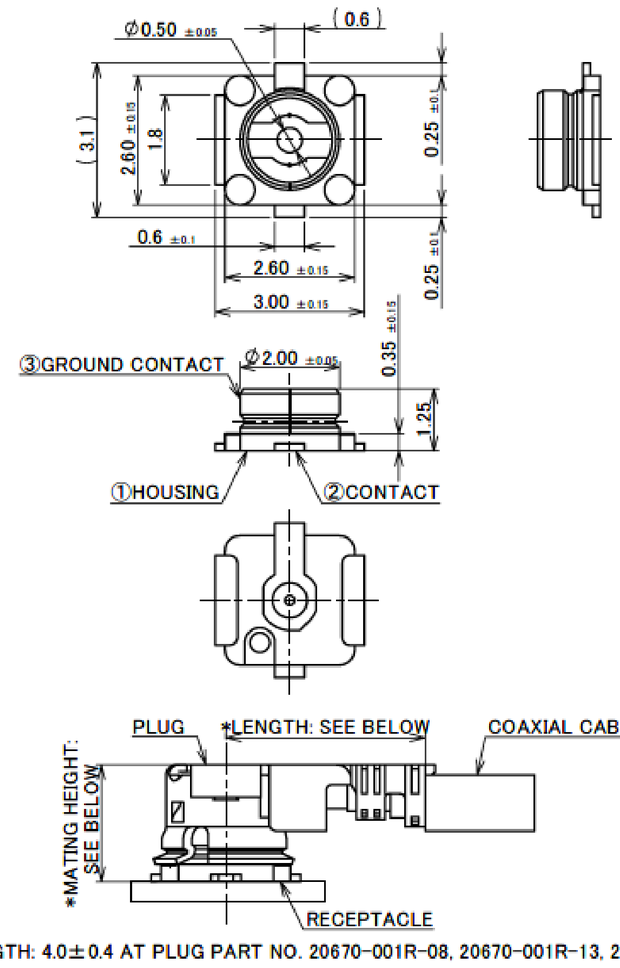
MHF® I Receptacle (4pads/Natural color HSG)

ITEMS	SPECIFICATION				
RECOMMENDED APPLICABLE CONNECTOR PART NO.	20278-001R-** (MHF I PLUG 1.80, 1.32, 1.13, 0.81)	20351-001R-** (MHF I PLUG 1.37)	20670-001R-** (MHF I PLUG Ni TOP 1.80, 1.37, 1.32, 1.13, 0.81)	20767-001R-20 (MHF I PLUG 2.00)	20686-001R-08 (MHF II PLUG Ni TOP 0.81)
RATING VOLTAGE	60 V AC (R.M.S)				
RATING FREQUENCY	DC～9GHz				
OPERATING TEMPERATURE	233～363K (-40℃～+90℃)				
VSWR (MATED WITH SMA ADAPTER PART No.90193-002)	RECEPTACLE: 1.3 MAX AT 0.1～3 GHz, 1.4 MAX AT 3～6 GHz, 1.8 MAX. AT 6～9 GHz				
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. AFTER TEST: 25 mohm MAX.		INITIAL: 20 mohm MAX. AFTER TEST: ⊿R 20 mohm MAX.		
GROUND CONTACT RESISTANCE	INITIAL: 10 mohm MAX. AFTER TEST: 15 mohm MAX.		INITIAL: 20 mohm MAX. AFTER TEST: ⊿R 100 mohm MAX.		
INSULATION RESISTANCE	INITIAL: 500 Mohm MIN. / AFTER TEST: 100 Mohm MIN.				
DIELECTRIC WITHSTANDING VOLTAGE	200 V AC, 1 MINUTE				
DURABILITY	30 CYCLES				
UNMATING FORCE (INITIAL / AFTER TEST)	INITIAL: 5 N MIN. AFTER TEST: 3 N MIN.				INITIAL: 4 N MIN. AFTER TEST: 2 N MIN.
PRODUCT SPECIFICATION	PRS-1676	PRS-1726	PRS-2105	PRS-2490	PRS-2106
TEST REPORT	TR-12044	TR-12096	TR-15059	TR-18041	TR-15060
PACKING STANDARD	PST-17011				
INSTRUCTION MANUAL	HIM-10002			HIM-17017	HIM-12010
APPEARANCE CRITERIA No.	QLS-A***				

Rev.5

MHF® I Receptacle (3pads)

Recommended P/N	20279-001E-03	
PART NO.	PACKING REEL	QUANTITY IN 1 REEL
20279-001E-01	PLASTIC REEL	2,500
	CORRUGATED PAPER REEL	2,500
20279-001E-03	PLASTIC REEL	5,000
20279-001E-05	PLASTIC REEL	10,000

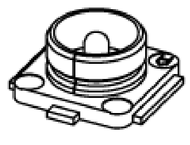


*LENGTH: 4.0±0.4 AT PLUG PART NO. 20670-001R-08, 20670-001R-13, 20670-001R-32
4.7±0.4 AT PLUG PART NO. 20670-001R-18, 20670-001R-37
5.6 AT PLUG PART NO. 20767-001R-20 (REFERENCE DIMENSION)
3.8±0.3 AT PLUG PART NO. 20686-001R-08, 20311-011R-**
*MATING HEIGHT: 2.5 MAX. AT PLUG PART NO. 20670-001R-**
(2.9 MAX. AT MHF I LK LOCKED CONDITION)
3.0 MAX. AT PLUG PART NO. 20767-001R-20
2.0±0.1 AT PLUG PART NO. 20686-001R-08, 20311-011R-**

MATING CONDITION

Halogen Free

RoHS Compliant



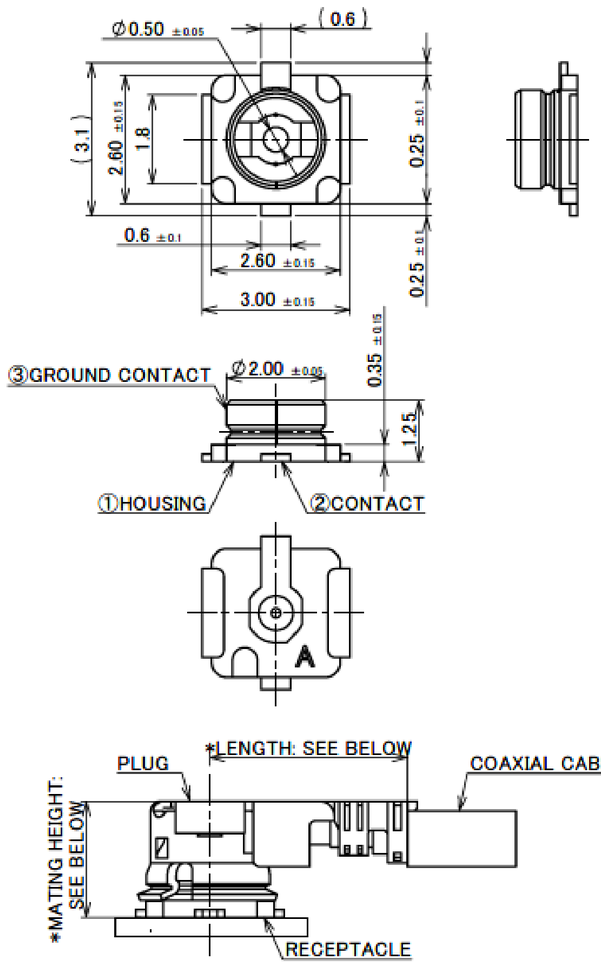
NOTES
1. APPLICABLE CONNECTOR PART NO.
MHF I PLUG
20278-11*R-**
20351-***R-37
20631-***R-**
20670-001R-**
20767-001R-20
MHF II PLUG
20311-011R-**
20686-001R-08
2. COPLANARITY: 0.1mm MAX.
3. THIS IS "Pb-FREE" CONNECTOR.

NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
3	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. CONTACT PART Au 0.05 μm MIN. SOLDERING PART Au 0.05 μm MIN.
2	CONTACT	BRASS	ALL OVER Ni 1.00 μm MIN. CONTACT PART Au 0.10 μm MIN. SOLDERING PART Au 0.03 μm MIN.
1	HOUSING	LCP	UL94V-0, WHITE

Rev.32

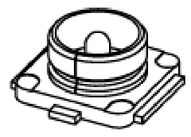
MHF® I Receptacle (3pads)

Recommended P/N	20279-001E-03	
PART NO.	PACKING REEL	QUANTITY IN 1 REEL
20279-001E-06	PLASTIC REEL	10,000



*LENGTH: 4.0±0.4 AT PLUG PART NO. 20670-001R-08, 20670-001R-13, 20670-001R-32
4.7±0.4 AT PLUG PART NO. 20670-001R-18, 20670-001R-37
5.6 AT PLUG PART NO. 20767-001R-20 (REFERENCE DIMENSION)
3.8±0.3 AT PLUG PART NO. 20686-001R-08, 20311-011R-**
*MATING HEIGHT: 2.5 MAX. AT PLUG PART NO. 20670-001R-**
(2.9 MAX. AT MHF I LK LOCKED CONDITION)
3.0 MAX. AT PLUG PART NO. 20767-001R-20
2.0±0.1 AT PLUG PART NO. 20686-001R-08, 20311-011R-**

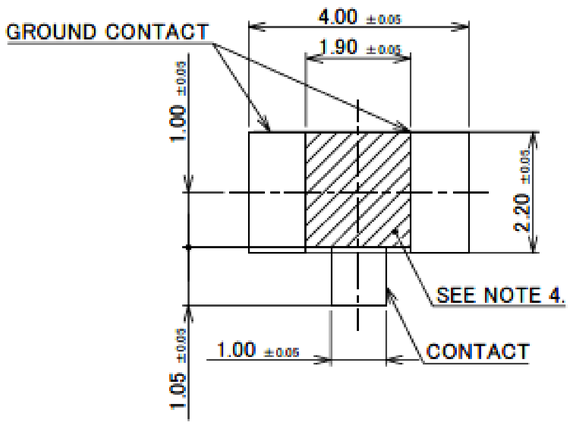
MATING CONDITION



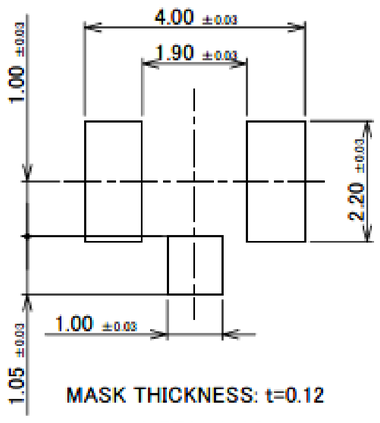
Halogen Free RoHS Compliant

NOTES
1. APPLICABLE CONNECTOR PART NO.
MHF I PLUG
20278-11*R-**
20351-***R-37
20631-***R-**
20670-001R-**
20767-001R-20
MHF II PLUG
20311-011R-**
20686-001R-08
2. COPLANARITY: 0.1mm MAX.
3. THIS IS "Pb-FREE" CONNECTOR.

NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
3	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00μm MIN. CONTACT PART Au 0.05μm MIN. SOLDERING PART Au 0.05μm MIN.
2	CONTACT	BRASS	ALL OVER Ni 1.00μm MIN. CONTACT PART Au 0.10μm MIN. SOLDERING PART Au 0.03μm MIN.
1	HOUSING	LCP	UL94V-0, WHITE

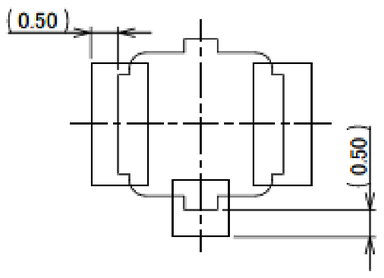


RECOMMENDED FOOTPRINT PATTERN

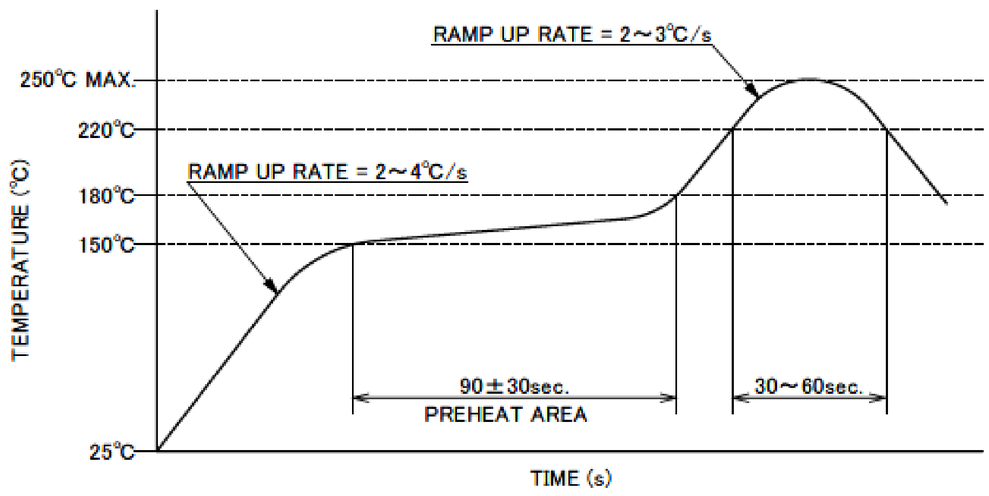


MASK THICKNESS: t=0.12

METAL MASK



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



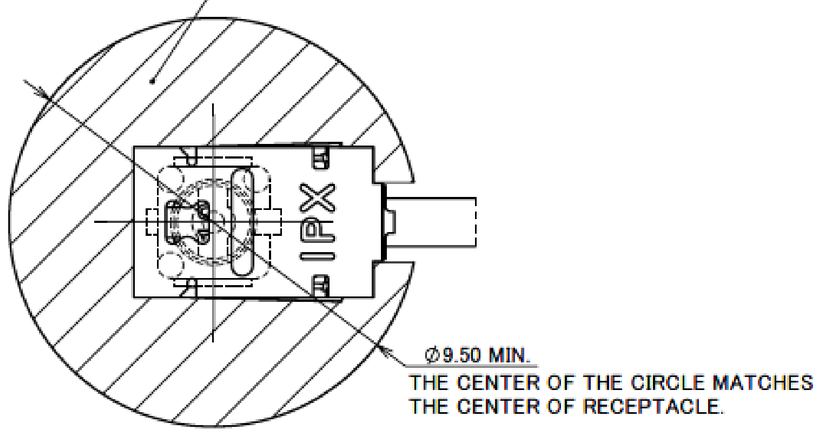
REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

NOTES.
4. NO GROUND, SIGNAL, AND RESIST IN THIS AREA.

MHF® I Receptacle (3pads)

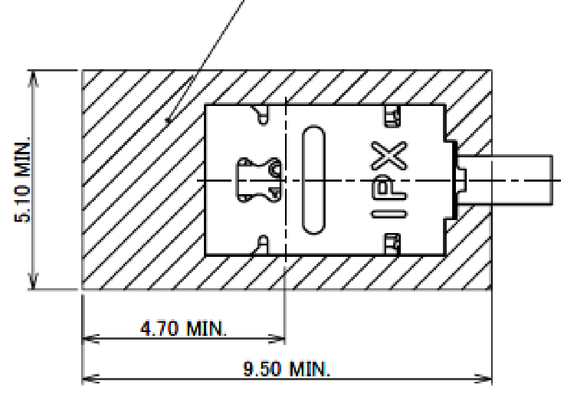
COMPONENT PLACEMENT PROHIBITED AREA
FOR MHF I/II RECEPTACLE MATED WITH MHF I LK HARNESS
REQUIRED AREA FOR RECOMMENDED JIG TO OPERATE

SINGLE CONNECTOR LAYOUT

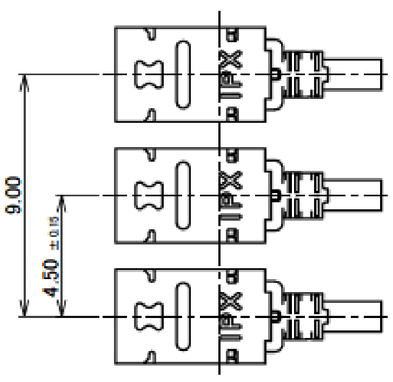


MATING AND LOCK CONDITION
WITH MHF I LK HARNESS

MULTIPLE CONNECTORS LAYOUT



MATING AND LOCK CONDITION
WITH MHF I LK HARNESS NARROW PITCH



MHF I LK HARNESS UNLOCK CONDITION
NARROW PITCH DIMENSIONS
(S = 5 : 1)

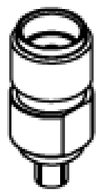
Rev.32

ITEMS	SPECIFICATION				
RECOMMENDED APPLICABLE CONNECTOR PART NO.	20278-001R-** (MHF I PLUG 1.80, 1.32, 1.13, 0.81)	20351-001R-** (MHF I PLUG 1.37)	20670-001R-** (MHF I PLUG Ni TOP 1.80, 1.37, 1.32, 1.13, 0.81)	20767-001R-20 (MHF I PLUG 2.00)	20686-001R-08 (MHF II PLUG Ni TOP 0.81)
RATING VOLTAGE	60 V AC (R.M.S)				
RATING FREQUENCY	DC～9GHz				
OPERATING TEMPERATURE	233～363K (-40℃～+90℃)				
VSWR (MATED WITH SMA ADAPTER PART No.90193-002)	RECEPTACLE: 1.30 MAX. AT 0.1～3 GHz, 1.40 MAX. AT 3～6 GHz, 1.80 MAX. AT 6～9 GHz				
MAIN CONTACT RESISTANCE	INITIAL : 20 mohm MAX. AFTER TEST : 25 mohm MAX.		INITIAL : 20 mohm MAX. AFTER TEST : ⊿R 20 mohm MAX.		
GROUND CONTACT RESISTANCE	INITIAL : 10 mohm MAX. AFTER TEST : 15 mohm MAX.		INITIAL : 20 mohm MAX. AFTER TEST : ⊿R 100 mohm MAX.		
INSULATION RESISTANCE	INITIAL: 500 Mohm MIN. / AFTER TEST: 100 Mohm MIN.				
DIELECTRIC WITHSTANDING VOLTAGE	200 V AC, 1 MINUTE				
DURABILITY	30 CYCLES				
UNMATING FORCE (INITIAL / AFTER TEST)	INITIAL: 5 N MIN. AFTER TEST: 3 N MIN.				INITIAL: 4 N MIN. AFTER TEST: 2 N MIN.
PRODUCT SPECIFICATION	PRS-1676	PRS-1726	PRS-2105	PRS-2490	PRS-2106
TEST REPORT	TR-12044	TR-12096	TR-15059	TR-18041	TR-15060
PACKING STANDARD	20279-001E-01: 300-232 (CORRUGATED PAPER REEL) PST-12002 (ANTI-STATIC PLASTIC REEL) 20279-001E-03: 300-850 20279-001E-05: PST-13040 20279-001E-06: PST-13040				
INSTRUCTION MANUAL	HIM-10002			HIM-17017	HIM-12010
APPEARANCE CRITERIA No.	QLS-A***				

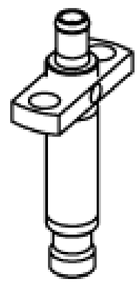
※UNLESS OTHERWISE SPECIFIED, 20279-001E-01 WILL BE DELIVERED IN CORRUGATED PAPER REELS.
CONTACT YOUR I-PEX SALES IF YOU WISH FOR PLASTIC REELS.

