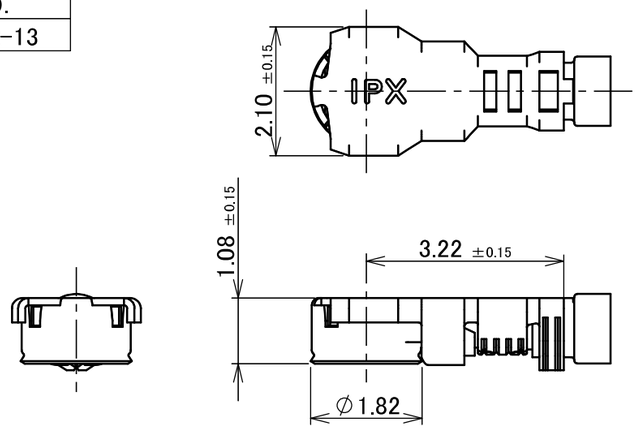
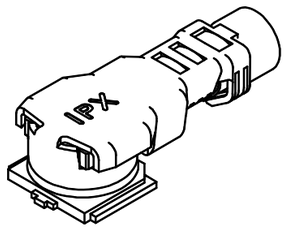
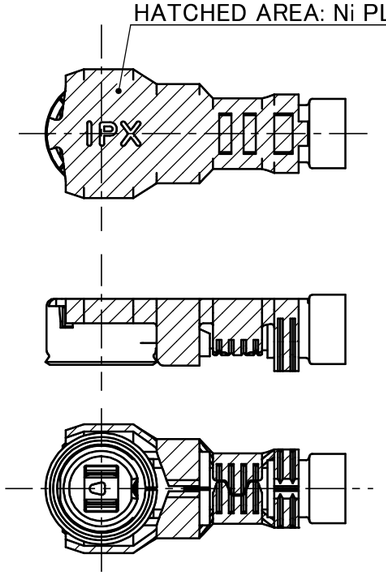
Recommended P/N	20565-001R-13

