

MHF[®] TI

用於汽車遠端資訊處理天線和攝影機感測器的微型、堅固的射頻連接器

Product Specifications:

Mated Height		3.65 mm max.
Rece. SMT Size		9.4 x 5.18 mm
Applicable Frequency		DC ~ 6 GHz
Characteristic Impedance		50 ohm
VSWR (L = 100 mm)	DC ~ 6 GHz	1.5 max.
	6 ~ 9 GHz	-
	9 ~ 12 GHz	-
	12 ~ 15 GHz	-

Applicable Cable Size:

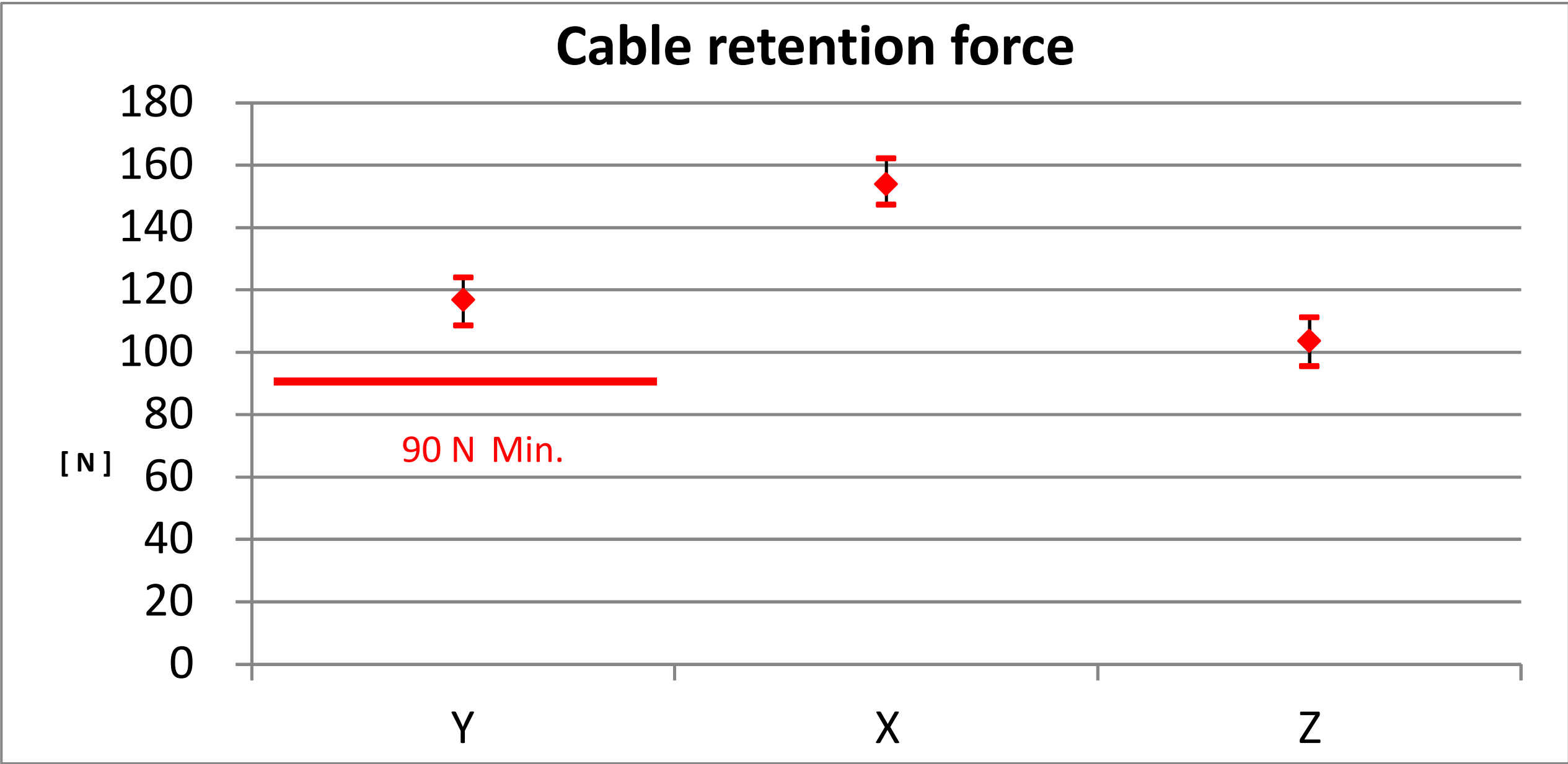
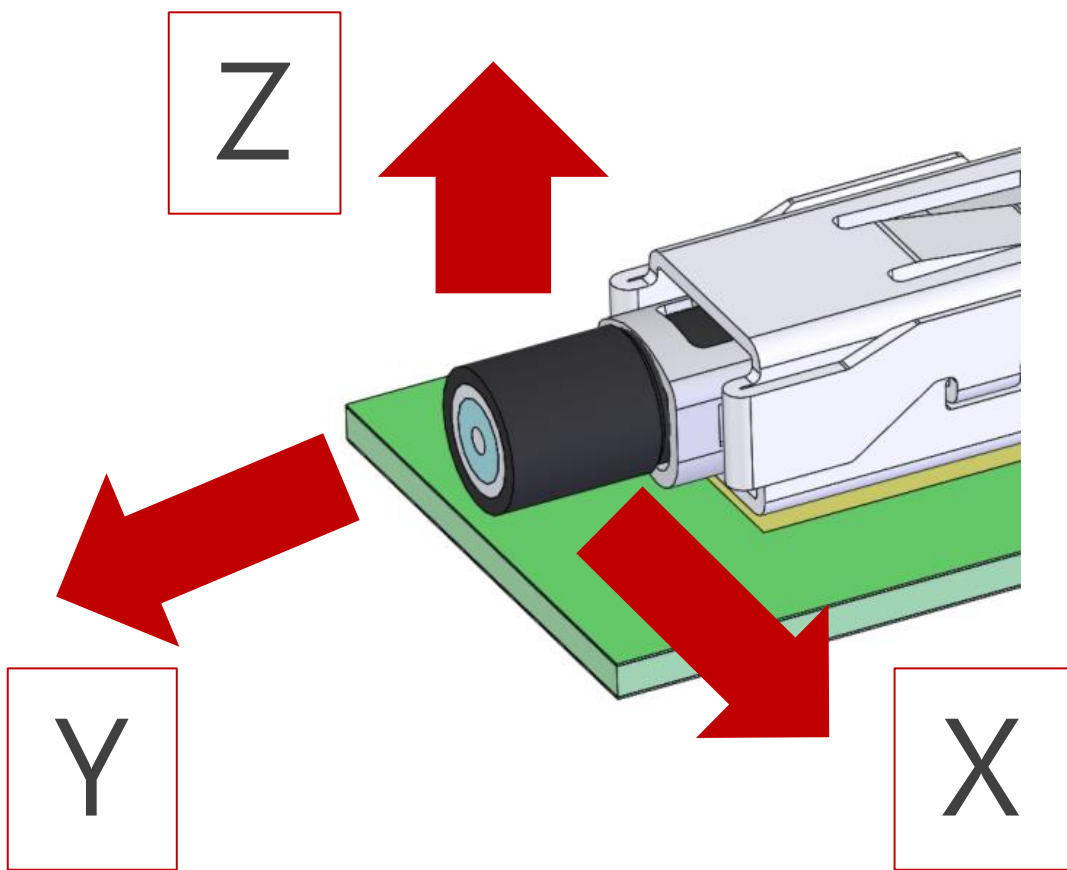
O.D. 2.8 mm/AWG 26
O.D. 3.0 mm/AWG 25

