

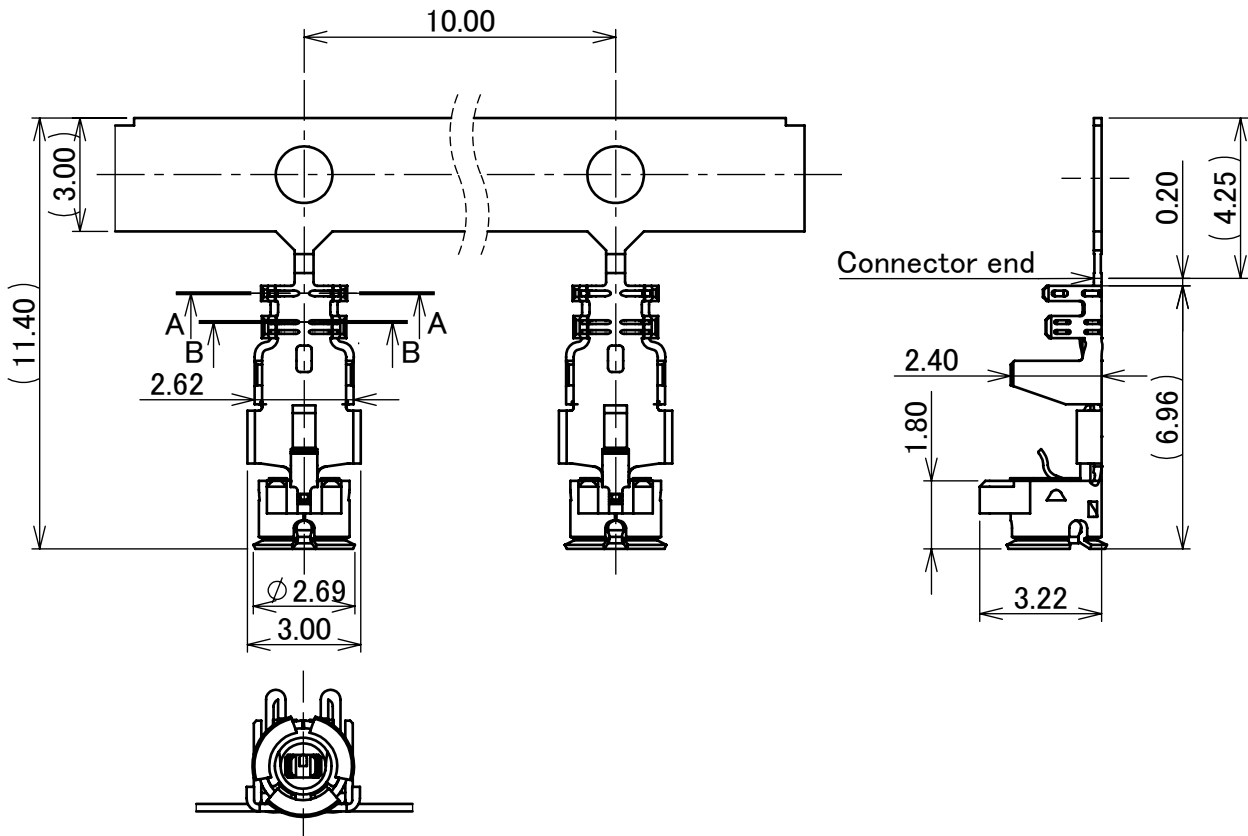
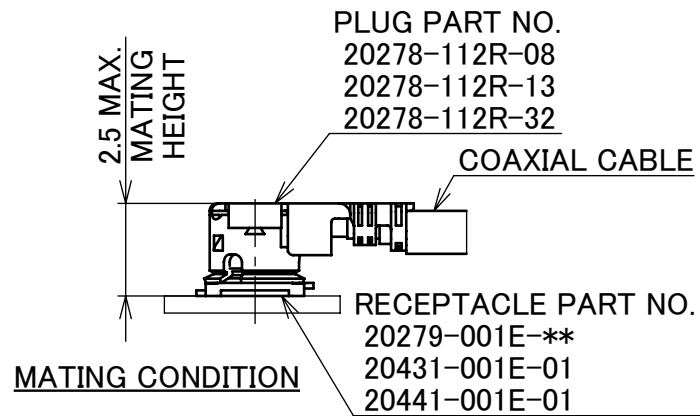
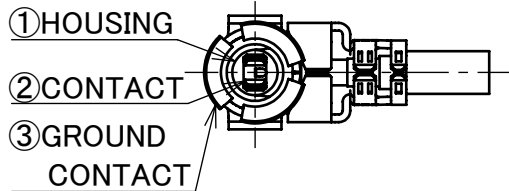
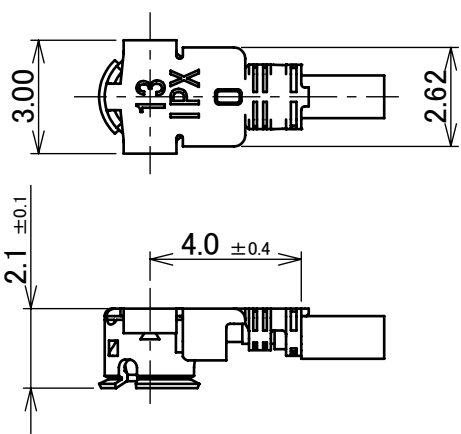
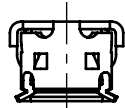
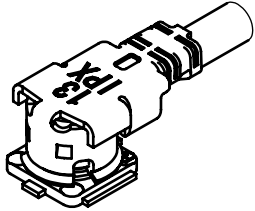
PART No.	APPLICABLE CABLE
20278-112R-08	AWG#36 (0.81 O.D.)
20278-112R-13	AWG#32 (1.13 O.D.)
20278-112R-32	AWG#32 (1.32 O.D.)