PART NO.
20565-001R-13



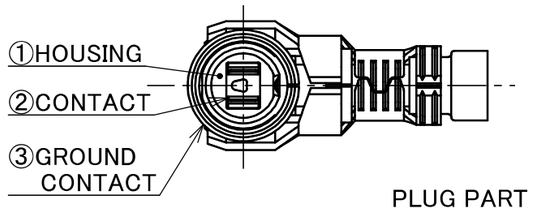


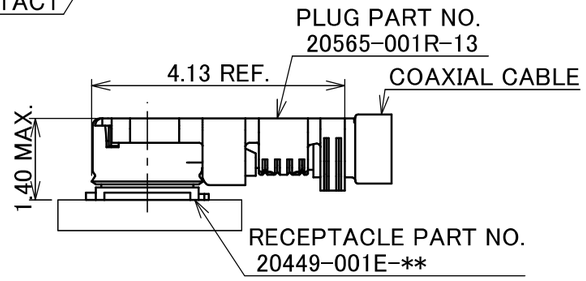
HATCHED AREA: Ni PLATING AREA



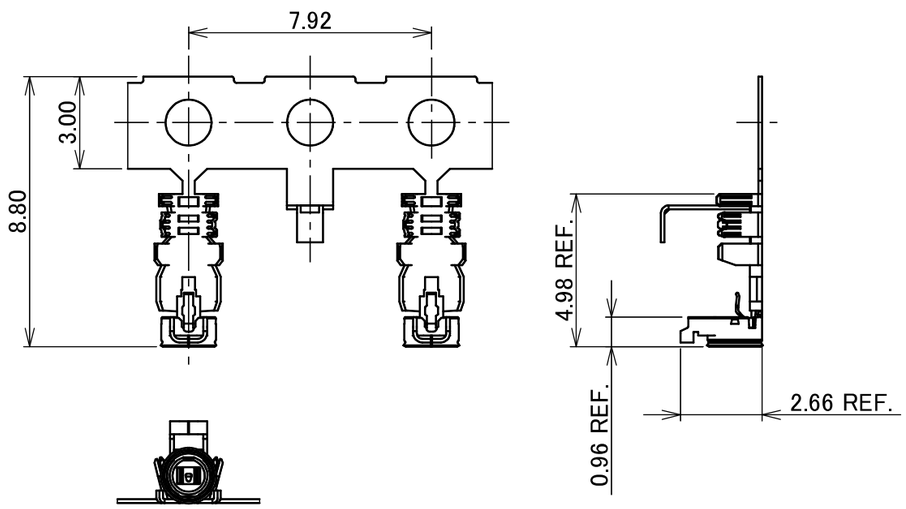
HF
Halogen Free

RoHS COMPLIANT
RoHS Compliant





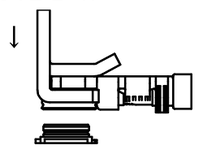
MATING CONDITION



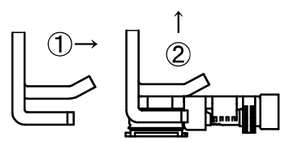
CARRIER CONDITION
S = 5:1

NOTES.
1. APPLICABLE CONNECTOR
   20449-001E-**
   20579-001E-**
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 INSTRUCTION
2-2-1. IN CASE OF UNMATING BY PULLING TOOL (PART NO. 90609-0001)
   USE THE PULLING TOOL AS THE FOLLOWING DRAWING, AND 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.

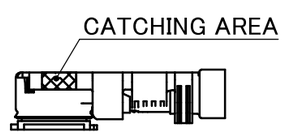
NOTE 2-1.



NOTE 2-2-1.



NOTE 2-2-2.



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

REV.	ECN	BY	DATE	APP.
11	ZC01115	TOI	2026/10/29	Yufu
10	Z220982	TOI	2022/08/30	Y.H
9	Z220756	K.W	2022/07/04	Y.H
8	Z220592	K.W	2022/05/30	Y.H
7	Z201096	TOI	2020/10/21	M.T
6	Z201062	TOI	2020/10/13	M.T

REVISION RECORD

ANGLE	±2°	6 OVER 30 MAX.	±0.3
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5

GENERAL TOLERANCE.

DWG.	DATE
S.Suzuki	2013/08/02
CHK. K.Yotsutani	
APP. T.Takano	

PROJECTION

SERIES No. R8

CUSTOMER COPY

TITLE
MHF® 4L
PLUG Ni TOP
(1.13, 0.95, 0.83)

DWG. No. 20565

SCALE 10:1
UNIT mm
SIZE A3
SHEET 1/7
REV. 11

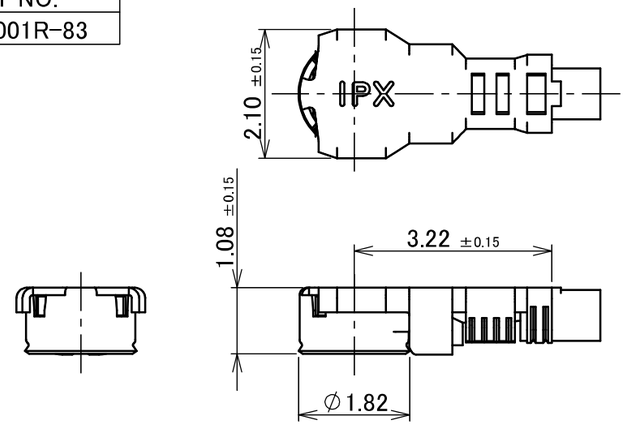
I-PEX

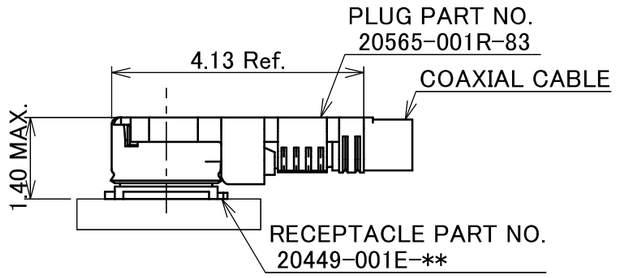
Confidential C

I-PEX Inc.