Applicable Standards (Reference Only):

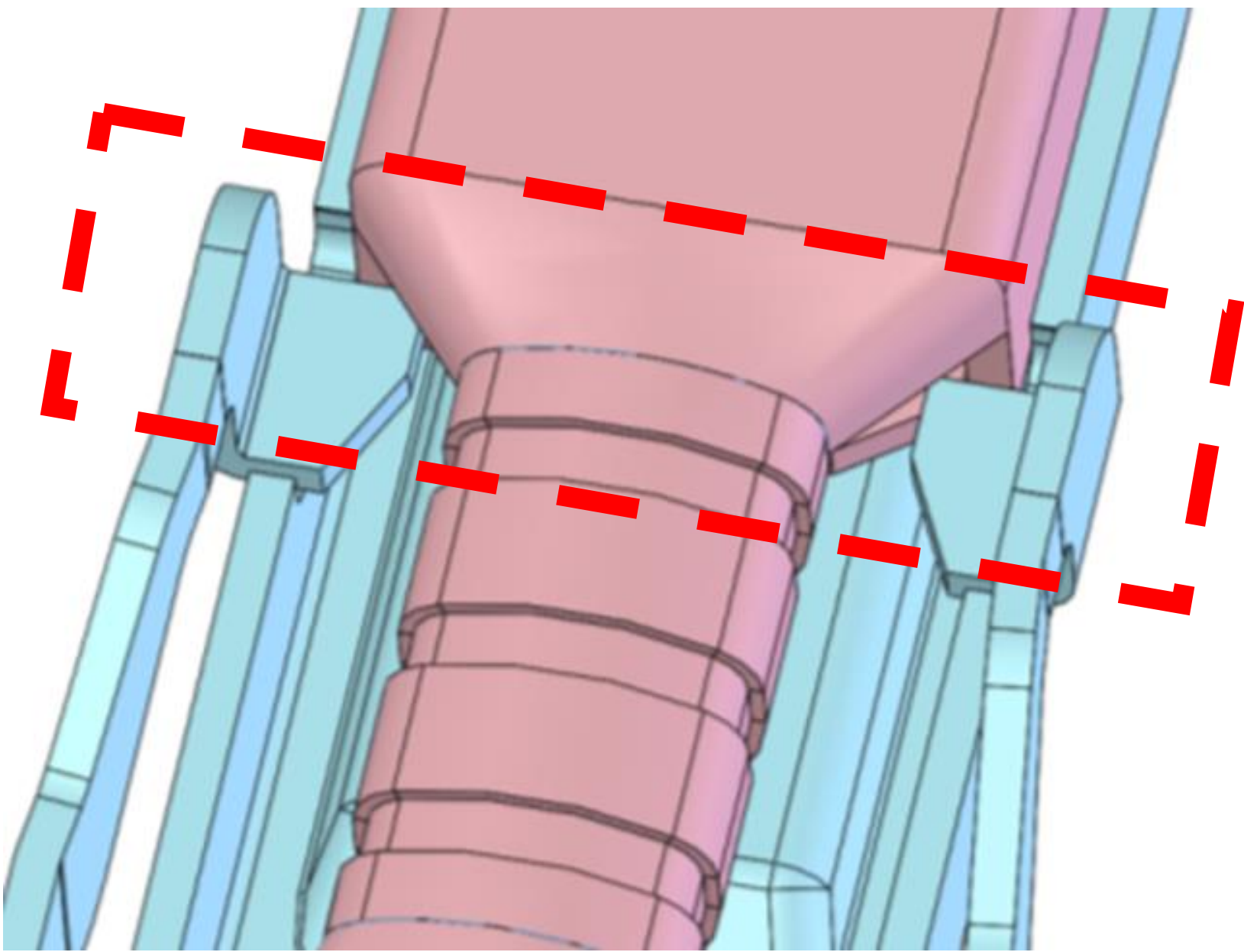
5G sub-6, Wi-Fi 6, LTE/LTE-Advanced, LPWA, Bluetooth, GPS, C-V2X, DSRC