Halogen Free



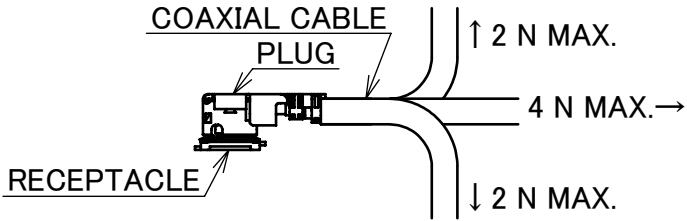
RoHS Compliant



NOTES

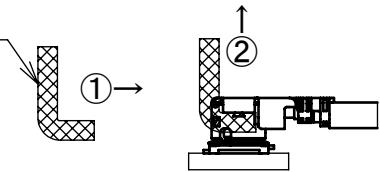
1. APPLICABLE CONNECTOR:
20279-001E-**, 20431-001E-01, 20441-001E-01
2. PERMISSIBLE LOAD OF CABLE AT MATING
3. SUGGESTIONS FOR MATING & UNMATING OPERATION.
 - 3-1. MATING
PLEASE MATE THE CONNECTOR STRAIGHTLY TO VERTICAL DIRECTION AS MUCH AS POSSIBLE, ADJUSTING THE MATING AXIS OF PLUG AND RECEPTACLE. 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.



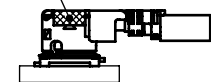
NOTE 3-2-1.

PULLING TOOL
PART NO. 90192-001



NOTE 3-2-2.