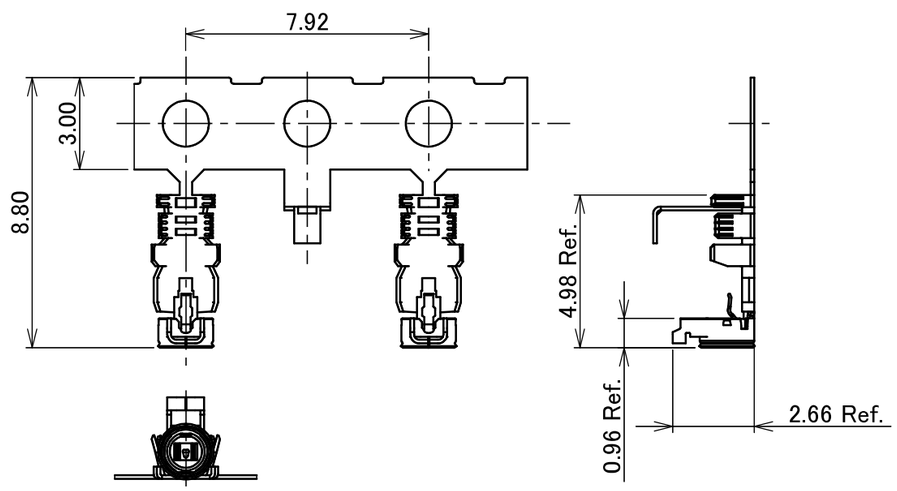
Recommended P/N	20565-001R-83

PART NO.
20565-001R-83

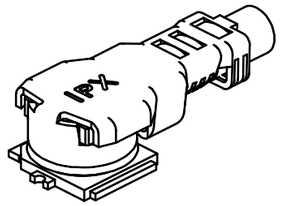


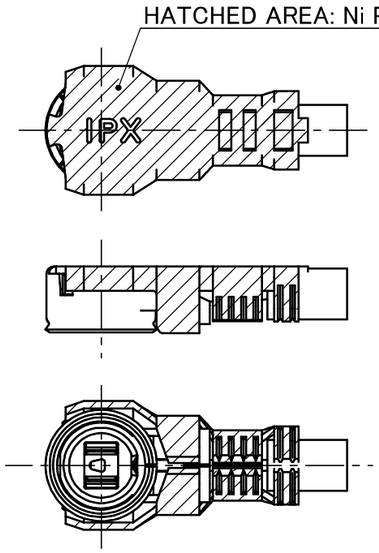


MATING CONDITION



CARRIER CONDITION
S = 5:1



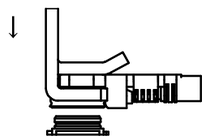


Halogen Free

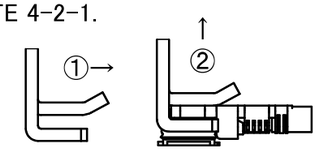
RoHS Compliant

NOTES.
3. APPLICABLE CONNECTOR:
   20449-001E-**
   20579-001E-**
4. MATING AND UNMATING INSTRUCTION
4-1. MATING
   MATE THE CONNECTOR VERTICALY AS MUCH AS POSSIBLE, ADJUSTING THE MATING AXIS OF PLUG AND RECEPTACLE. DO NOT SLANT MATE.
4-2. UNMATING INSTRUCTION
4-2-1. IN CASE OF UNMATING BY PULLING TOOL (PART NO. 90609-0001)
   USE THE PULLING TOOL AS THE FOLLOWING DRAWING, AND PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.
4-2-2. IN CASE OF UNMATING DIRECTLY BY HAND
   CATCH THE CATCHING AREA OF PLUG, AND PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.

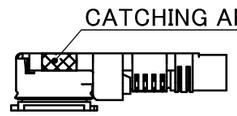
NOTE 4-1.



NOTE 4-2-1.



NOTE 4-2-2.



NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
6	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00μm MIN. CONTACT PART Au 0.05μm MIN. [Ni PLATING AREA] Ni ONLY
5	CONTACT	PHOSPHOR BRONZE	CONTACT PART FINISH: Au 0.10μm MIN. UNDER PLATE: Ni 1.00μm MIN.
4	HOUSING	PBT	UL94V-0, BLACK

REV.	ECN	BY	DATE	APP.
REVISION RECORD				

ANGLE	±2°	6 OVER 30 MAX.	±0.3
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5

GENERAL TOLERANCE.