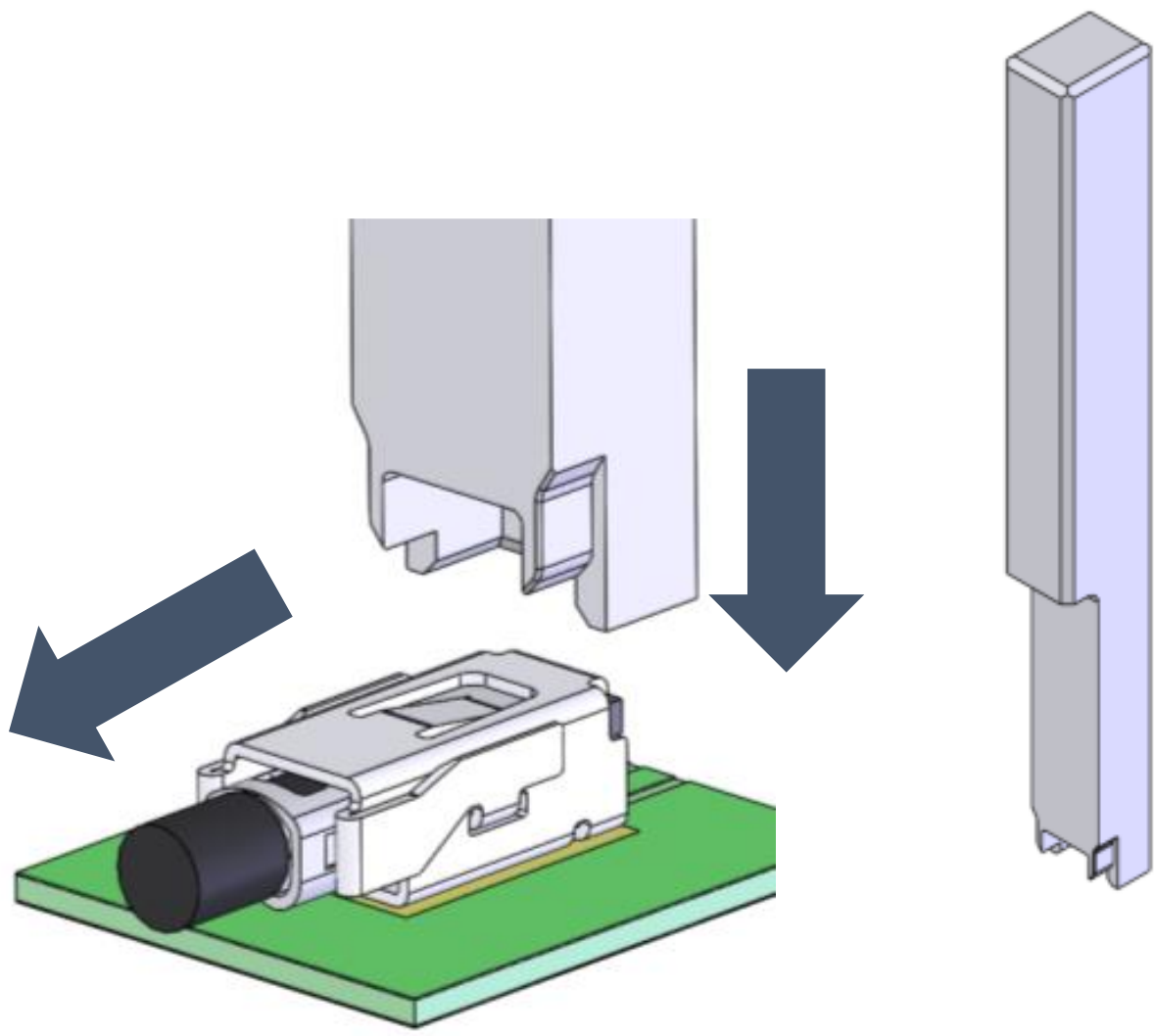
► 90 N min. 具備同軸線高度保持力



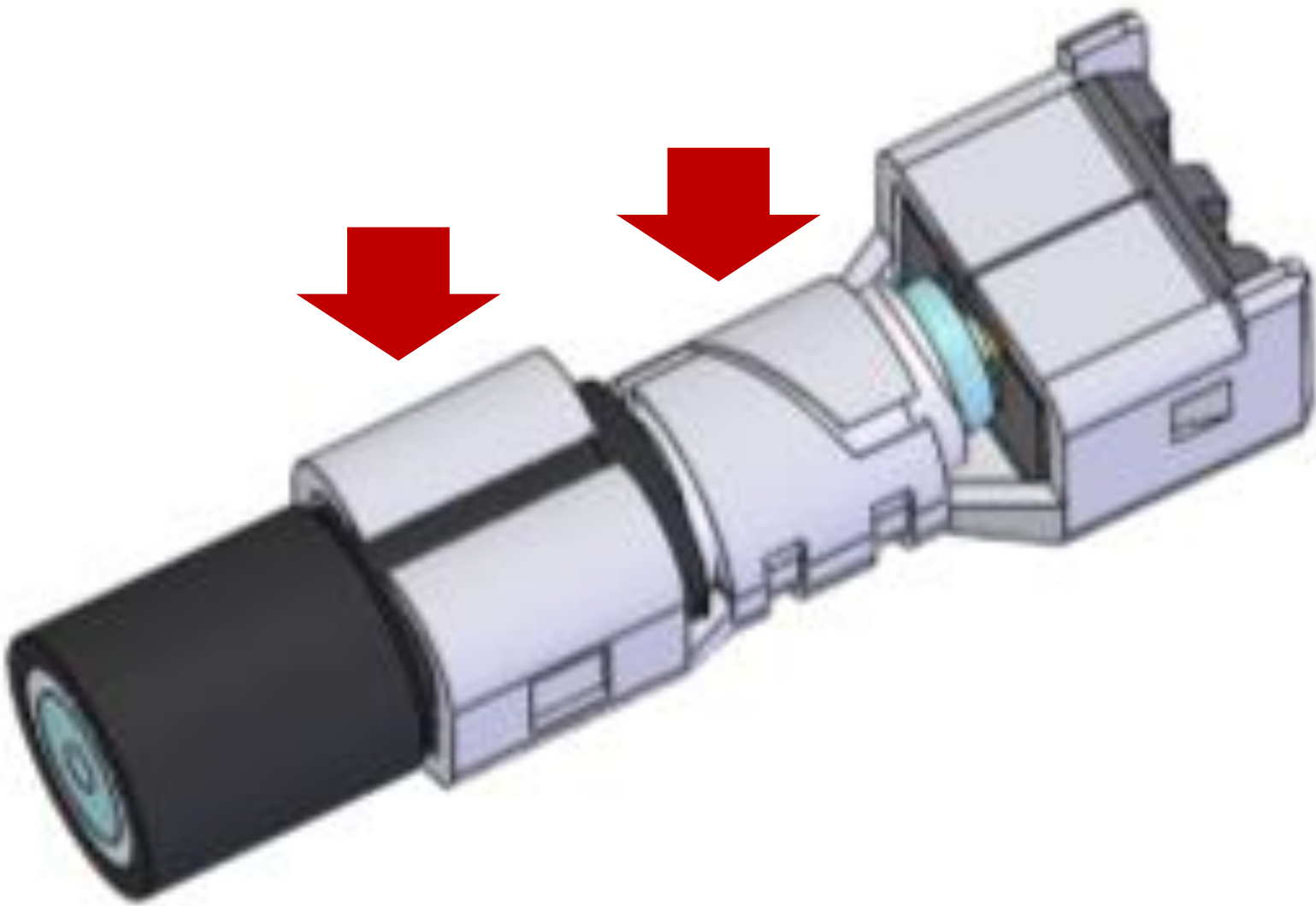
► 機械鎖扣穩定持久並提供即時觸感反饋，確保接觸可靠性/提供拆卸工具



專用插拔治具
91097-0001



► 適用線徑2.8 ~ 3.0 mm O.D.

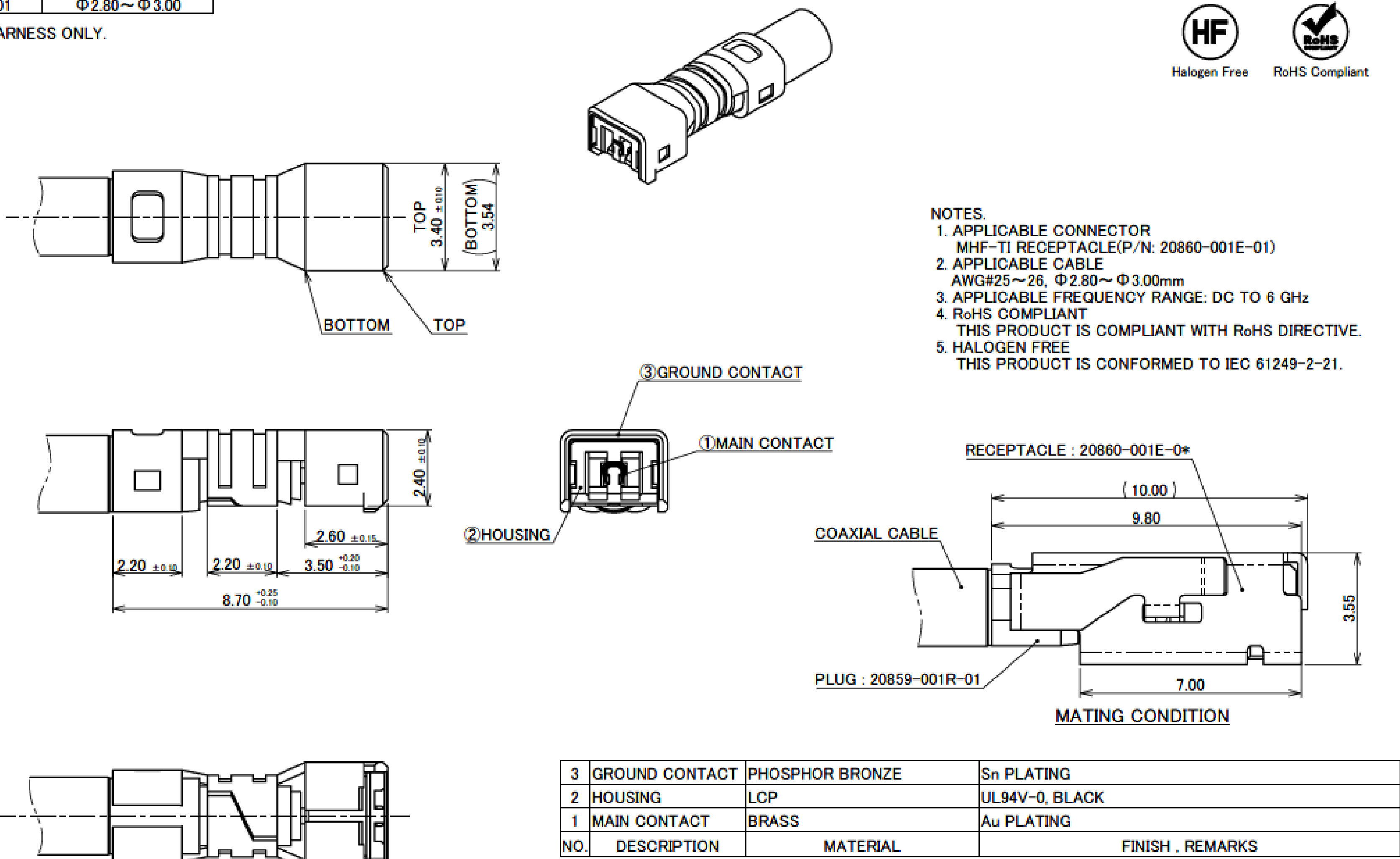
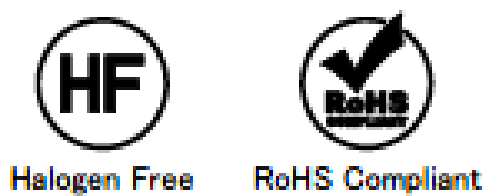