Rev.32

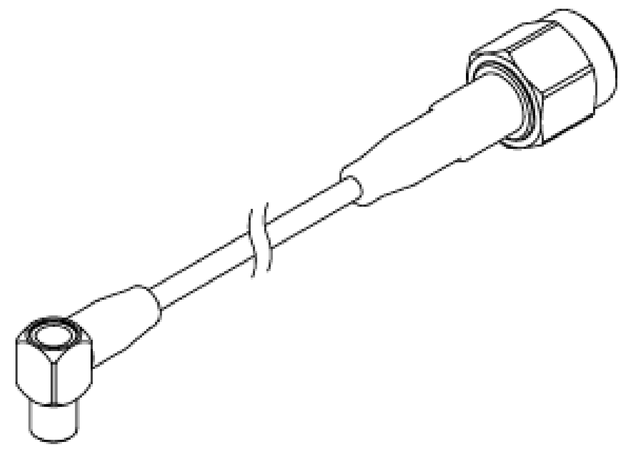
Accessories for MHF® I Receptacle



MHF I SMA ADAPTER
PART NO. 90193-002



MHF I RECEPTACLE HIGH CYCLE N45 C ADAPTER
PART NO. 90575-0001

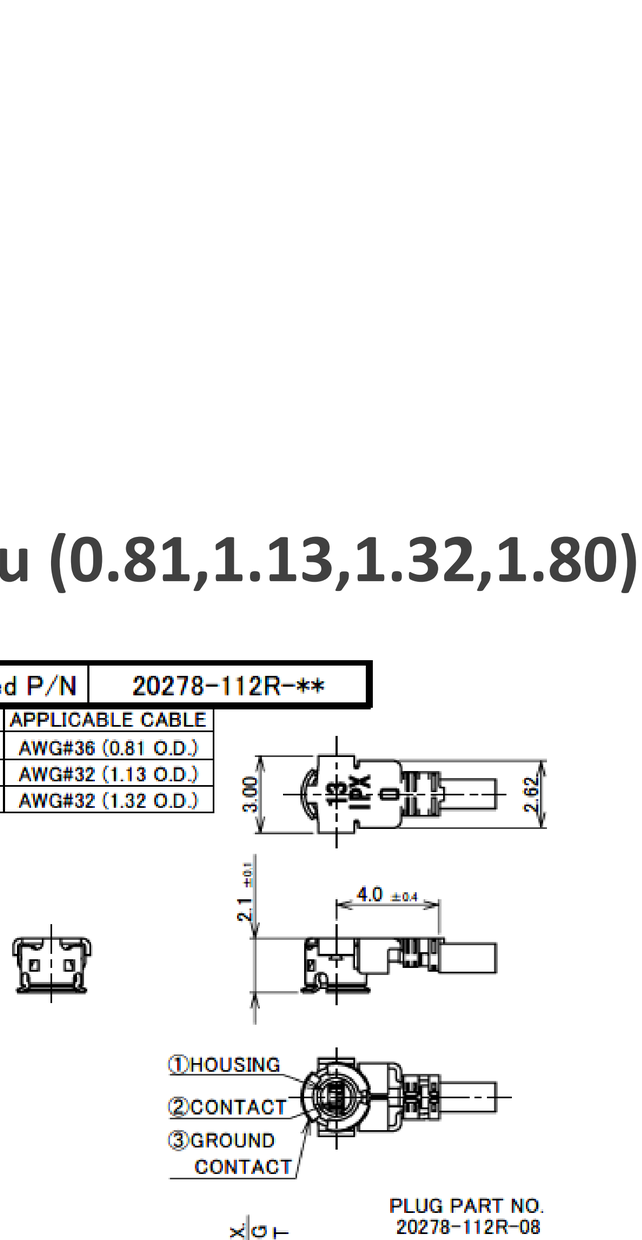


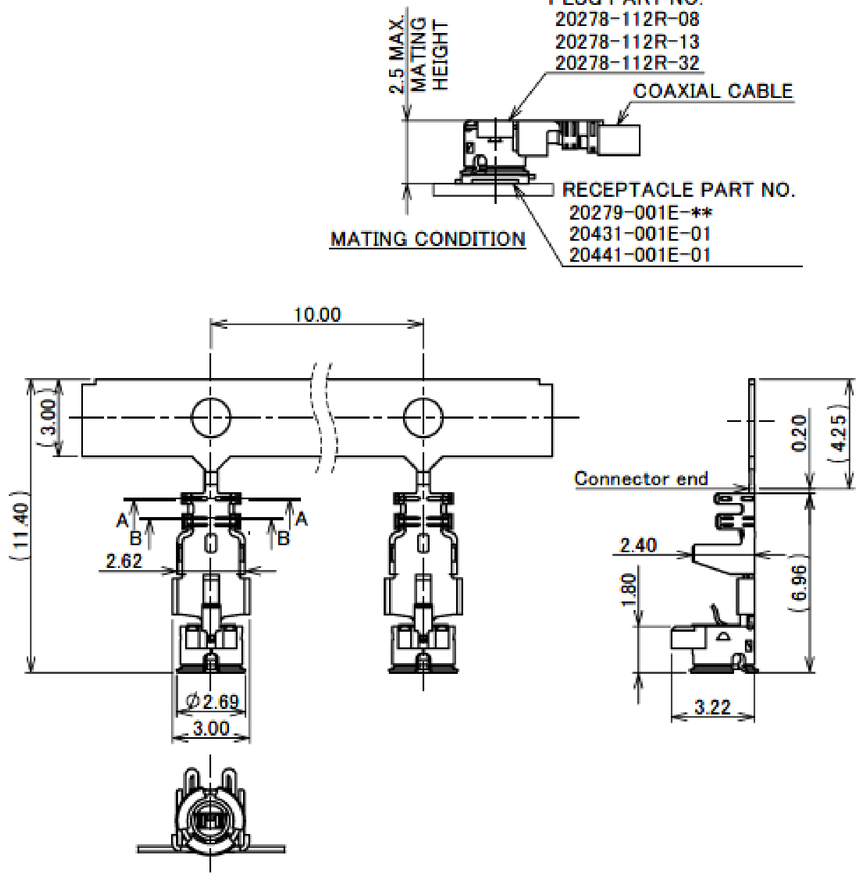
MHF SERIES N45 C TO SMA ADAPTER CABLE
PART NO. 90577-****

* 90575-0001 AND 90577-**** SHOULD BE USED TOGETHER.

MHF® I plug Au (0.81,1.13,1.32,1.80)

Recommended P/N	20278-112R-**
PART No.	APPLICABLE CABLE
20278-112R-08	AWG#36 (0.81 O.D.)
20278-112R-13	AWG#32 (1.13 O.D.)
20278-112R-32	AWG#32 (1.32 O.D.)





Halogen Free

RoHS Compliant

NOTES
1. APPLICABLE CONNECTOR:
   20279-001E-**, 20431-001E-01, 20441-001E-01
2. PERMISSIBLE LOAD OF CABLE AT MATING
3. SUGGESTIONS FOR MATING & UNMATING OPERATION.
3-1. MATING
   PLEASE MATE THE CONNECTOR STRAIGHTLY TO VERTICAL DIRECTION AS MUCH AS POSSIBLE, ADJUSTING THE MATING AXIS OF PLUG AND RECEPTACLE. AS EXCESSIVE SLANT ANGLE MATING MAY BREAK THE CONNECTOR, PLEASE DON'T DO IT.
3-2. UNMATING
3-2-1. IN CASE OF UNMATING BY PULLING TOOL
   PLEASE USE THE PULLING TOOL AS THE FOLLOWING DRAWING, AND please PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.
3-2-2. IN CASE OF UNMATING DIRECTLY BY HAND
   PLEASE CATCH THE CATCHING AREA OF PLUG, AND PLEASE PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.
3-3. CRIMP OVER STANDARDS OF OUTER CONDUCTOR
   STANDARDS: LESS THAN 10% FROM TOTAL NUMBERS OF OUTER CONDUCTOR.
   (NUMBERS OF OUTER CONDUCTOR'S CRIMP OVER FROM OUTER CONDUCTOR'S BARREL)
3-4. CAUTION ABOUT HEAT SHRINKAGE TUBES
   PLEASE BE CAREFUL NOT TO MELT HOUSING WHEN USING HEAT SHRINKAGE TUBES. IT WILL BECOME CAUSE OPEN CIRCUIT.
4. THIS IS "Pb-FREE" CONNECTOR.

NOTE 2.

NOTE 3-2-1.

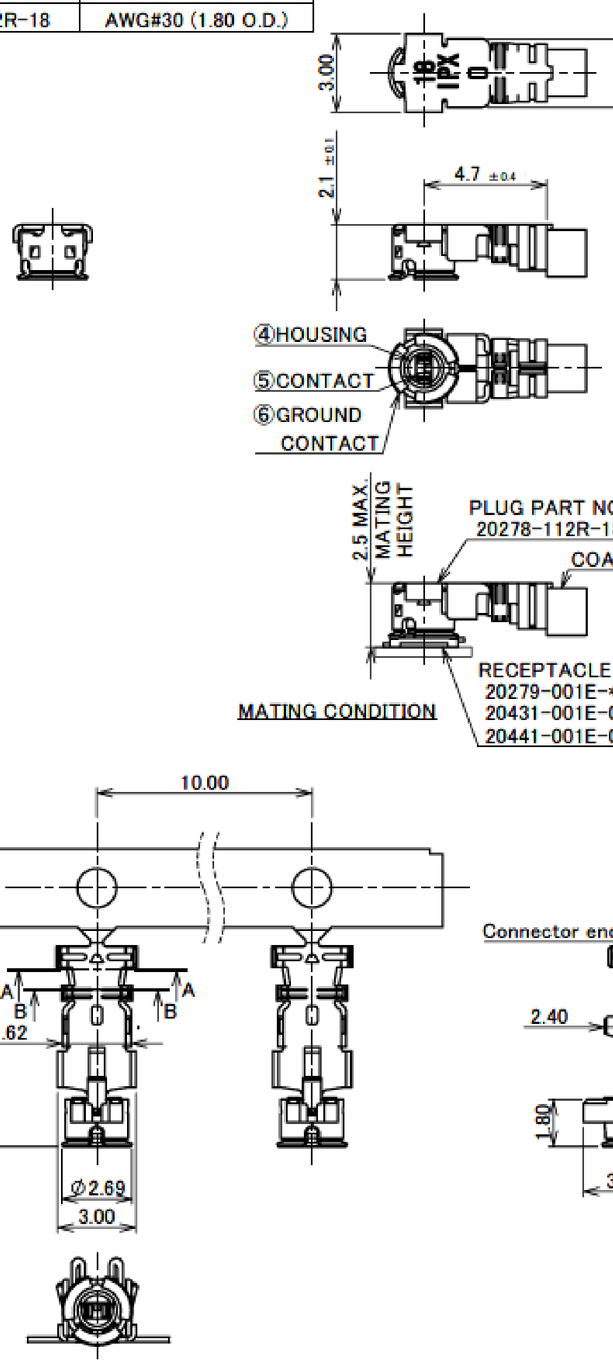
NOTE 3-2-2.

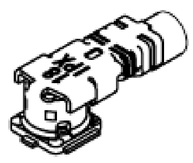


NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS
3	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00μm MIN. CONTACT PART Au 0.05μm MIN.
2	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00μm MIN. CONTACT PART Au 0.10μm MIN.
1	HOUSING	PBT	UL94V-0, 20278-112R-08: WHITE 20278-112R-13, -32: BLACK

MHF® I plug Au (0.81,1.13,1.32,1.80)

Recommended P/N	20278-112R-**
PART No.	APPLICABLE CABLE
20278-112R-18	AWG#30 (1.80 O.D.)



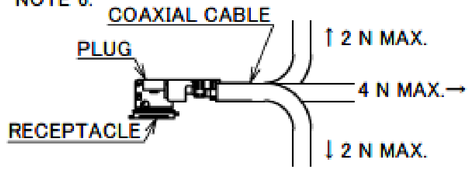


Halogen Free

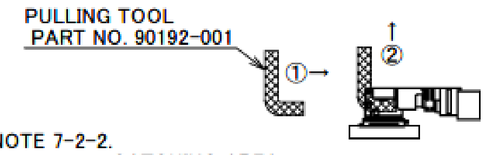
RoHS Compliant

NOTES
5. APPLICABLE CONNECTOR:
20279-001E-**, 20431-001E-01, 20441-001E-01
6. PERMISSIBLE LOAD OF CABLE AT MATING
7. SUGGESTIONS FOR MATING & UNMATING OPERATION.
7-1. MATING
PLEASE MATE THE CONNECTOR STRAIGHTLY TO VERTICAL DIRECTION AS MUCH AS POSSIBLE, ADJUSTING THE MATING AXIS OF PLUG AND RECEPTACLE. AS EXCESSIVE SLANT ANGLE MATING MAY BREAK THE CONNECTOR, PLEASE DON'T DO IT.
7-2. UNMATING
7-2-1. IN CASE OF UNMATING BY PULLING TOOL
PLEASE USE THE PULLING TOOL AS THE FOLLOWING DRAWING, AND please PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.
7-2-2. IN CASE OF UNMATING DIRECTLY BY HAND
PLEASE CATCH THE CATCHING AREA OF PLUG, AND PLEASE PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.
7-3. CRIMP OVER STANDARDS OF OUTER CONDUCTOR
STANDARDS: LESS THAN 10% FROM TOTAL NUMBERS OF OUTER CONDUCTOR.
(NUMBERS OF OUTER CONDUCTOR'S CRIMP OVER FROM OUTER CONDUCTOR'S BARREL)
7-4. CAUTION ABOUT HEAT SHRINKAGE TUBES
PLEASE BE CAREFUL NOT TO MELT HOUSING WHEN USING HEAT SHRINKAGE TUBES. IT WILL BECOME CAUSE OPEN CIRCUIT.
8. THIS IS "Pb-FREE" CONNECTOR.

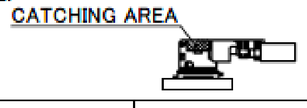
NOTE 6.



NOTE 7-2-1.



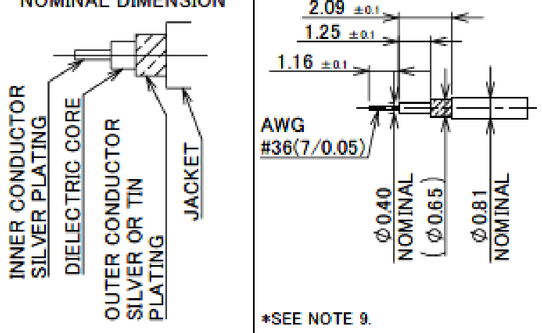
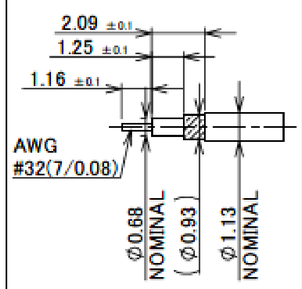
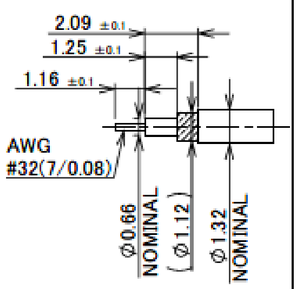
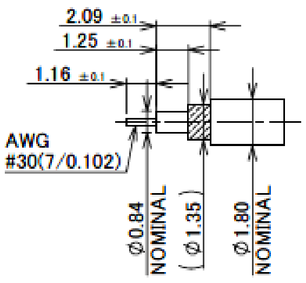
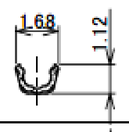
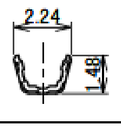
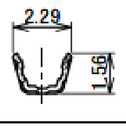
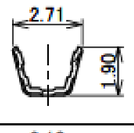
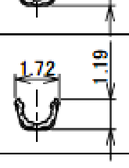
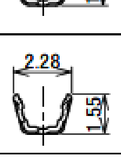
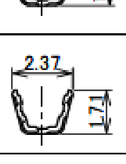
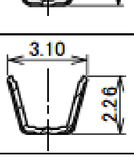
NOTE 7-2-2.