PROJECTION

SERIES No. R8

CUSTOMER COPY

DWG. DATE

CHK.

APP.

TITLE
MHF® 4L
PLUG Ni TOP
(1.13, 0.95, 0.83)

DWG. No. 20565

SCALE 10:1

UNIT mm

SIZE A3

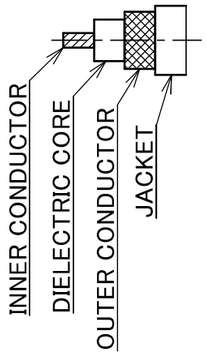
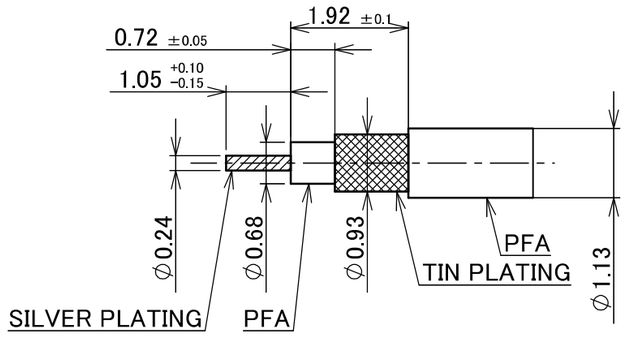
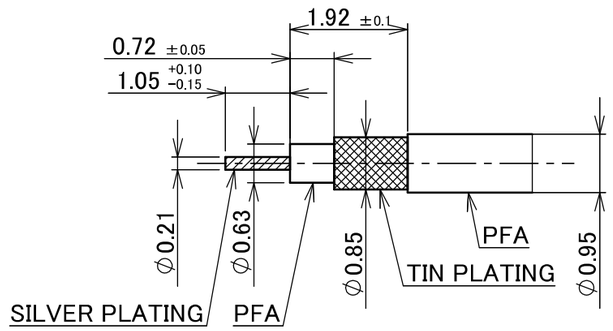
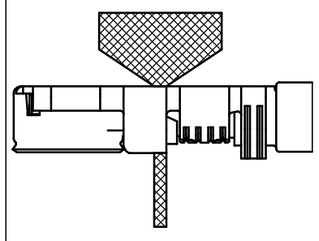
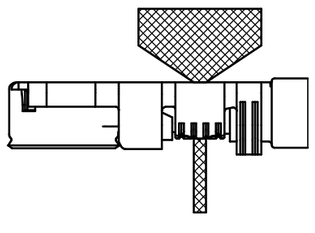
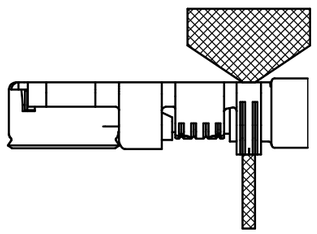
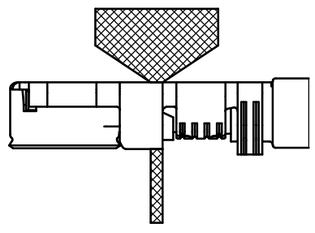
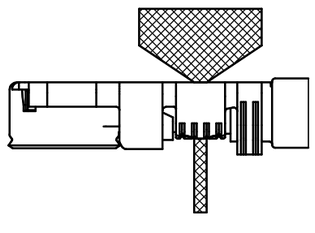
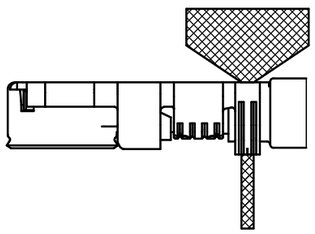
SHEET 2/7