Component Parts Details

MHF® -TI Plug

Recommended P/N		20859-001R-01
PART NO.	APPLICABLE CABLE	
20859-001R-01	Φ 2.80~Φ 3.00	

OFFERED AS HARNESS ONLY.



- NOTES.
1. APPLICABLE CONNECTOR
MHF-TI RECEPTACLE(P/N: 20860-001E-01)
 2. APPLICABLE CABLE
AWG#25~26, Φ 2.80~Φ 3.00mm
 3. APPLICABLE FREQUENCY RANGE: DC TO 6 GHz
 4. RoHS COMPLIANT
THIS PRODUCT IS COMPLIANT WITH RoHS DIRECTIVE.
 5. HALOGEN FREE
THIS PRODUCT IS CONFORMED TO IEC 61249-2-21.

3	GROUND CONTACT	PHOSPHOR BRONZE	Sn PLATING
2	HOUSING	LCP	UL94V-0, BLACK
1	MAIN CONTACT	BRASS	Au PLATING
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS

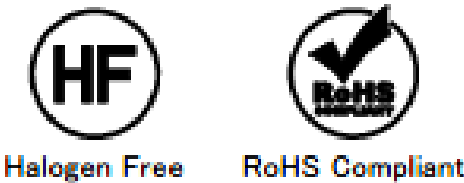
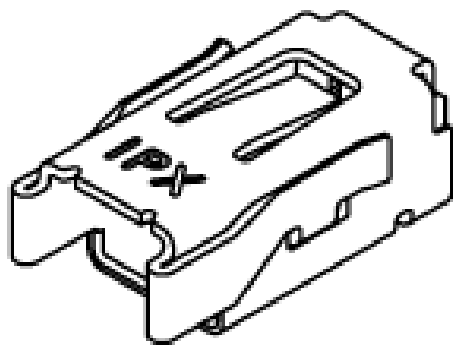
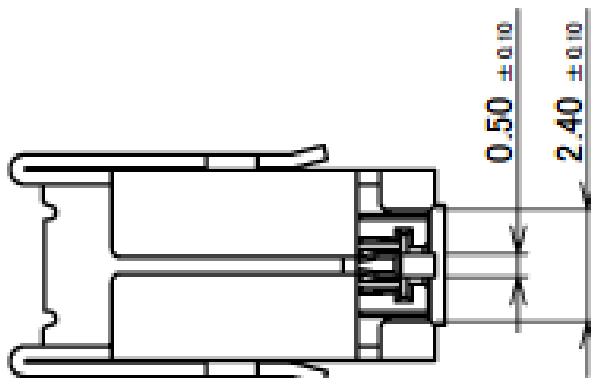
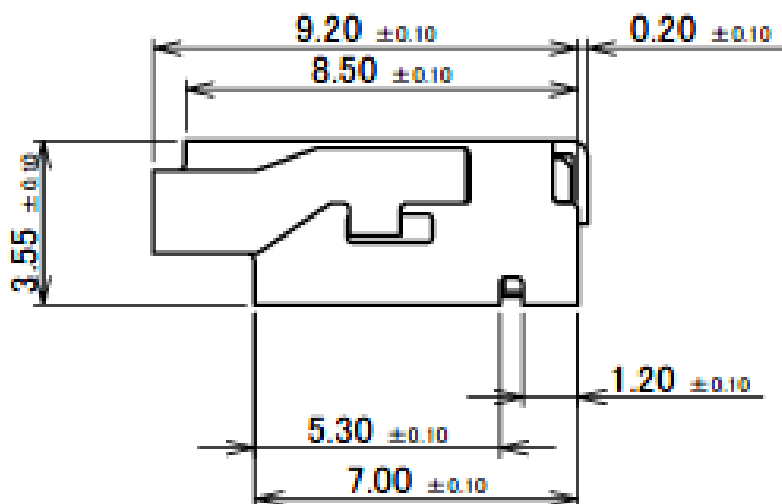
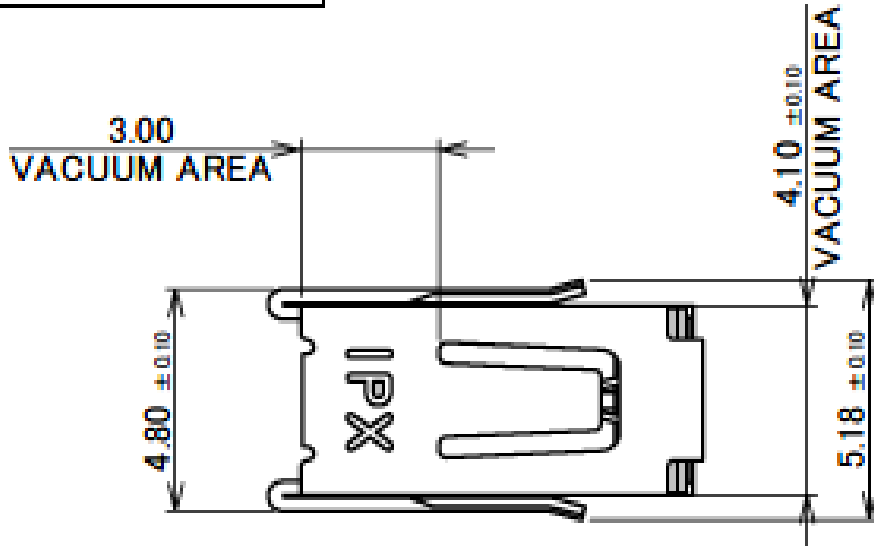
MHF® -TI Plug