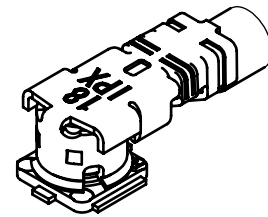
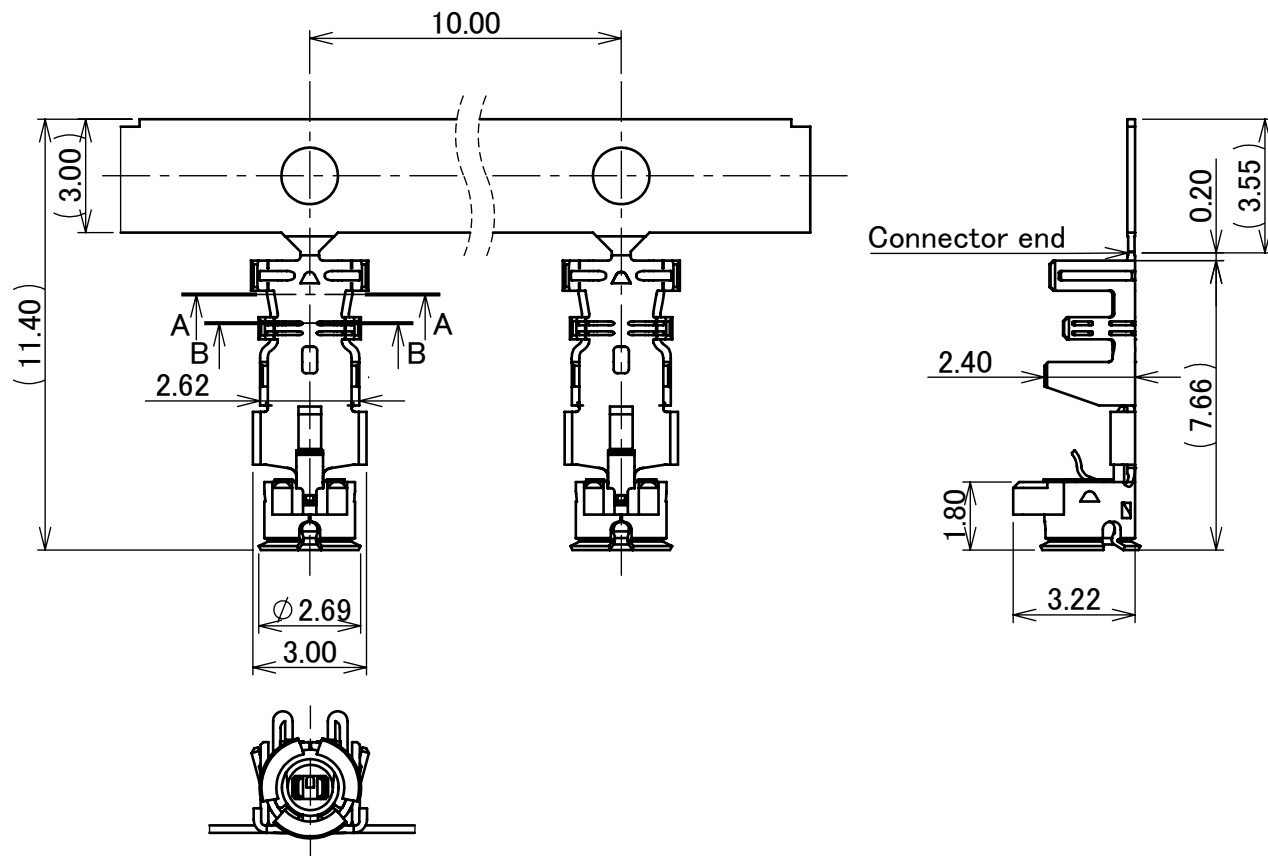
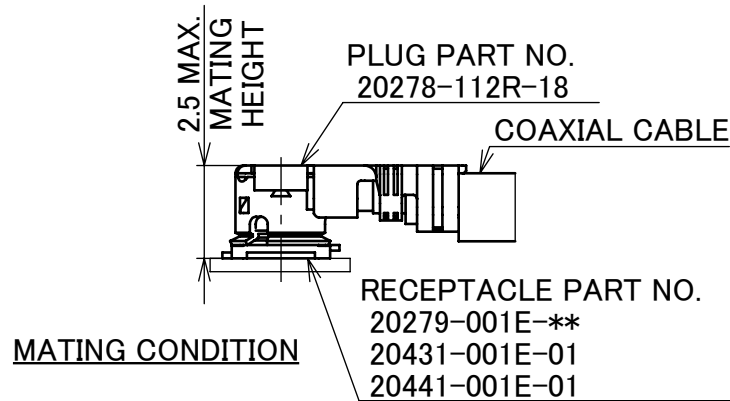
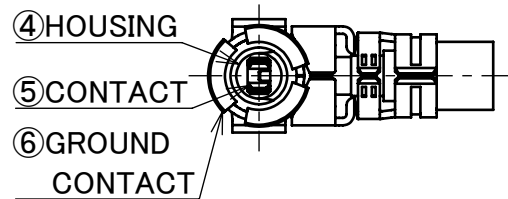
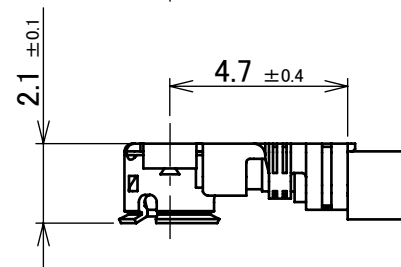
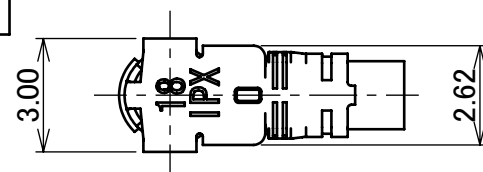
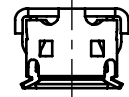
CATCHING AREA