REV. 11

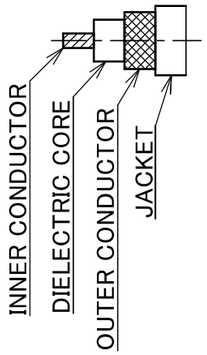
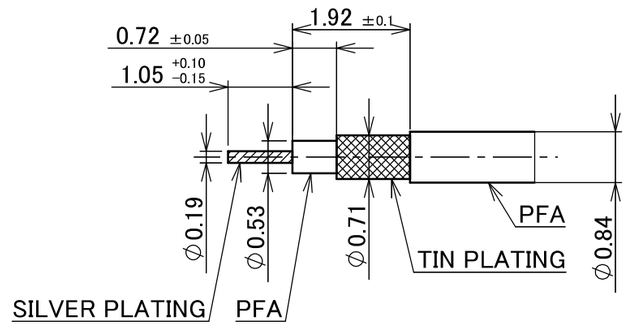
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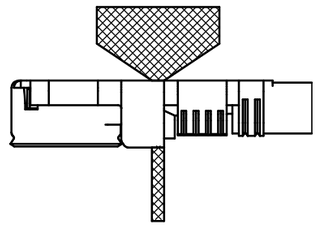
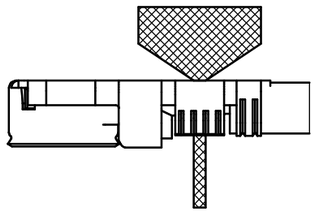
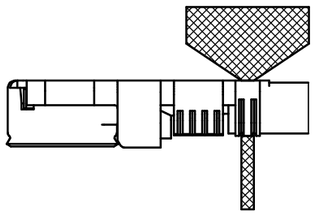
ITEMS	SPECIFICATION		
APPLICABLE CABLE	AWG # 32 (1.13 O.D.)	AWG # 33 (0.95 O.D.)	AWG # 33 (0.84 O.D.)
RECOMMENDED APPLICABLE CONNECTOR PART No.	20449-001E-**		
RATED VOLTAGE	60 V AC (R.M.S)		
RATED FREQUENCY (MATED WITH MHF 4 RECEPTACLE PART No.20449-001E-**)	DC TO 9GHz		
OPERATING TEMPERATURE	233 TO 363 K (-40℃ TO +90℃)		
VSWR (MATED WITH SMA ADAPTER PART No. 90449-001)	1.30 MAX. AT 0.1-3GHz, 1.45 MAX. AT 3-6GHz, 1.60 MAX. AT 6-9GHz, 1.90 MAX. AT 9-12GHz		
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: ⊿R 20 mohm MAX.		
GROUND CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: ⊿R 20 mohm MAX.		
INSULATION RESISTANCE	INITIAL: 500 Mohm MIN. / AFTER TEST: 100 Mohm MIN.		
DIELECTRIC WITHSTANDING VOLTAGE	200 V AC, 1 MINUTE		
DURABILITY	30 CYCLES		
MATING FORCE (INITIAL / AFTER TEST)	INITIAL: 30 N MAX. / AFTER TEST: 30 N MAX.		
UNMATING FORCE (INITIAL / AFTER TEST)	INITIAL: 20 N MAX. 5 N MIN. / AFTER TEST: 20 N MAX. 3 N MIN.		
PRODUCT SPECIFICATION	PRS-1772	PRS-2051	PRS-2062
TEST REPORT	TR-13011	TR-14142	TR-15011
PACKING STANDARD	PST-12066		
INSTRUCTION MANUAL	HIM-12012		
APPEARANCE CRITERIA No.	QLS-A***		

ANGLE ±2°	6 OVER 30 MAX. ±0.3	PROJECTION	SERIES No.	CUSTOMER COPY	
6 MAX. ±0.2	30 OVER 120 MAX. ±0.5		R8		
GENERAL TOLERANCE.		TITLE	SCALE		
DWG. DATE		MHF® 4L PLUG Ni TOP (1.13, 0.95, 0.83)	–	I-PEX	
CHK.			UNIT mm		
APP.		DWG. No. 20565	SIZE A3	SHEET 3/7	REV. 11