ITEMS	SPECIFICATION
RECOMMENDED APPLICABLE CONNECTOR PART No.	20860-001E-0*
RATING AMPERAGE	100mA AC/DC
RATING FREQUENCY	DC~6 GHz
OPERATING TEMPERATURE	233~378K (-40°C~+105°C)
OPERATING HUMIDITY	85% MAX. (NON-CONDENSING)
VSWR	1.5 MAX. AT DC~6 GHz
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: 30 mohm MAX.
GROUND CONTACT RESISTANCE	INITIAL: 15 mohm MAX. / AFTER TEST: 25 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	45N MAX.
MATING LOCK STRENGTH	110 N MIN
CRIMP STRENGTH	90 N MIN.
PRODUCT SPECIFICATION	PRS-2573
TEST REPORT	TR-20007
INSTRUCTION MANUAL	HIM-20001
APPEARANCE CRITERIA No.	QLS-A***

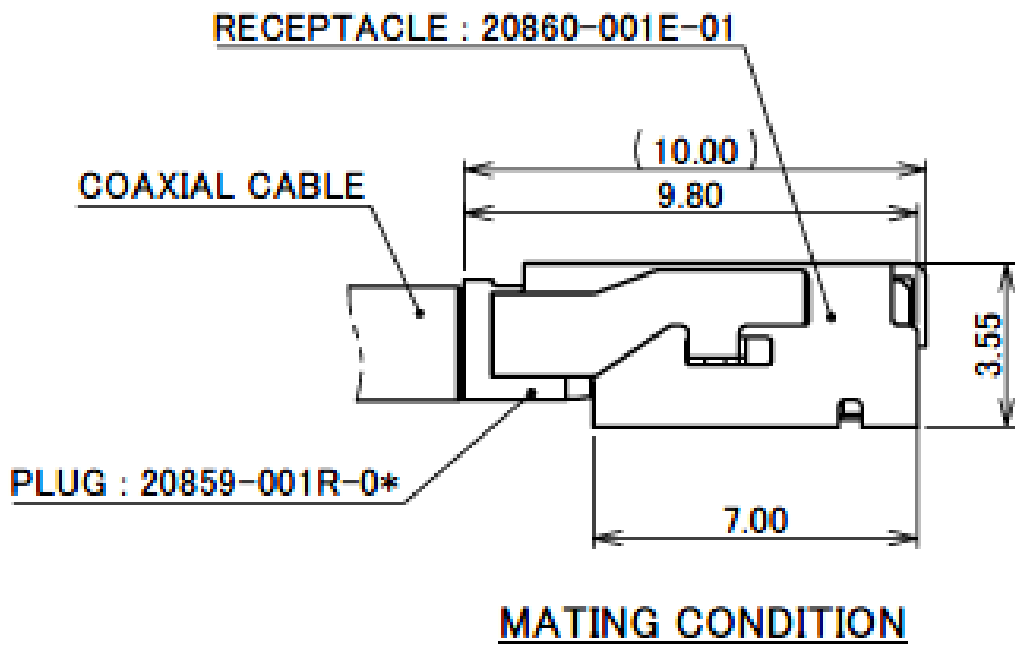
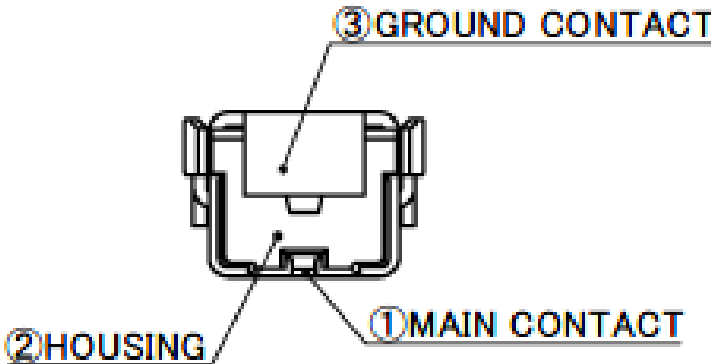
Rev.5