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

31	Z231008	TOI	2023/08/29	Y.H	ANGLE	±2°	6 OVER 30 MAX.	±0.3		PROJECTION	SERIES No. R16	CUSTOMER COPY		
30	Z220594	TSU	2022/05/27	Y.H	6 MAX.	±0.2	30 OVER 120 MAX.	±0.5						
29	Z210168	S.T	2021/02/19	M.T	GENERAL TOLERANCE.				TITLE MHF® I PLUG (Au TYPE)			SCALE	I-PEX	
28	Z200262	TOI	2020/03/05	Y.H	DWG.	DATE						5:1		
27	Z191013	Haji	2019/08/01	Y.S	K.Oobayashi 2001/07/13							UNIT		
26	Z181428	M.N	2018/11/01	Ken	CHK.							mm		
REV.	ECN	BY	DATE	APP.	APP.				DWG. No.	20278	SIZE	SHEET	REV.	
REVISION RECORD					K.Katabuchi							A3	1/6	31

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.

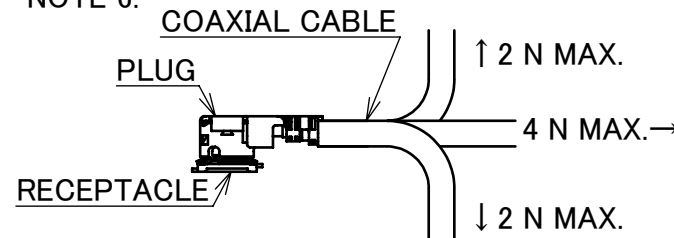
(NUMBERS OF OUTER CONDUCTOR'S CRIMP OVER FROM OUTER CONDUCTOR'S BARREL)

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.

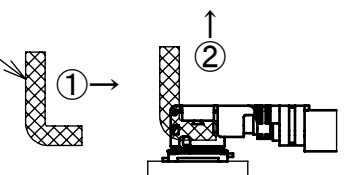
8. THIS IS "Pb-FREE" CONNECTOR.

NOTE 6.



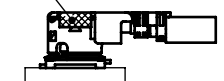
NOTE 7-2-1.

PULLING TOOL
PART NO. 90192-001



NOTE 7-2-2.