PART NO.	20565-001R-13	
APPLICABLE CABLE STRIP DIMENSION 	 ※DO NOT USE SOLDER COATED EITHER INNER OR OUTER CONDUCTOR CABLES.	 ※DO NOT USE SOLDER COATED EITHER INNER OR OUTER CONDUCTOR CABLES.
	REQUIREMENTS CHARACTERISTIC IMPEDANCE: 50 ohm by TDR METHOD NOMINAL CAPACITACNE (REFERENCE VALUE): 97pF/m CONDUCTOR RESISTANCE OF INNER CONDUCTOR AT 293K (REFERENCE VALUE): OD 1.13 TYPE・・・520 ohm/km OD 0.95 TYPE・・・752 ohm/km INSULATION RESISTANCE: OD1.13 TYPE・・・1500 Mega-ohm.km MIN. OD0.95 TYPE・・・1000 Mega-ohm.km MIN. DIELECTRIC WITHSTAND VOLTAGE: OD1.13 TYPE・・・NO BREAKDOWN AT AC1000V FOR 1 MINUTE. OD0.95 TYPE・・・NO BREAKDOWN AT AC500V FOR 1 MINUTE.	
BRAIDED SHIELD OF OUTER CONCUCTOR	SINGLE BRAIDED SHIELD	SINGLE BRAIDED SHIELD
PART NO. OF SEMI AUTO TERMINATION MACHINE	90600-013	90600-010
CRIMP HEIGHT	※USE FOR POINT MICROMETER.	※USE FOR POINT MICROMETER.
	 CH-1 (i-Fit® PART) 1.07～1.11	 CH-2 (SHIELD PART) 0.90～0.94
	 CH-3 (JACKET PART) 1.16～1.20	 CH-1 (i-Fit® PART) 1.04～1.08
	 CH-2 (SHIELD PART) 0.92～0.96	 CH-3 (JACKET PART) 1.16～1.20

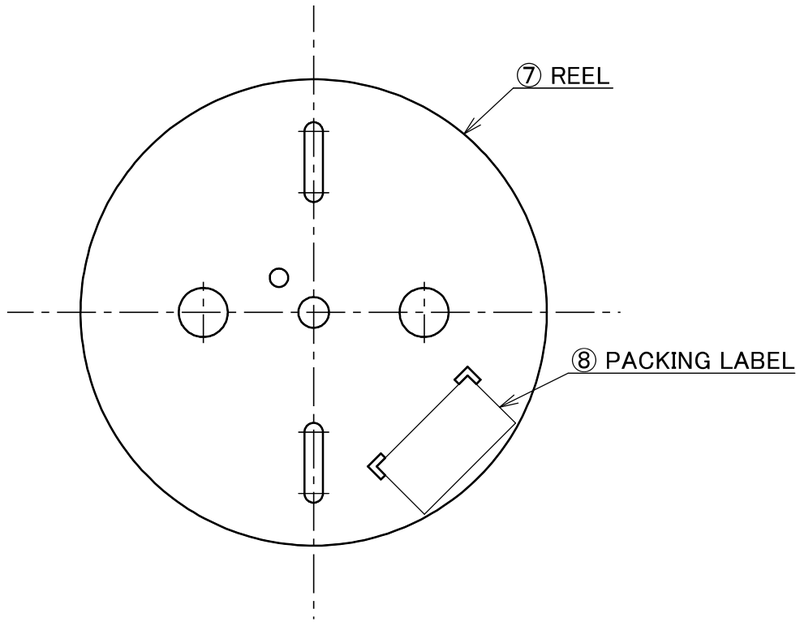
ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No. R8
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		
GENERAL TOLERANCE.					
DWG.	DATE	TITLE: MHF® 4L PLUG Ni TOP (1.13, 0.95, 0.83)		SCALE: –	CUSTOMER COPY
CHK.				UNIT: mm	I-PEX
APP.		DWG. No. 20565		SIZE: A3	SHEET: 4/7 REV.: 11