MHF® -TI Receptacle

Recommended P/N	20860-001E-01
PART NO.	
20860-001E-01	



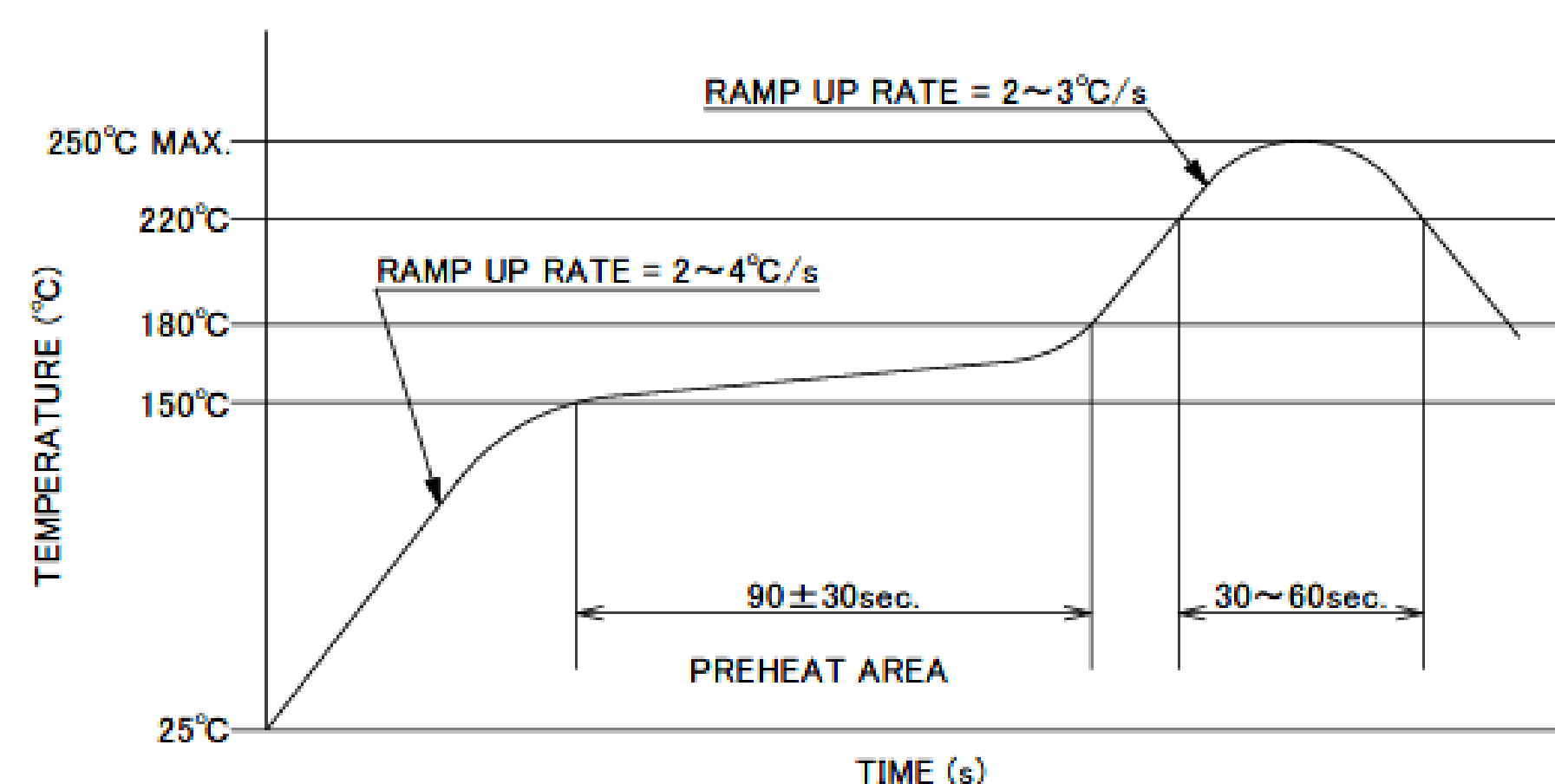
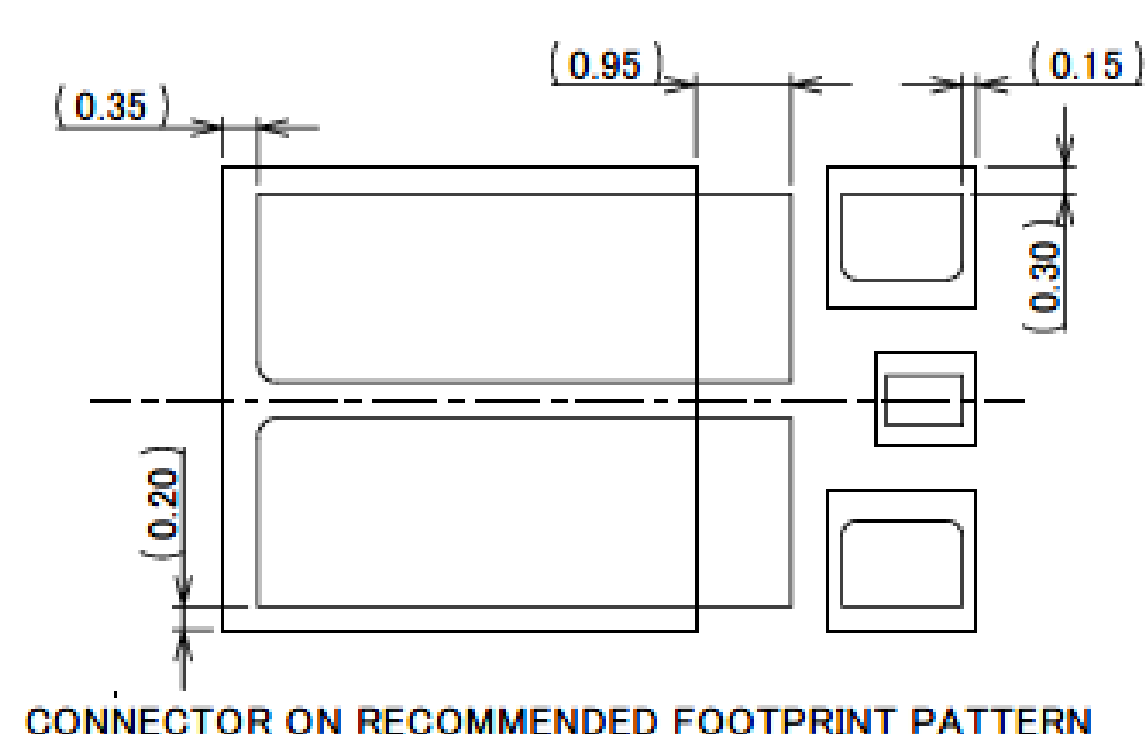
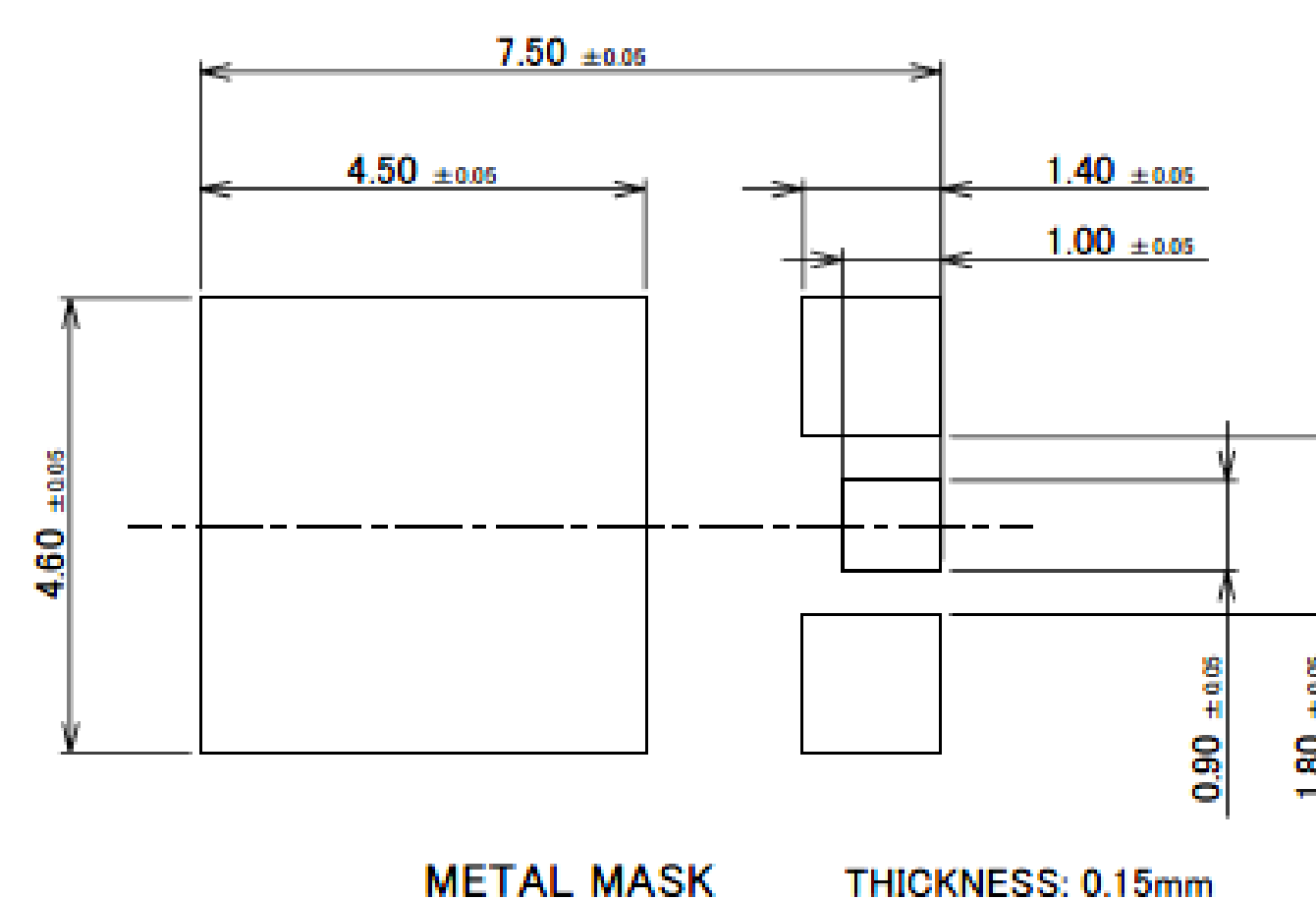
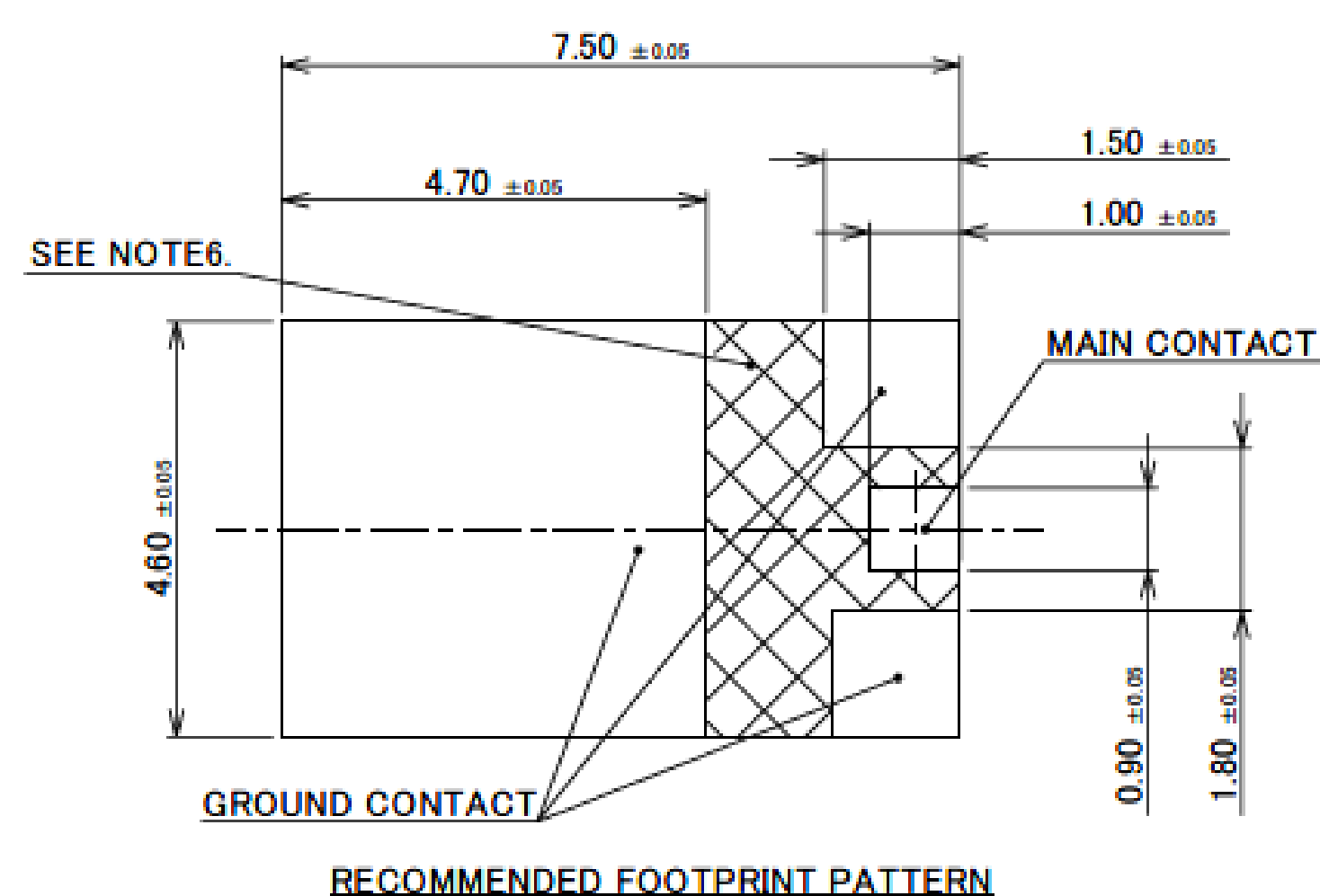
- NOTES.
- 1. APPLICABLE CONNECTOR
MHF-TI PLUG(P/N: 20859-001R-0*)
 - 2. APPLICABLE FREQUENCY RANGE: DC TO 6 GHz
 - 3. COPLANARITY : 0.1MAX.
 - 4. RoHS COMPLIANT
THIS PRODUCT IS COMPLIANT WITH RoHS DIRECTIVE.
 - 5. HALOGEN FREE
THIS PRODUCT IS CONFORMED TO IEC 61249-2-21.