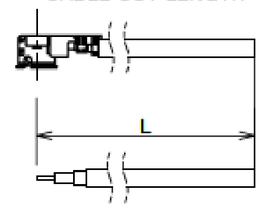
6	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. CONTACT PART Au 0.05 μm MIN.
5	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. CONTACT PART Au 0.10 μm MIN.
4	HOUSING	PBT	UL94V-0, WHITE

Rev.32

Recommended P/N	20278-112R-**

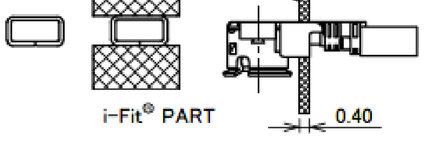
PART NO.		20278-112R-08	20278-112R-13	20278-112R-32	20278-112R-18
APPLICABLE CABLE NOMINAL DIMENSION					
BRAIDED SHIELD OF OUTER CONDUCTOR		SINGLE	SINGLE	DOUBLE	SINGLE
PART NO. OF SEMI AUTO TERMINATION MACHINE		90213-008C	90213-013C	90213-032C	90232-018
SECT. B-B					
SECT. A-A					
CRIMP HEIGHT	CH-1	1.34～1.40	1.34～1.40	1.34～1.40	1.34～1.40
	CH-2	0.76～0.84	1.06～1.14	1.20～1.30	1.41～1.49
	CH-3	0.85～0.97	1.15～1.35	1.26～1.46	1.70～1.80

CABLE CUT LENGTH

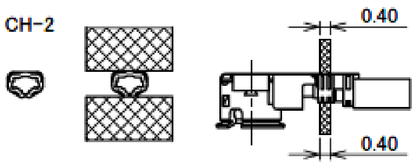


CRIMP HEIGHT
BLADE MICROMETER

CH-1

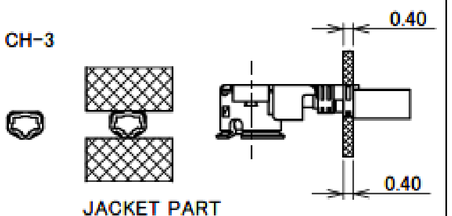


CH-2



OUTER CONDUCTOR PART

CH-3



JACKET PART

NOTE 9. DO NOT USE SOLDER COATED EITHER INNER OR OUTER CONDUCTOR CABLE.

Rev.32

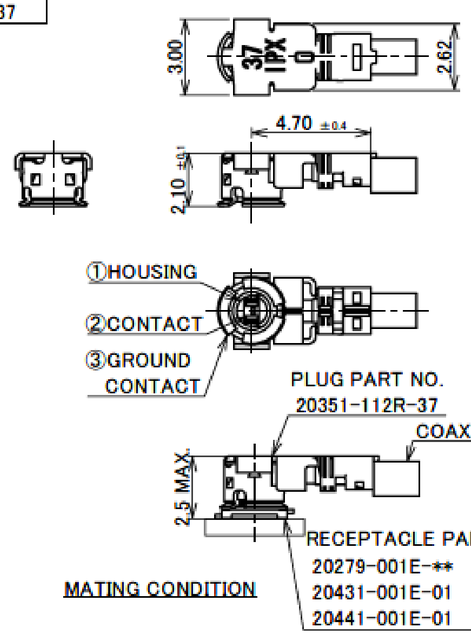
MHF® I plug Au (0.81,1.13,1.32,1.80)

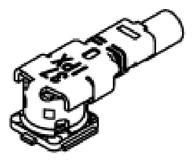
ITEMS	SPECIFICATION	
RECOMMENDED APPLICABLE CONNECTOR PART No.	20279-001E-**	20441-001E-01
RATING VOLTAGE	60 V AC (R.M.S)	
RATING FREQUENCY	DC～9GHz	
OPERATING TEMPERATURE	233～363 K (-40℃～+90℃)	
VSWR (MATED WITH SMA ADAPTER PART No.90193-001)	1.30 MAX. AT 0.1～3 GHz, 1.50 MAX. AT 3～6 GHz, 1.90 MAX. AT 6～9 GHz (0.81 O.D. / 1.13 O.D. / 1.80 O.D.) 1.30 MAX. AT 0.1～3 GHz, 1.50 MAX. AT 3～6 GHz, 1.60 MAX. AT 6～9 GHz (1.32 O.D.)	
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: 25 mohm MAX.	
GROUND CONTACT RESISTANCE	INITIAL: 10 mohm MAX. / AFTER TEST: 15 mohm MAX.	
INSULATION RESISTANCE	INITIAL: 500 Mohm MIN. / AFTER TEST: 100 Mohm MIN.	
DIELECTRIC WITHSTANDING VOLTAGE	200 V AC, 1 MINUTE	
DURABILITY	30 CYCLES	
UNMATING FORCE (INITIAL / AFTER TEST)	5 N MIN. / 3 N MIN.	
CRIMP STRENGTH	20278-112R-08, 20278-112R-13, 20278-112R-32: 10 N MIN. 20278-112R-18: 15 N MIN.	
PRODUCT SPECIFICATION	PRS-1676	
TEST REPORT	TR-12044	
PACKING STANDARD	300-233	
INSTRUCTION MANUAL	HIM-10002	
APPEARANCE CRITERIA No.	QLS-A***	

Rev.32

MHF® I plug Au (1.37)

Recommended P/N	20351-112R-37
PART No.	
20351-112R-37	

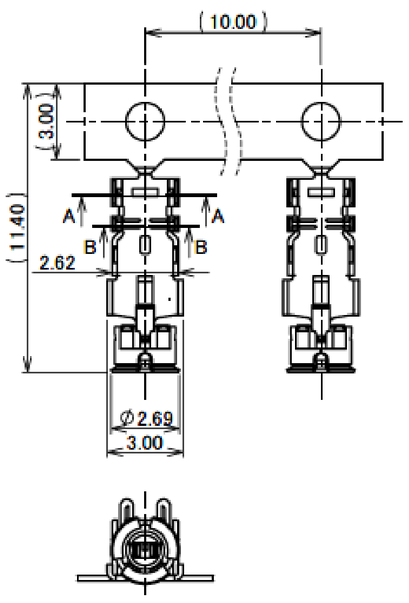


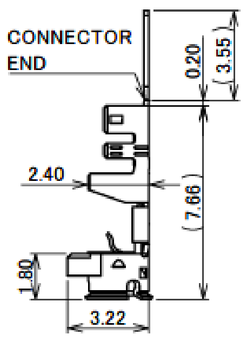


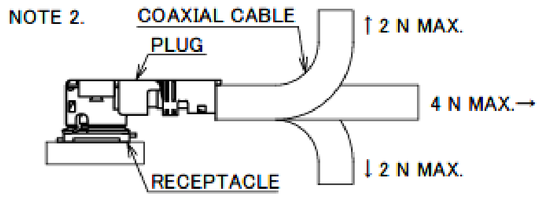
HF Halogen Free

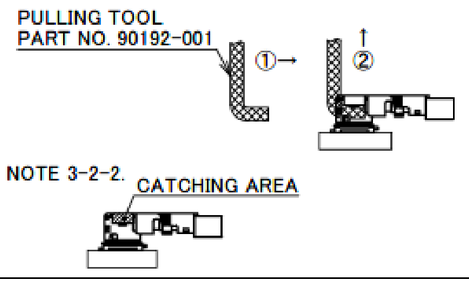
RoHS Compliant

NOTES
1. APPLICABLE CONNECTOR:
   20279-001E-**, 20431-001E-01, 20441-001E-01
2. PERMISSIBLE LOAD OF CABLE AT MATING
3. SUGGESTIONS FOR MATING & UNMATING OPERATION
3-1. MATING
   PLEASE MATE THE CONNECTOR STRAIGHTLY TO VERTICAL DIRECTION AS MUCH AS POSSIBLE, ADJUSTING THE MATING AXIS OF PLUG AND RECEPTACLE. AS EXCESSIVE SLANT ANGLE MATING MAY BREAK THE CONNECTOR, PLEASE DON'T DO IT.
3-2. UNMATING
3-2-1. IN CASE OF UNMATING BY PULLING TOOL
   PLEASE USE THE PULLING TOOL AS THE FOLLOWING DRAWING, AND PLEASE PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.
3-2-2. IN CASE OF UNMATING DIRECTLY BY HAND
   PLEASE CATCH THE CATCHING AREA OF PLUG, AND PLEASE PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.
3-3. CRIMP OVER STANDARDS OF OUTER CONDUCTOR
   STANDARDS: LESS THAN 10% FROM TOTAL NUMBERS OF OUTER CONDUCTOR.
   (NUMBERS OF OUTER CONDUCTOR'S CRIMP OVER FROM OUTER CONDUCTOR'S BARREL)
3-4. CAUTION ABOUT HEAT SHRINKAGE TUBES
   PLEASE BE CAREFUL NOT TO MELT HOUSING WHEN USING HEAT SHRINKAGE TUBES. IT WILL BECOME CAUSE OPEN CIRCUIT.
4. TIP OF CONTACT SHOULD BE RECESSED OF HOUSING AFTER CRIMPED ABOUT MATING AREA.
5. THIS IS "Pb-FREE" CONNECTOR.