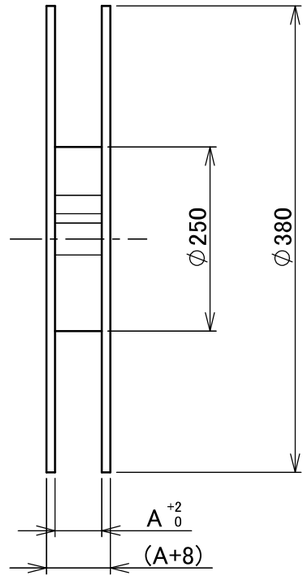
PART NO.	20565-001R-83
APPLICABLE CABLE STRIP DIMENSION	  ※DO NOT USE SOLDER COATED EITHER INNER OR OUTER CONDUCTOR CABLES.
	REQUIREMENTS CHARACTERISTIC IMPEDANCE: 50 ohm BY TDR METHOD NOMINAL CAPACITACNE(REFERENCE VALUE): 96pF/m CONDUCTOR RESISTANCE OF INNER CONDUCTOR AT 293K (Reference value): 925 ohm/km INSULATION RESISTANCE: 1000 Mega-ohm.km MIN. DIELECTRIC WITH STANCE VOLTAGE: NO BREAKDOWN AT AC 1500V FOR 1 MINUTE.
BRAIDED SHIELD OF OUTER CONCUCTOR	SINGLE BRAIDED SHIELD
PART NO. OF SEMI AUTO TERMINATION MACHINE	90600-083
CRIMP HEIGHT	※USE FOR POINT MICROMETER

		
CH-1 (i-Fit® PART) 0.91～0.95	CH-2 (SHIELD PART) 0.84～0.88	CH-3 (JACKET PART) 0.82～0.86

ANGLE ±2°	6 OVER 30 MAX. ±0.3	PROJECTION	SERIES No.	CUSTOMER COPY	
6 MAX. ±0.2	30 OVER 120 MAX. ±0.5		R8		
GENERAL TOLERANCE.		TITLE		SCALE –	I-PEX
DWG.	DATE	MHF® 4L PLUG Ni TOP (1.13, 0.95, 0.83)		UNIT mm	
CHK.					
APP.		DWG. No. 20565		SIZE A3	SHEET 5/7 REV. 11

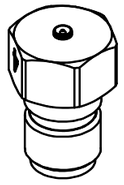
PART NO.	A	QTY. PER EMBOSS REEL (PIECES / REEL)	QTY. PER PACKING CARTON (REELS / CARTON)
20565-001R-**	15	3,000 / REEL	7 REELS / CARTON = 21,000 PIECES

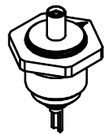




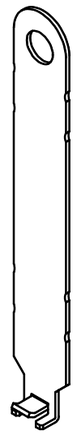
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
8	PACKING LABEL	–	–
7	REEL	PP	–

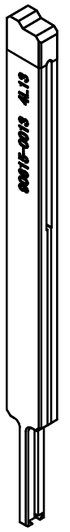
ANGLE ±2°	6 OVER 30 MAX. ±0.3	PROJECTION	SERIES No.	CUSTOMER COPY	
6 MAX. ±0.2	30 OVER 120 MAX. ±0.5		R8		
GENERAL TOLERANCE.		TITLE		SCALE	
DWG. DATE		MHF® 4L PLUG Ni TOP (1.13, 0.95, 0.83)		–	I-PEX
CHK.				UNIT mm	
APP.		DWG. No. 20565		SIZE A3	SHEET 6/7 REV. 11











FRONT SIDE BACK SIDE

MHF 4 (4L) SMA ADAPTOR
PART NO. 90449-001

MHF 4 (4L) INSPECTION CONNECTOR
PART NO. 90449-003-01

MHF 4L PUSHING AND PULLING TOOL
PART NO. 90609-0001

MHF 4L 13TYPE MATING AND UNMATING TWEEZER
PART NO. 90615-0013

S = 1:1

ANGLE ±2°	6 OVER 30 MAX. ±0.3	PROJECTION	SERIES No.	CUSTOMER COPY	
6 MAX. ±0.2	30 OVER 120 MAX. ±0.5		R8		
GENERAL TOLERANCE.		TITLE		SCALE	
DWG. DATE		MHF® 4L PLUG Ni TOP (1.13, 0.95, 0.83)		2:1 UNIT mm	I-PEX
CHK.					
APP.		DWG. No. 20565		SIZE A3	SHEET 7/7 REV. 11