3	GROUND CONTACT	PHOSPHOR BRONZE	Sn PLATING
2	HOUSING	LCP	UL94V-0, BLACK
1	MAIN CONTACT	CORSON ALLOY	Au PLATING
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS

Rev.7

MHF® -TI Receptacle



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

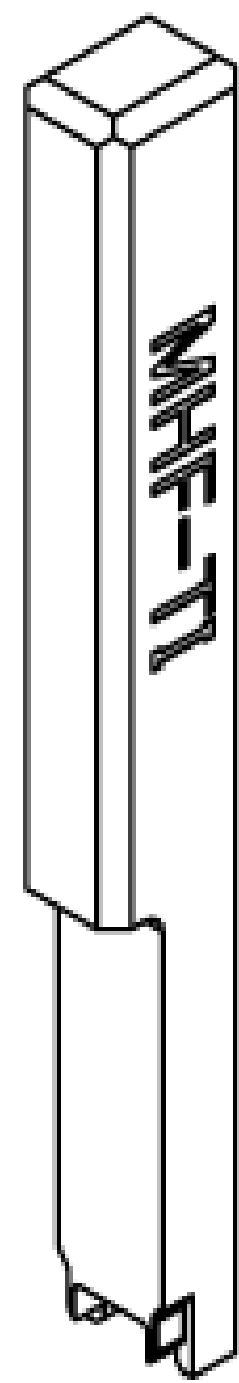
NOTES:
6. NO GROUND, SIGNAL, AND RESIST IN THIS AREA.

Rev.7

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20859-001R-01
RATING AMPERAGE	100mA AC/DC
RATING FREQUENCY	DC~6 GHz
OPERATING TEMPERATURE	233~378K (-40℃~+105℃)
OPERATING HUMIDITY	85% MAX. (NON-CONDENSING)
VSWR	1.5 MAX. AT DC~6 GHz
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: 30 mohm MAX.
GROUND CONTACT RESISTANCE	INITIAL: 15 mohm MAX. / AFTER TEST: 25 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	45 N MAX.
MATING LOCK STRENGTH	110 N MIN
CRIMP STRENGTH	90 N MIN.
PRODUCT SPECIFICATION	PRS-2573
TEST REPORT	TR-20007
PACKING STANDARD	PST-18032
INSTRUCTION MANUAL	HIM-20001
APPEARANCE CRITERIA No.	QLS-A***