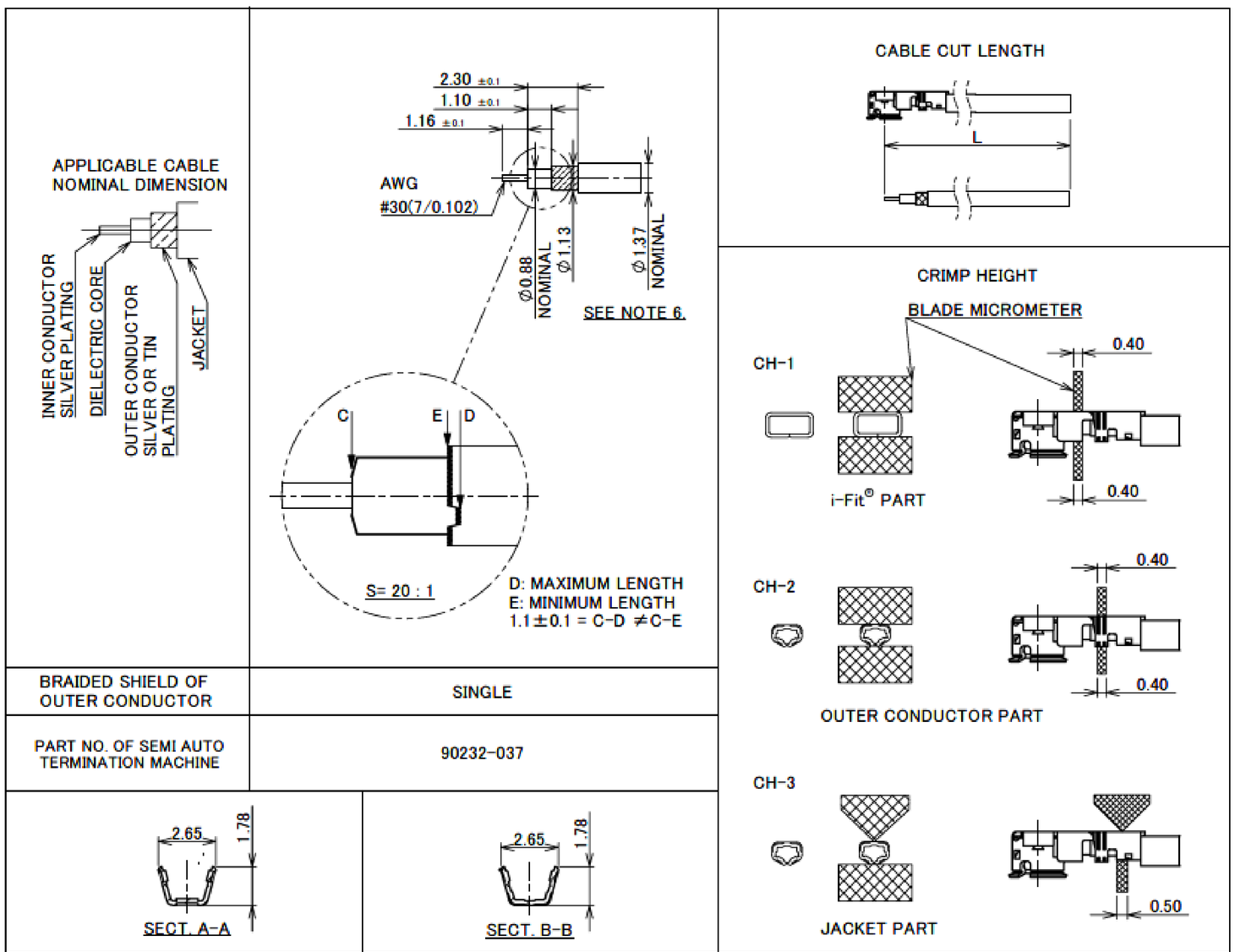




NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS
3	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00μm MIN. CONTACT PART Au 0.05μm MIN.
2	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00μm MIN. CONTACT PART Au 0.10μm MIN.
1	HOUSING	PBT	UL94V-0, WHITE

Rev.20

MHF® I plug Au (1.37)



BRAIDED SHIELD OF OUTER CONDUCTOR	SINGLE	
PART NO. OF SEMI AUTO TERMINATION MACHINE	90232-037	
CRIMP HEIGHT	CH-1	1.34～1.40
	CH-2	1.36～1.42
	CH-3	1.28～1.34

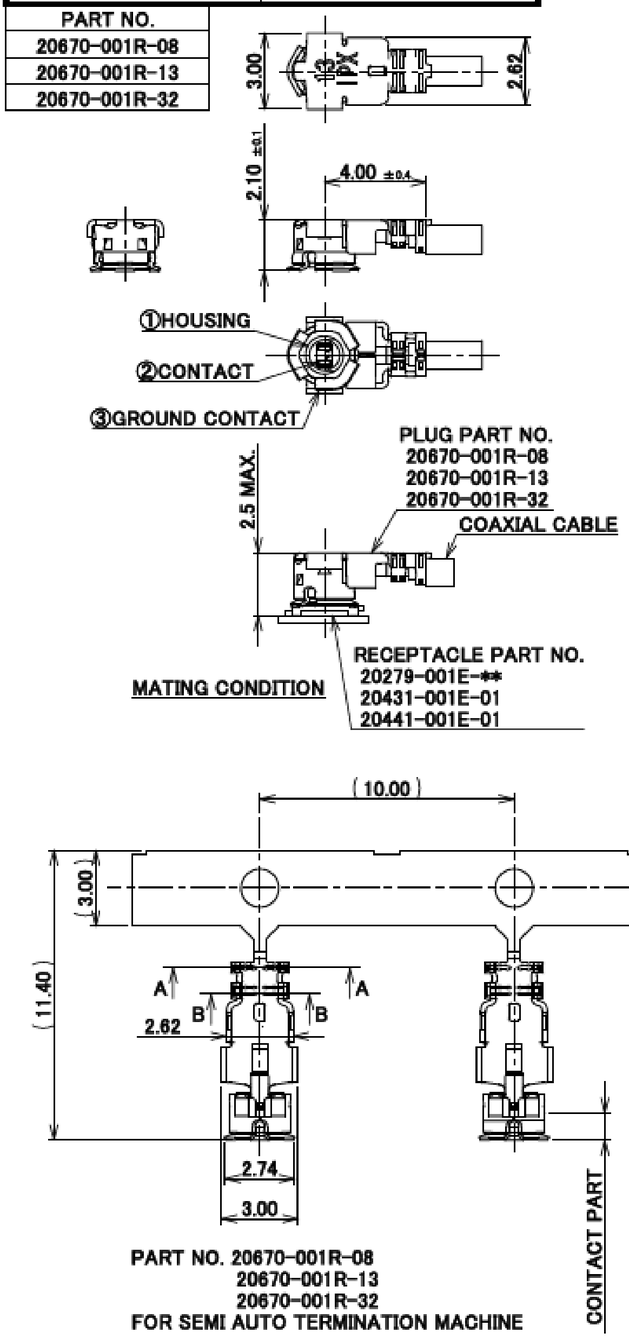
NOTE 6. DO NOT USE SOLDER COATED EITHER INNER OR OUTER CONDUCTOR CABLE.

ITEMS	SPECIFICATION	
RECOMMENDED APPLICABLE CONNECTOR PART No.	20279-001E-**	20441-001E-01
RATING VOLTAGE	60 V AC (R.M.S)	
RATING FREQUENCY	DC～9GHz	
OPERATING TEMPERATURE	233～363 K (-40℃～+90℃)	
VSWR	1.3 MAX. AT 0.1～3 GHz, 1.5 MAX. AT 3～6 GHz, 1.9 MAX. AT 6～9 GHz	
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: 25 mohm MAX.	
GROUND CONTACT RESISTANCE	INITIAL: 10 mohm MAX. / AFTER TEST: 15 mohm MAX.	
INSULATION RESISTANCE	INITIAL: 500 Mohm MIN. / AFTER TEST: 100 Mohm MIN.	
DIELECTRIC WITHSTANDING VOLTAGE	200 V AC, 1 MINUTE	
DURABILITY	30 CYCLES	
UNMATING FORCE (INITIAL / AFTER TEST)	5 N MIN. / 3 N MIN.	
CRIMP STRENGTH	15 N MIN.	
PRODUCT SPECIFICATION	PRS-1726	
TEST REPORT	TR-12096	
PACKING STANDARD	300-233	
INSTRUCTION MANUAL	HIM-10002	
APPEARANCE CRITERIA No.	QLS-A***	

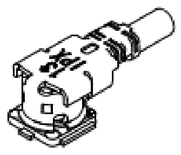
Rev.20

MHF® I plug Ni top (0.81,1.13,1.32,1.37,1.80)

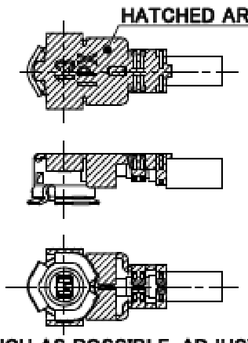
Recommended P/N	20670-001R-**
PART NO.	
20670-001R-08	
20670-001R-13	
20670-001R-32	



PART NO. 20670-001R-08
20670-001R-13
20670-001R-32
FOR SEMI AUTO TERMINATION MACHINE



HATCHED AREA: Ni PLATING AREA

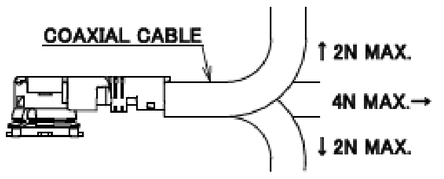


Halogen Free

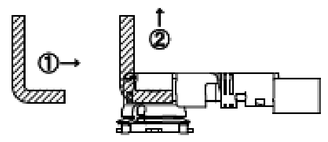
RoHS Compliant

NOTES
1. APPLICABLE CONNECTOR:
   20279-001E-**
   20431-001E-01
   20441-001E-01
2. PERMISSIBLE LOAD OF CABLE AT MATING
3. MATING AND UNMATING INSTRUCTION
3-1. MATING
   MAKE THE CONNECTOR VERTICALY AS MUCH AS POSSIBLE, ADJUSTING THE MATING AXIS OF PLUG AND RECEPTACLE.
3-2. UNMATING
3-2-1. IN CASE OF UNMATING BY PULLING TOOL (PART NO. 90192-001): USE THE PULLING TOOL AS THE FOLLOWING DRAWING, AND PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.
3-2-2. IN CASE OF UNMATING DIRECTLY BY HAND: CATCH THE CATCHING AREA OF PLUG, AND PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.
3-3. CRIMP OVER STANDARDS OF OUTER CONDUCTOR
   STANDARDS: LESS THAN 10% FROM TOTAL NUMBERS OF OUTER CONDUCTOR.
   (NUMBERS OF OUTER CONDUCTOR'S CRIMP OVER FROM OUTER CONDUCTOR'S BARREL)
3-4. CAUTION ABOUT HEAT SHRINKAGE TUBES
   PLEASE BE CAREFUL NOT TO MELT HOUSING WHEN USING HEAT SHRINKAGE TUBES.
   IT WILL CAUSE OPEN CIRCUIT.
4. THIS IS "Pb-FREE" CONNECTOR.

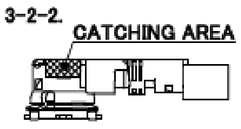
NOTE 2.



NOTE 3-2-1.



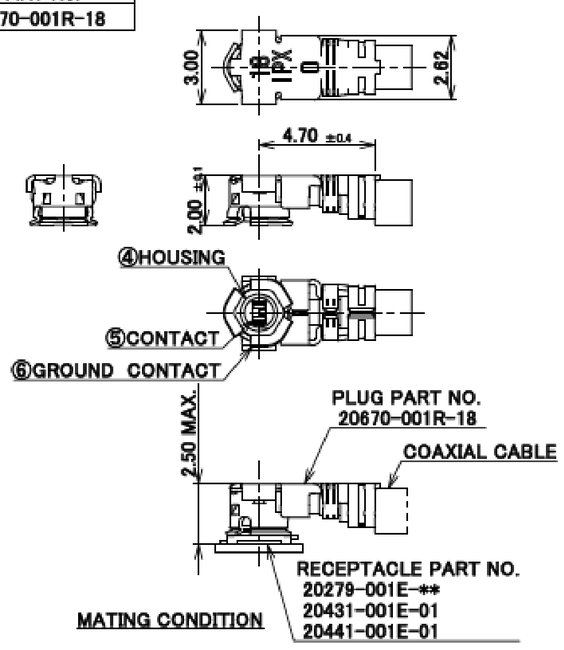
NOTE 3-2-2.