CATCHING AREA

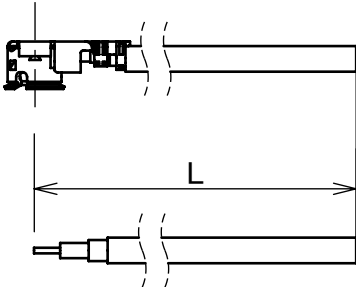
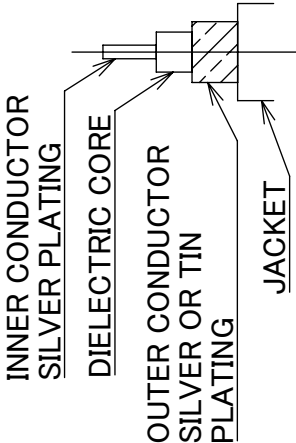
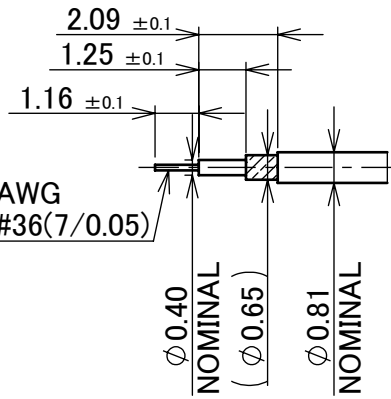
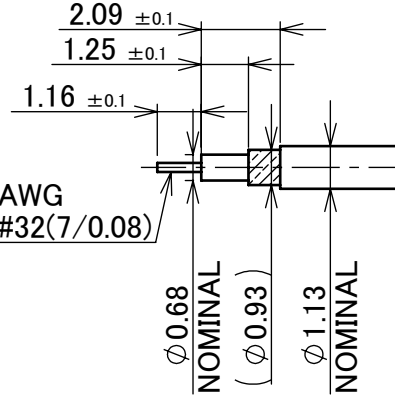
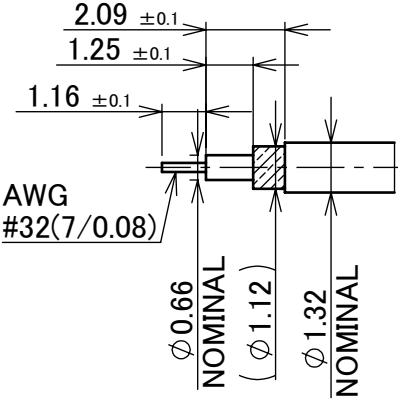
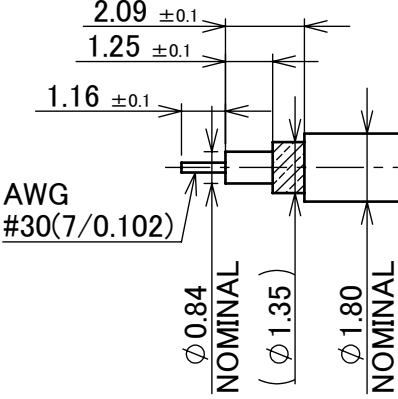
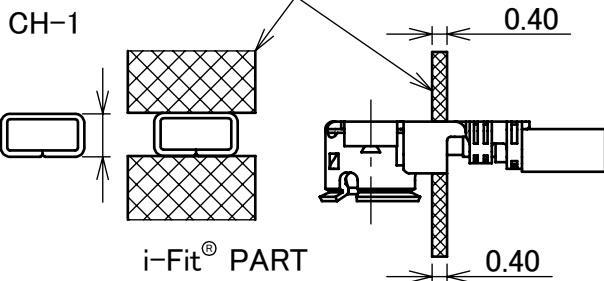
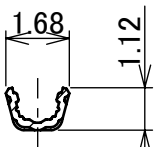
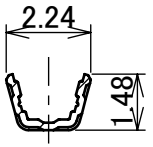
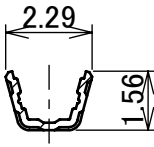
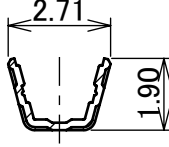
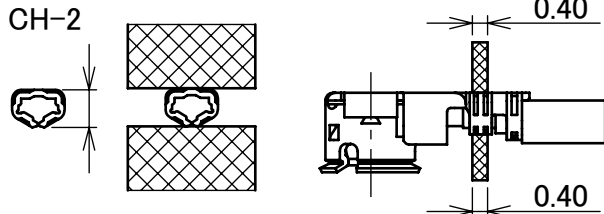
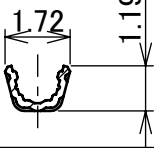
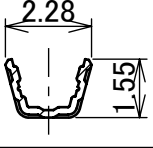
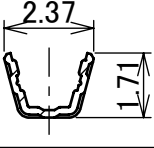
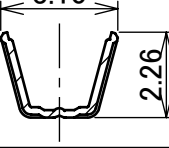
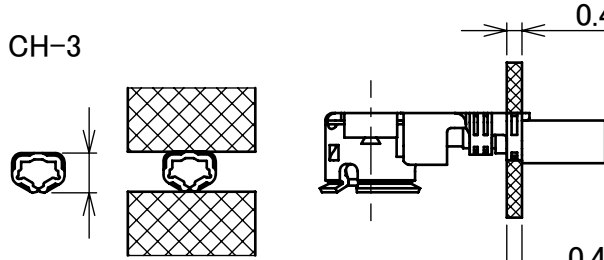
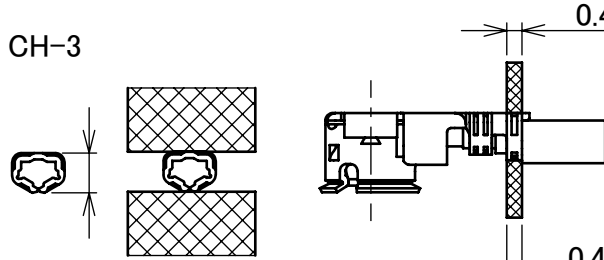