Rev.7

Accessories for MHF® -TI Plug & Receptacle



MHF-TI UN-MATING JIG
PART NO. 91097-0001

Rev.7

Custom Connectors Available

RF Connectors

MHF® series



CABLIN® series

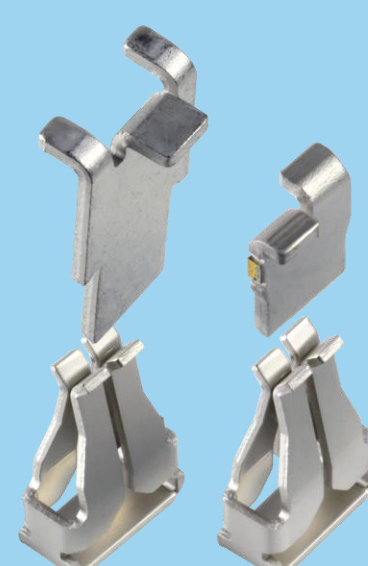


Micro-Coaxial/Twinaxial Connectors

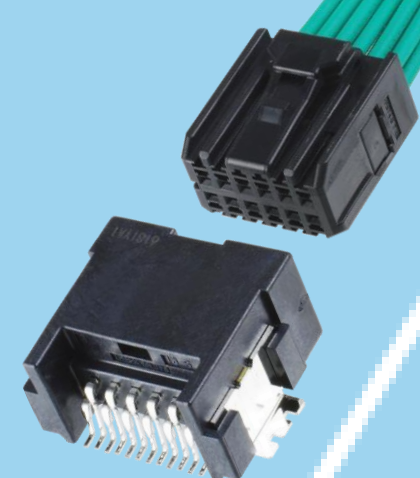


Wire-to-Board Connectors/ Terminals

AP series



ISH® series



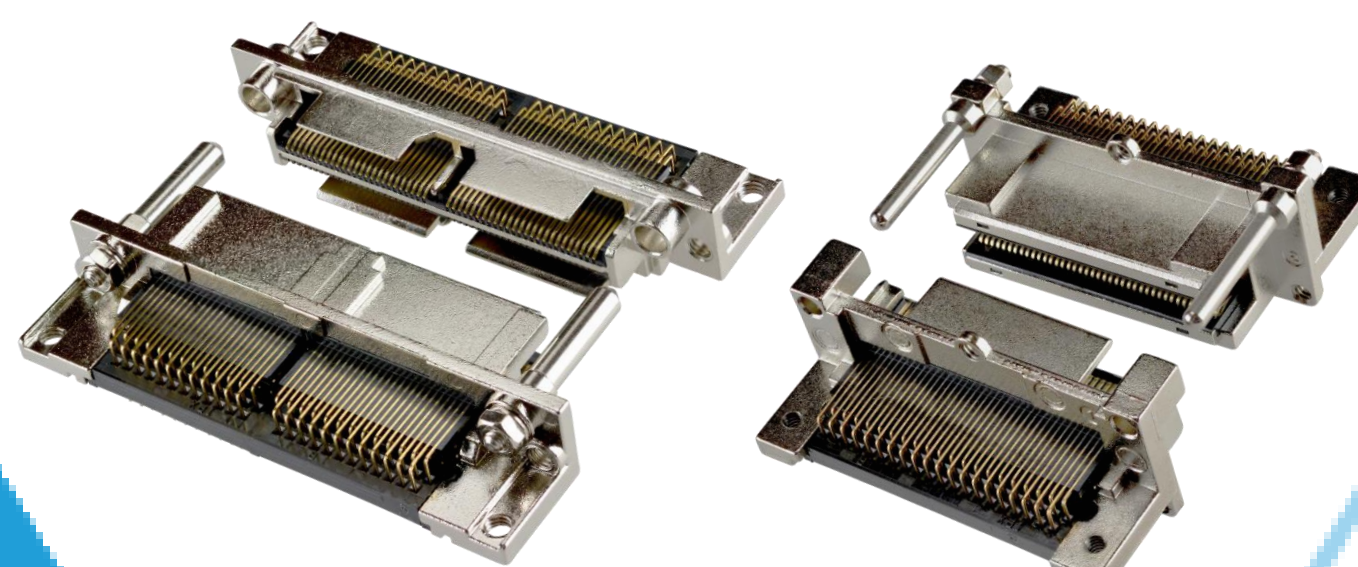
NOVASTACK® series



Board-to-Board Connectors

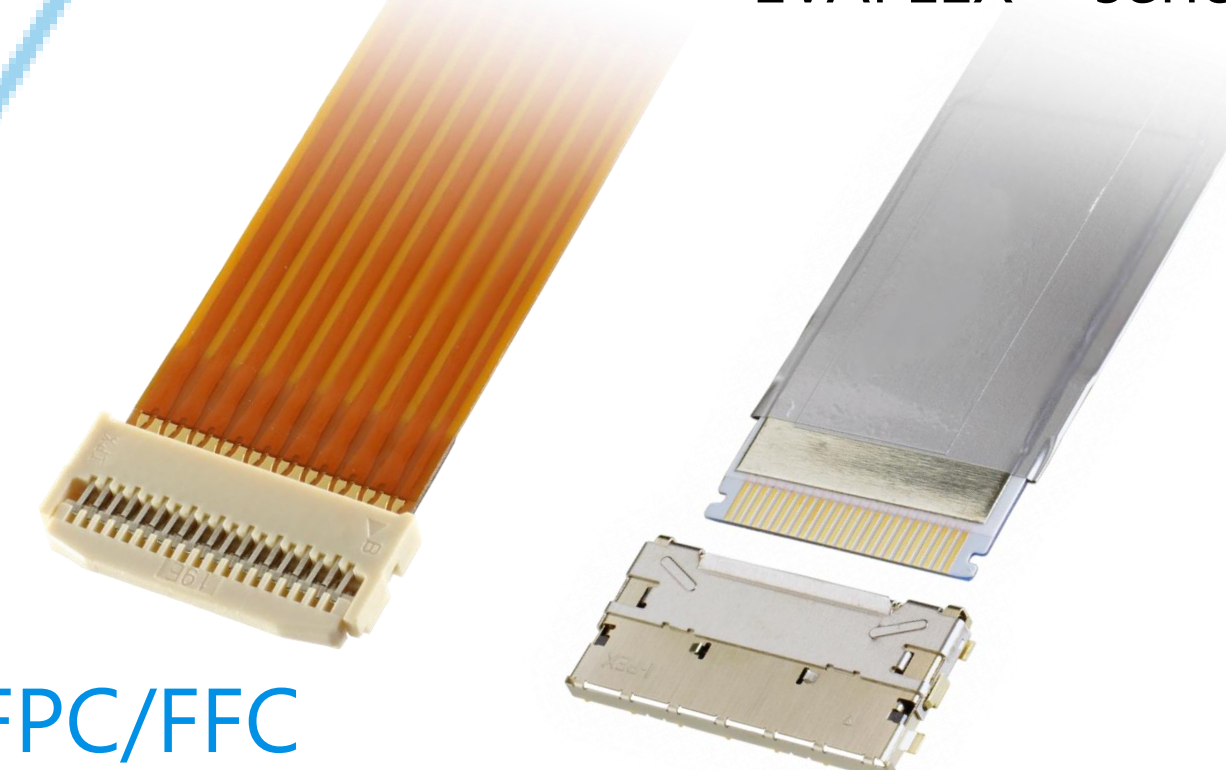


I/O Connectors



MINIDOCK™ series

MINIFLEX® series EVAFLEX® series



FPC/FFC Connectors



Inquiry



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