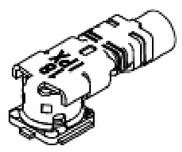
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS
3	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. CONTACT PART Au 0.02 μm MIN. [Ni PLATING AREA] Ni ONLY
2	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. CONTACT PART Au 0.03 μm MIN.
1	HOUSING	PBT	UL94V-0, BLACK

Rev.7

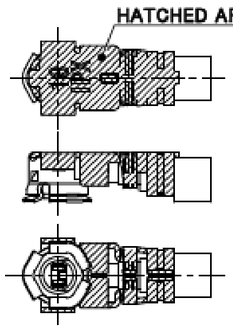
Recommended P/N	20670-001R-**
PART No.	
20670-001R-18	



PART NO. 20670-001R-18
FOR SEMI AUTO TERMINATION MACHINE



HATCHED AREA: Ni PLATING AREA

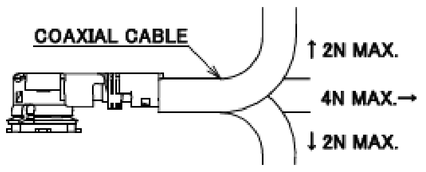


Halogen Free

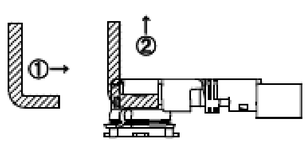
RoHS Compliant

NOTES
5. APPLICABLE CONNECTOR:
   20279-001E-**
   20431-001E-01
   20441-001E-01
6. PERMISSIBLE LOAD OF CABLE AT MATING
7. MATING AND UNMATING INSTRUCTION
7-1. MATING
   MAKE THE CONNECTOR VERTICALY AS MUCH AS POSSIBLE, ADJUSTING THE MATING AXIS OF PLUG AND RECEPTACLE.
7-2. UNMATING
7-2-1. IN CASE OF UNMATING BY PULLING TOOL (PART NO. 90192-001): USE THE PULLING TOOL AS THE FOLLOWING DRAWING, AND PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.
7-2-2. IN CASE OF UNMATING DIRECTLY BY HAND: CATCH THE CATCHING AREA OF PLUG, AND PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.
7-3. CRIMP OVER STANDARDS OF OUTER CONDUCTOR
   STANDARDS: LESS THAN 10% FROM TOTAL NUMBERS OF OUTER CONDUCTOR.
   (NUMBERS OF OUTER CONDUCTOR'S CRIMP OVER FROM OUTER CONDUCTOR'S BARREL)
7-4. CAUTION ABOUT HEAT SHRINKAGE TUBES
   PLEASE BE CAREFUL NOT TO MELT HOUSING WHEN USING HEAT SHRINKAGE TUBES.
   IT WILL CAUSE OPEN CIRCUIT.
8. THIS IS "Pb-FREE" CONNECTOR.

NOTE 6.



NOTE 7-2-1.



NOTE 7-2-2.

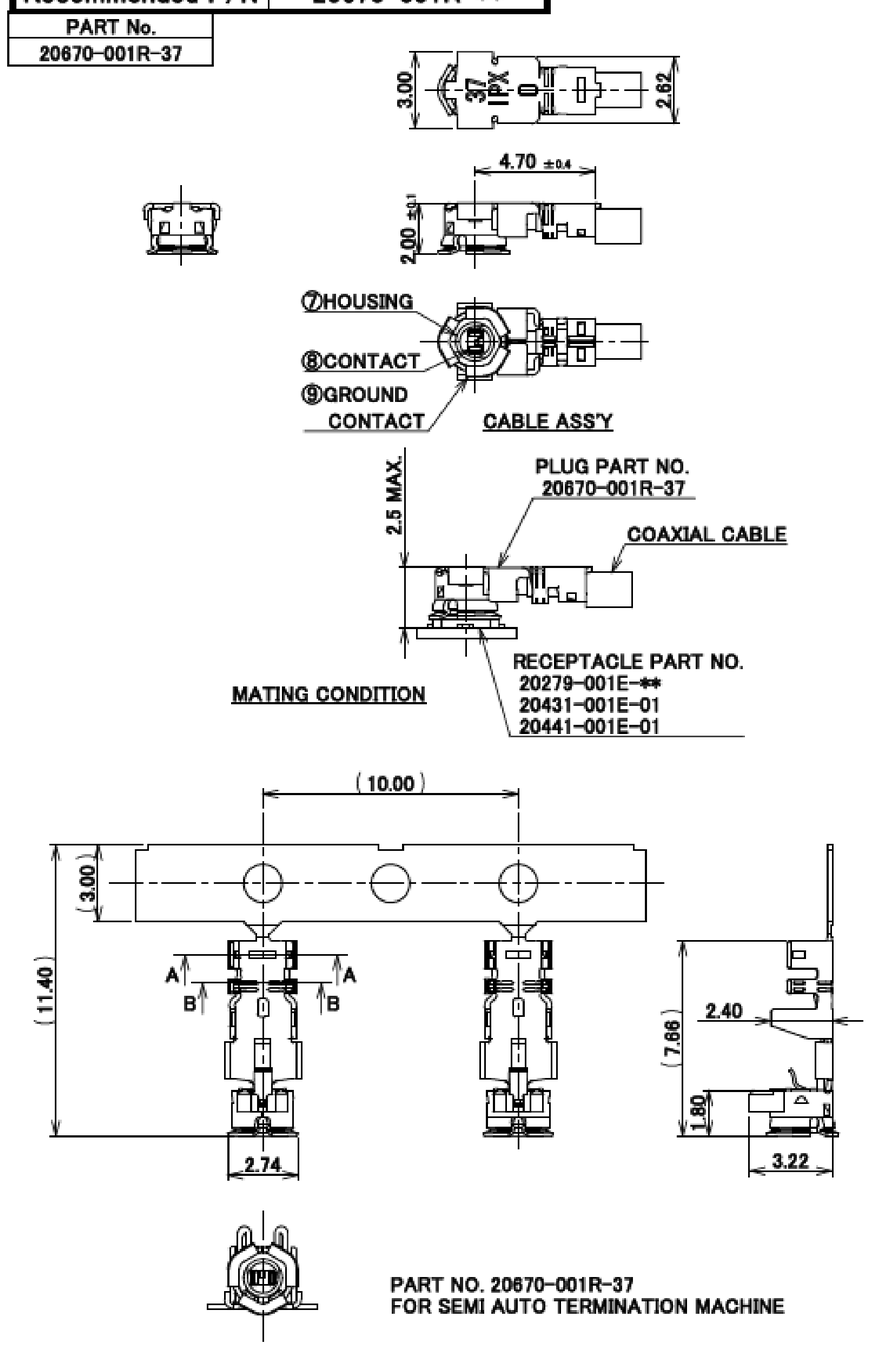


NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS
6	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. CONTACT PART Au 0.02 μm MIN. [Ni PLATING AREA] Ni ONLY
5	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. CONTACT PART Au 0.03 μm MIN.
4	HOUSING	PBT	UL94V-0, BLACK

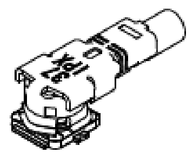
Rev.7

MHF® I plug Ni top (0.81,1.13,1.32,1.37,1.80)

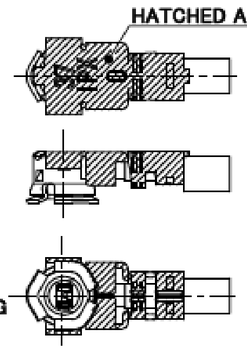
Recommended P/N	20670-001R-**
PART No.	
20670-001R-37	



PART NO. 20670-001R-37
FOR SEMI AUTO TERMINATION MACHINE



HATCHED AREA: Ni PLATING AREA

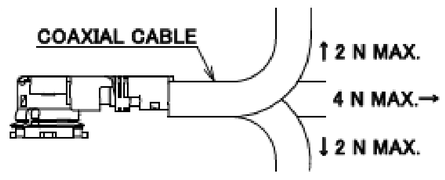


HF Halogen Free

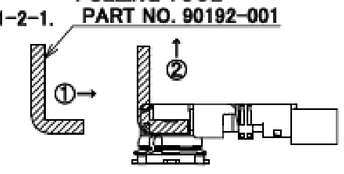
RoHS Compliant

NOTES
9. APPLICABLE CONNECTOR:
   20279-001E-**
   20431-001E-01
   20441-001E-01
10. PERMISSIBLE LOAD OF CABLE AT MATING
11. MATING AND UNMATING INSTRUCTION
11-1. MATING
   MAKE THE CONNECTOR VERTICALY AS MUCH AS POSSIBLE, ADJUSTING THE MATING AXIS OF PLUG AND RECEPTACLE.
11-2. UNMATING
11-2-1. IN CASE OF UNMATING BY PULLING TOOL (PART NO. 90192-001): USE THE PULLING TOOL AS THE FOLLOWING DRAWING, AND PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.
11-2-2. IN CASE OF UNMATING DIRECTLY BY HAND: CATCH THE CATCHING AREA OF PLUG, AND PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.
11-3. CRIMP OVER STANDARDS OF OUTER CONDUCTOR
   STANDARDS: LESS THAN 10% FROM TOTAL NUMBERS OF OUTER CONDUCTOR.
   (NUMBERS OF OUTER CONDUCTOR'S CRIMP OVER FROM OUTER CONDUCTOR'S BARREL)
11-4. CAUTION ABOUT HEAT SHRINKAGE TUBES
   PLEASE BE CAREFUL NOT TO MELT HOUSING WHEN USING HEAT SHRINKAGE TUBES.
   IT WILL CAUSE OPEN CIRCUIT.
12. THIS IS "Pb-FREE" CONNECTOR.

NOTE 10.



NOTE 11-2-1. PULLING TOOL PART NO. 90192-001

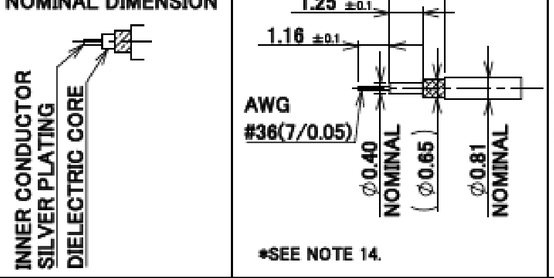
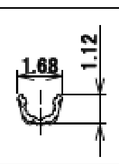
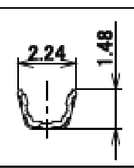
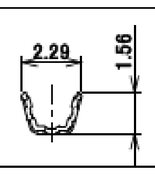
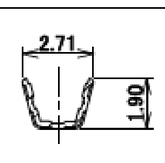
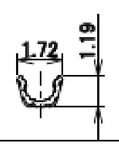
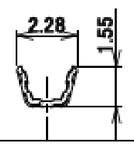
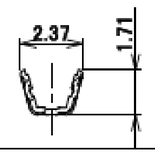
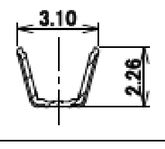


NOTE 11-2-2. CATCHING AREA

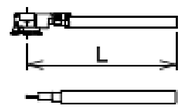


NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS
9	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00μm MIN. CONTACT PART Au 0.02μm MIN. [Ni PLATING AREA] Ni ONLY
8	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00μm MIN. CONTACT PART Au 0.03μm MIN.
7	HOUSING	PBT	UL94V-0, BLACK

Rev.7

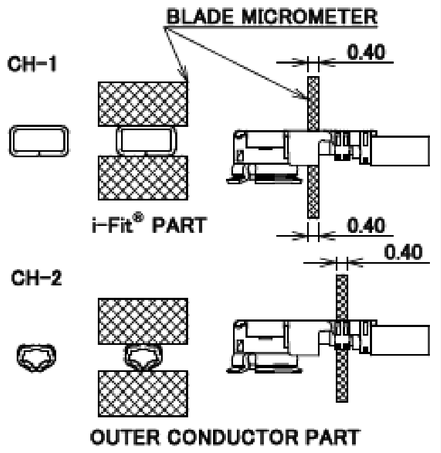
PART NO.		20670-001R-08	20670-001R-13	20670-001R-32	20670-001R-18
APPLICABLE CABLE NOMINAL DIMENSION					
BRAIDED SHIELD OF OUTER CONDUCTOR		SINGLE	SINGLE	DOUBLE	SINGLE
PART NO. OF SEMI AUTO TERMINATION MACHINE		90213-008C	90213-013C	90213-032C	90232-018
SECT. B-B					
SECT. A-A					
CRIMP HEIGHT	CH-1	1.34～1.40	1.34～1.40	1.34～1.40	1.34～1.40
	CH-2	0.76～0.84	1.06～1.14	1.20～1.30	1.41～1.49
	CH-3	0.85～0.97	1.15～1.35	1.26～1.46	1.70～1.80

CABLE CUT LENGTH



CRIMP HEIGHT

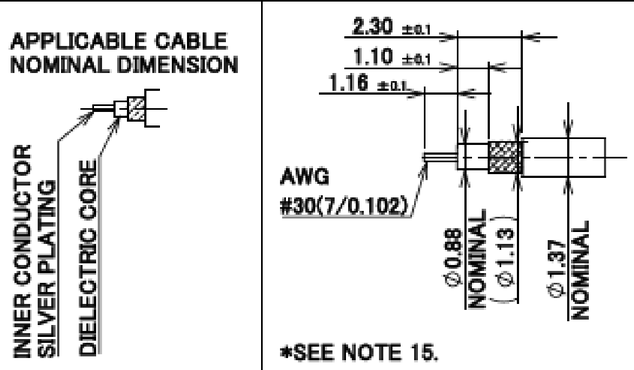
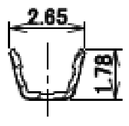
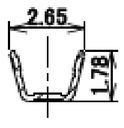
BLADE MICROMETER



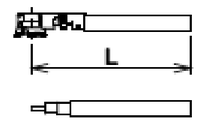
NOTE
13. MUST NOT USE SOLDER COATED INNER CONDUCTOR AND OUTER CONDUCTOR.