6	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN. CONTACT PART Au 0.05 μ m MIN.
5	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN. CONTACT PART Au 0.10 μ m MIN.
4	HOUSING	PBT	UL94V-0, WHITE
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS

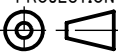
ANGLE	$\pm 2^\circ$	6 OVER 30 MAX.	± 0.3	PROJECTION	SERIES No.	CUSTOMER COPY		
6 MAX.	± 0.2	30 OVER 120 MAX.	± 0.5		R16			
GENERAL TOLERANCE.				TITLE	SCALE		I-PEX	
DWG. DATE				MHF® I PLUG (Au TYPE)	5:1			
CHK.					UNIT			
APP.					mm			
				DWG. No.	20278	SIZE	SHEET	REV.
						A3	2/6	31

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°C~+90°C)
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***

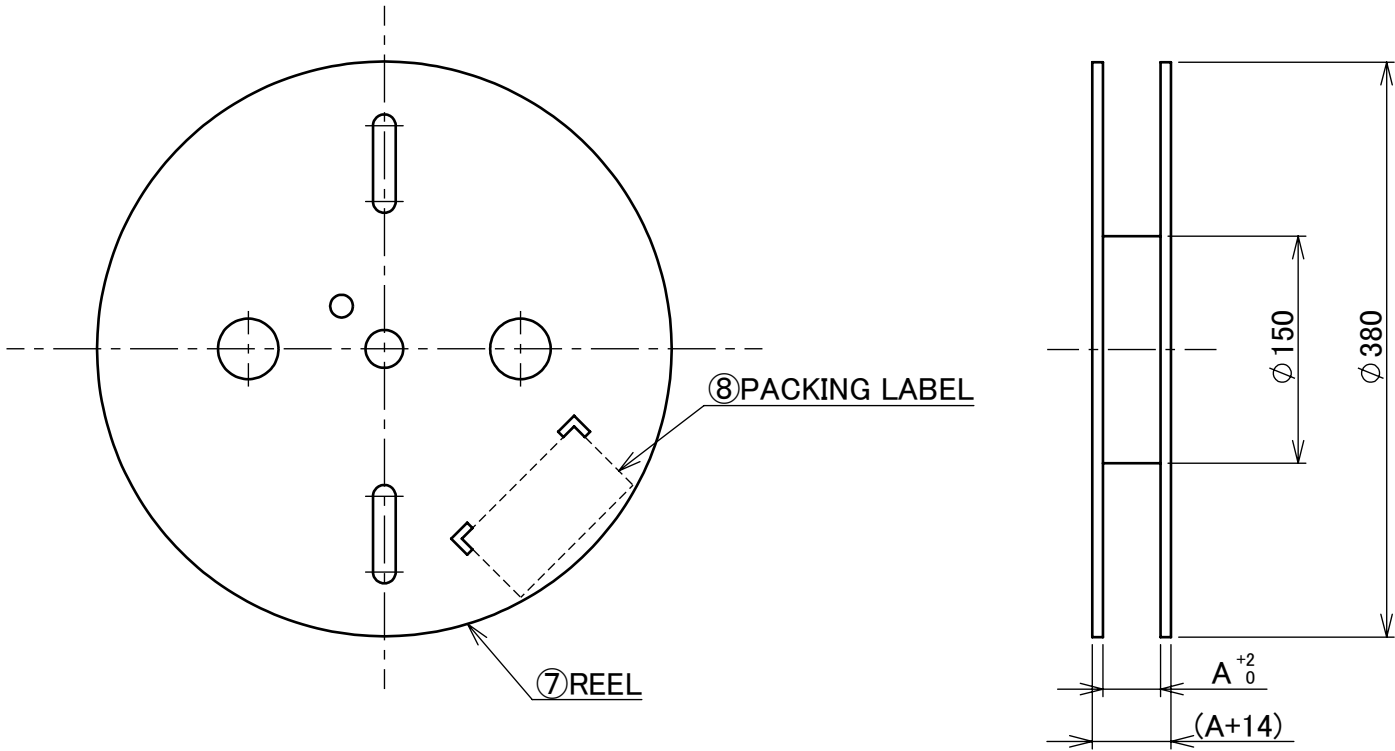
ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R16	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE MHF® I PLUG (Au TYPE)	SCALE — UNIT mm	I-PEX		
DWG.	DATE							
CHK.								
APP.								
				DWG. No.	20278	SIZE A3	SHEET 3/6	REV. 31

PART NO.		20278-112R-08	20278-112R-13	20278-112R-32	20278-112R-18	CABLE CUT LENGTH 	
APPLICABLE CABLE NOMINAL DIMENSION 		 *SEE NOTE 9.				CRIMP HEIGHT BLADE MICROMETER 	
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						CH-2 	
SECT. A-A						OUTER CONDUCTOR PART 	
CRIMP HEIGHT	CH-1	1.34~1.40	1.34~1.40	1.34~1.40	1.34~1.40	JACKET PART 	
	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		

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

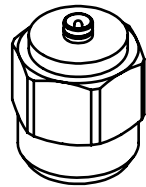
ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R16	CUSTOMER COPY				
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5							
GENERAL TOLERANCE.				TITLE MHF® I PLUG (Au TYPE)		SCALE	I-PEX			
DWG.	DATE					—				
CHK.						UNIT				
APP.						mm				
				DWG. No.	20278	SIZE	SHEET	REV.		
						A3	4/6	31		

PART NO.	A	QTY. PER EMBOSS REEL (PIECES / REEL)	QTY. PER PACKING CARTON (REELS / CARTON)
20278-112R-**-	20.0	2,500 / REEL	5 REELS / CARTON = 12,500 PIECES

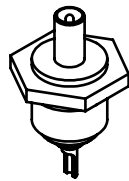


8	PACKING LABEL	-	-
7	REEL	CB	-
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R16	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE MHF® I PLUG (Au TYPE)		SCALE	I-PEX	
DWG.	DATE					—		
CHK.						UNIT		
APP.						mm		
				DWG. No.		SIZE	SHEET	REV.
				20278		A3	5/6	31



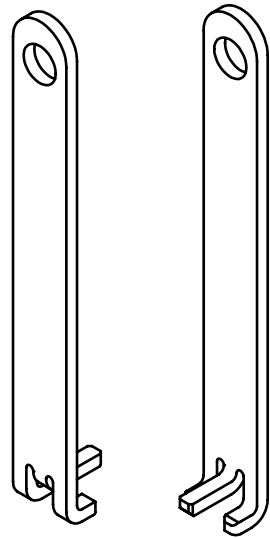
MHF I/II SMA ADAPTOR
PART NO. 90193-001



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

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R16	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE MHF® I PLUG (Au TYPE)		SCALE	I-PEX	
DWG.	DATE					2:1		
CHK.						UNIT		
APP.						mm		
				DWG. No.	20278	SIZE	SHEET	REV.
						A3	6/6	31