Rev.7

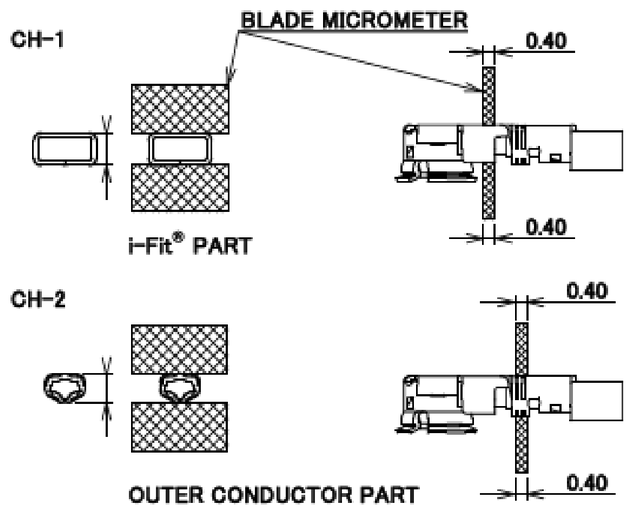
MHF® I plug Ni top (0.81,1.13,1.32,1.37,1.80)

PART NO.		20670-001R-37
APPLICABLE CABLE NOMINAL DIMENSION		 *SEE NOTE 15.
BRAIDED SHIELD OF OUTER CONDUCTOR		SINGLE
PART NO. OF SEMI AUTO TERMINATION MACHINE		90232-037
SECT. B-B		
SECT. A-A		
CRIMP HEIGHT	CH-1	1.34～1.40
	CH-2	1.36～1.42
	CH-3	1.28～1.34

CABLE CUT LENGTH



CRIMP HEIGHT



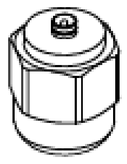
NOTE
14. MUST NOT USE SOLDER COATED INNER CONDUCTOR AND OUTER CONDUCTOR.

Rev.7

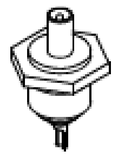
ITEMS	SPECIFICATION
RECOMMENDED APPLICABLE CONNECTOR PART No.	20279-001E-**
RATING VOLTAGE	60 V AC (R.M.S)
RATING FREQUENCY	DC～9GHz
OPERATING TEMPERATURE	233～363 K (-40℃～+90℃)
VSWR (MATED WITH SMA ADAPTER PART No:90193-001)	1.30 MAX. AT 0.1～3 GHz, 1.50 MAX. AT 3～6 GHz, 1.90 MAX. AT 6～9 GHz (0.81 O.D. / 1.13 O.D. / 1.37 O.D. / 1.80 O.D.) 1.30 MAX. AT 0.1～3 GHz, 1.50 MAX. AT 3～6 GHz, 1.60 MAX. AT 6～9 GHz (1.32 O.D.)
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: ⊿R 20 mohm MAX.
GROUND CONTACT RESISTANCE	INITIAL: 20mohm MAX. / AFTER TEST: ⊿R 100 mohm MAX.
INSULATION RESISTANCE	INITIAL: 500 Mohm MIN. / AFTER TEST: 100 Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	200 V AC, 1 MINUTE
DURABILITY	30 CYCLES
UNMATING FORCE (INITIAL / AFTER TEST)	5 N MIN. / 3 N MIN.
CRIMP STRENGTH	20670-001R-08, 20670-001R-13, 20670-001R-32: 10 N MIN. 20670-001R-18, 20670-001R-37: 15 N MIN.
PRODUCT SPECIFICATION	PRS-2105
TEST REPORT	TR-15059
PACKING STANDARD	300-233
INSTRUCTION MANUAL	HIM-10002
APPEARANCE CRITERIA No.	QLS-A***

Rev.7

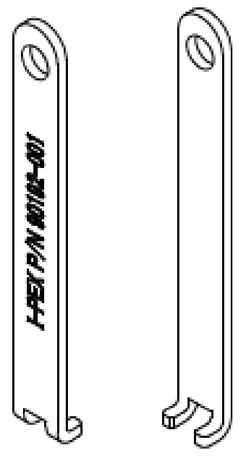
Accessories for MHF® I plug



MHF I/II SMA ADAPTOR
PART NO. 90193-001

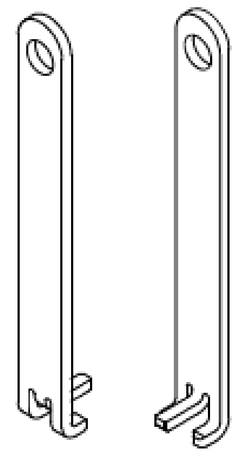


MHF I/II PLUG INSPECTION CONNECTOR
PART NO. 90194-001



FRONT SIDE BACK SIDE

MHF I/II PULLING TOOL
PART NO. 90192-001



FRONT SIDE BACK SIDE

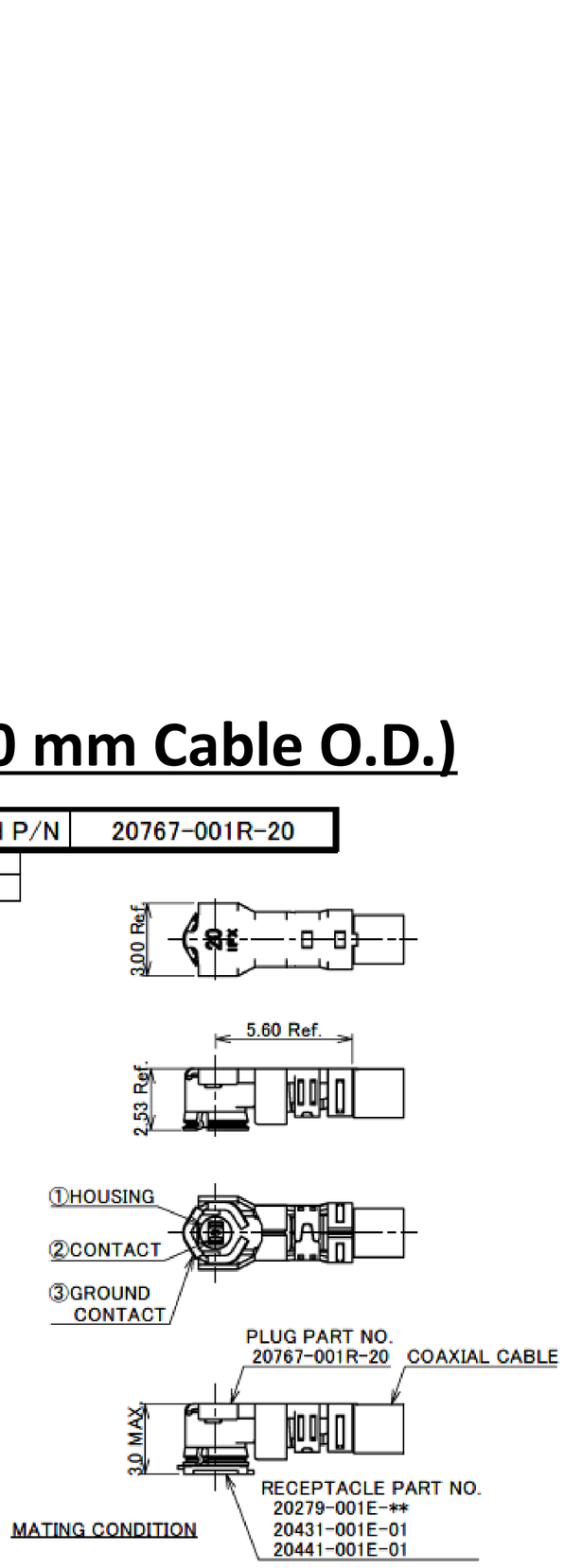
MHF I PUSHING AND PULLING TOOL
PART NO. 90224-001

Rev.7

MHF® I plug (2.0 mm Cable O.D.)

Recommended P/N	20767-001R-20

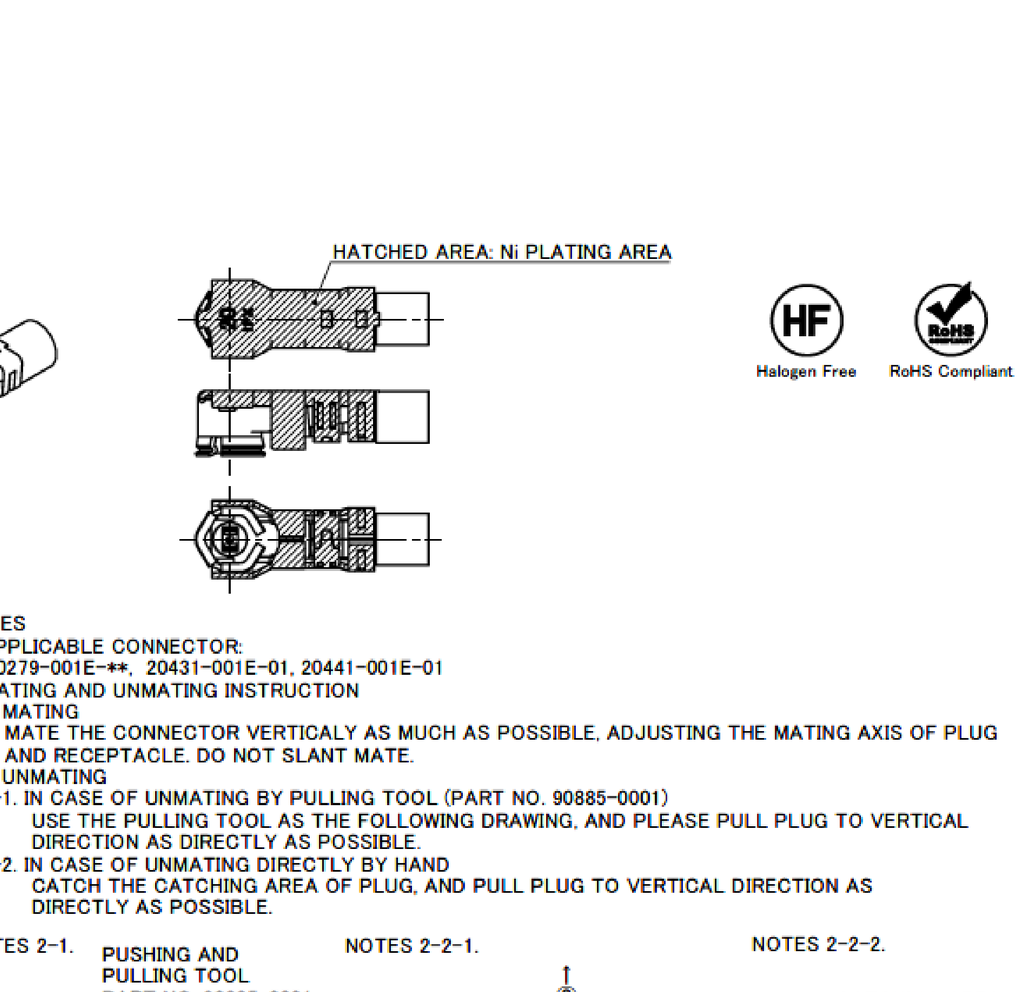
PART No.
20767-001R-20

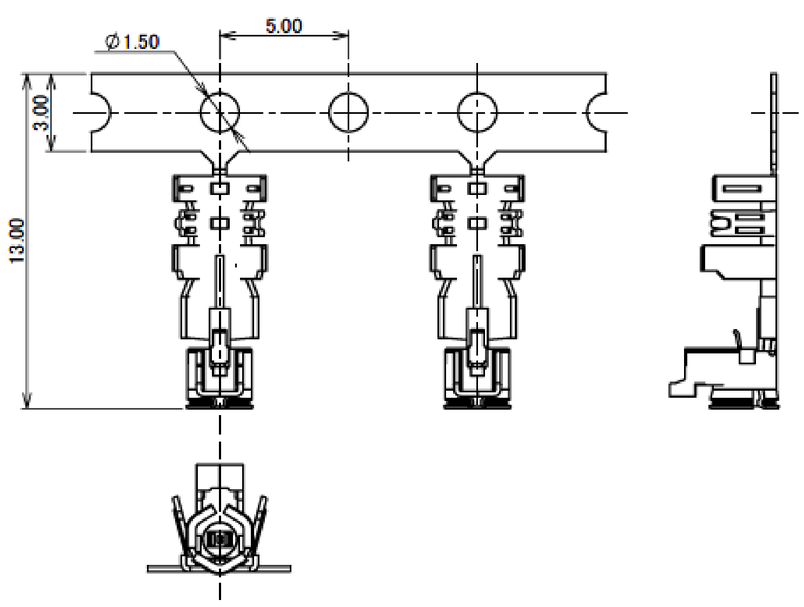


HF Halogen Free

RoHS Compliant

NOTES
1. APPLICABLE CONNECTOR:
20279-001E-**, 20431-001E-01, 20441-001E-01
2. MATING AND UNMATING INSTRUCTION
2-1. MATING
MATE THE CONNECTOR VERTICALY AS MUCH AS POSSIBLE, ADJUSTING THE MATING AXIS OF PLUG AND RECEPTACLE. DO NOT SLANT MATE.
2-2. UNMATING
2-2-1. IN CASE OF UNMATING BY PULLING TOOL (PART NO. 90885-0001)
USE THE PULLING TOOL AS THE FOLLOWING DRAWING, AND PLEASE PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.
2-2-2. IN CASE OF UNMATING DIRECTLY BY HAND
CATCH THE CATCHING AREA OF PLUG, AND PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.

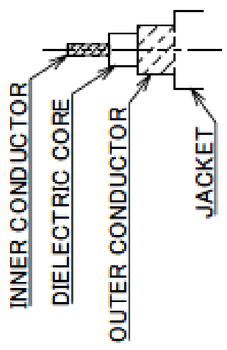
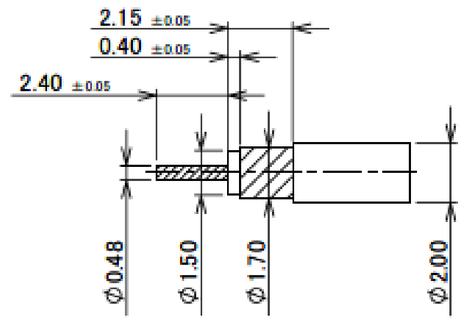
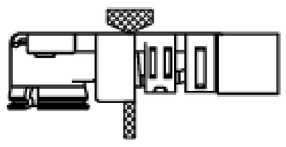
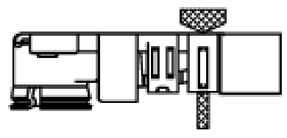




NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS
3	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00μm MIN. CONTACT PART Au 0.05μm MIN.
2	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00μm MIN. CONTACT PART Au 0.10μm MIN.
1	HOUSING	PBT	UL94V-0, BLACK

Rev.5

MHF® I plug (2.0 mm Cable O.D.)

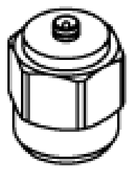
PART NO.	20767-001R-20		
APPLICABLE CABLE NOMINAL DIMENSION 			
BRAIDED SHIELD OF OUTER CONDUCTOR	SINGLE		
PART NO. OF SEMI AUTO TERMINATION MACHINE	90876-020		
CRIMP HEIGHT	CH-1 i-Fit® PART 	CH-2 SHIELD PART 	CH-3 JACKET PART 
	2.28～2.36	1.81～1.87	1.95～2.01

MHF® I plug (2.0 mm Cable O.D.)

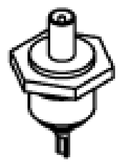
ITEMS	SPECIFICATION	
RECOMMENDED APPLICABLE CONNECTOR PART No.	20279-001E-**	20441-001E-01
RATING VOLTAGE	60 V AC (R.M.S)	
RATING FREQUENCY	DC～9GHz	
OPERATING TEMPERATURE	233～363 K (-40℃～+90℃)	
VSWR (MATED WITH SMA ADAPTER PART No.90193-001)	1.30 MAX. AT 0.1～3 GHz, 1.50 MAX. AT 3～6 GHz, 1.60 MAX. AT 6～9 GHz	
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: ⊿R 20 mohm MAX.	
GROUND CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: ⊿R 100 mohm MAX.	
INSULATION RESISTANCE	INITIAL: 500 Mohm MIN. / AFTER TEST: 100 Mohm MIN.	
DIELECTRIC WITHSTANDING VOLTAGE	200 V AC, 1 MINUTE	
DURABILITY	30 CYCLES	
UNMATING FORCE (INITIAL / AFTER TEST)	5 N MIN. / 3 N MIN.	
CRIMP STRENGTH	15 N MIN.	
PRODUCT SPECIFICATION	PRS-2490	
TEST REPORT	TR-18041	
PACKING STANDARD	PST-16007	
INSTRUCTION MANUAL	HIM-17017	
APPEARANCE CRITERIA No.	QLS-A***	

Rev.5

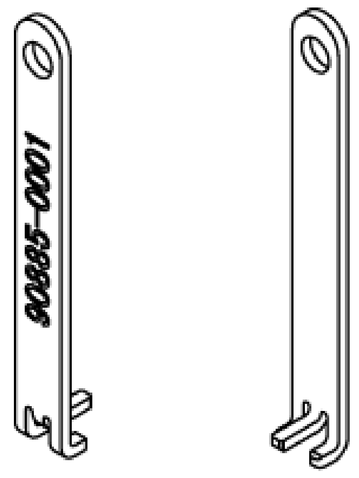
Accessories for MHF® I plug (2.0 mm Cable O.D.)



MHF I/II SMA ADAPTOR
PART NO. 90193-001



MHF I/II PLUG INSPECTION CONNECTOR
PART NO. 90194-001



FRONT SIDE BACK SIDE
MHF I PLUG (2.00) PUSHING AND PULLING TOOL
PART NO. 90885-0001

Rev.5

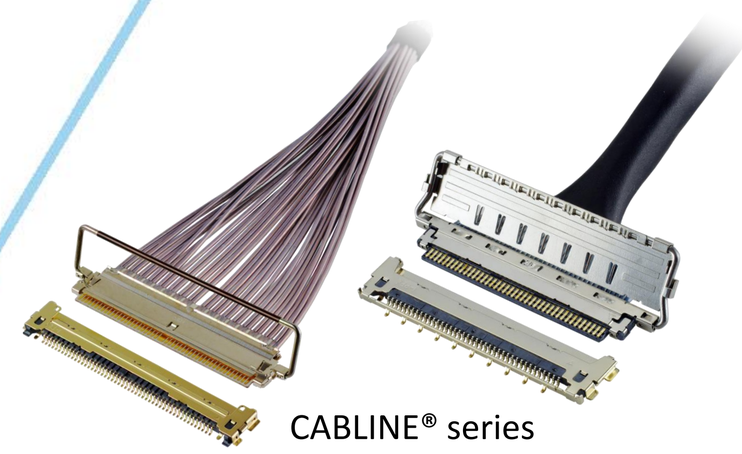
Custom Products Available

RF Connector

MHF® series



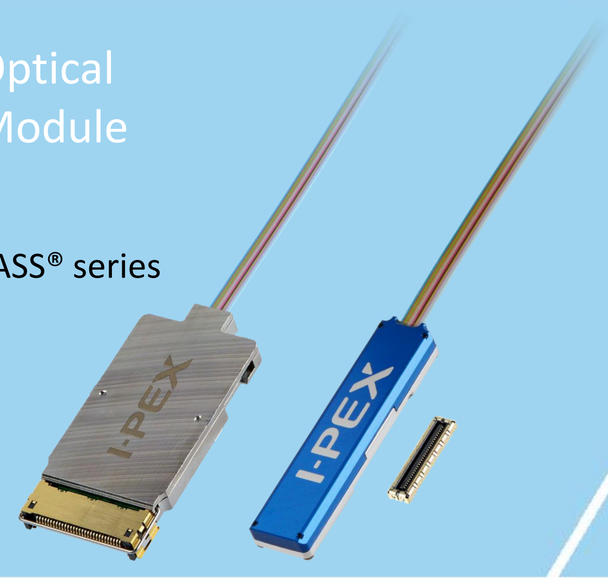
Micro-coaxial/Twinax/ Discrete Wire Connector



CABLINE® series

Optical Module

LIGHTPASS® series



Board-to-Board Connector

NOVASTACK® series



Power Connector/ Terminal

AP series

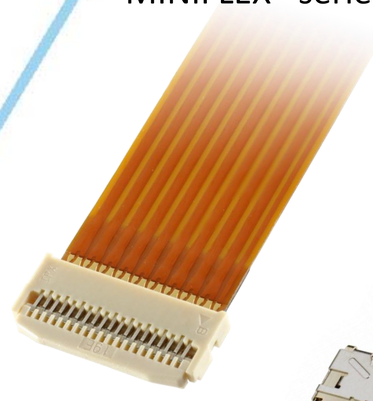


ISH® series

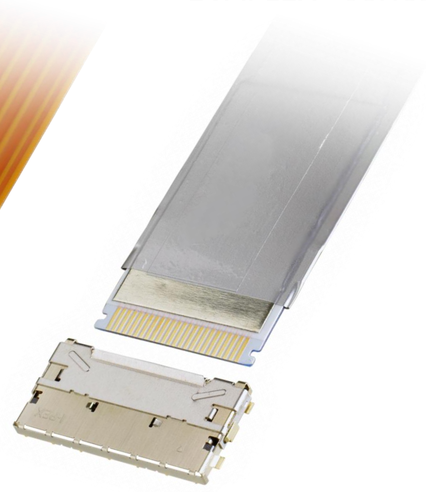


FPC FFC Connector

MINIFLEX® series



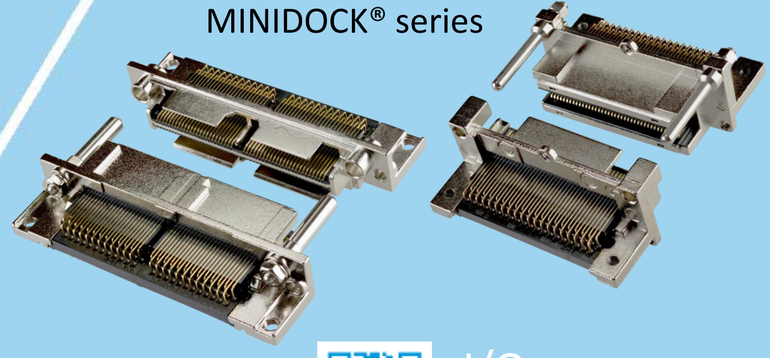
EVAFLEX® series



Inquiry

I/O Connector

MINIDOCK® series



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