

CABLINE®-CBL

Low mating height (Height = 0.825 mm), Mechanical lock with shielding and multi-point ground, 0.4 mm pitch, Horizontal mating type Micro-coaxial connector



Product Specifications:

Mating type	Horizontal	
Board Pitch (mm)	0.4	
Wiping Length (mm)	0.44	
Mated size (mm)	Height	0.825 +/- 0.15
	Width	Formula: 6.44 + (0.4*?p)
	Depth	5.44
Pin Counts	Range	Up to 40
	Available	30, 40

Applicable Cable Size:

Maximum O.D. (mm)	0.4
Micro-Coaxial for Signal (AWG)	45 ohm: #40 or smaller wire 50 ohm: #40 or smaller wire
Twinax (AWG)	-
Discrete (AWG)	#36 or smaller wire

Applicable Standards (Reference Only):

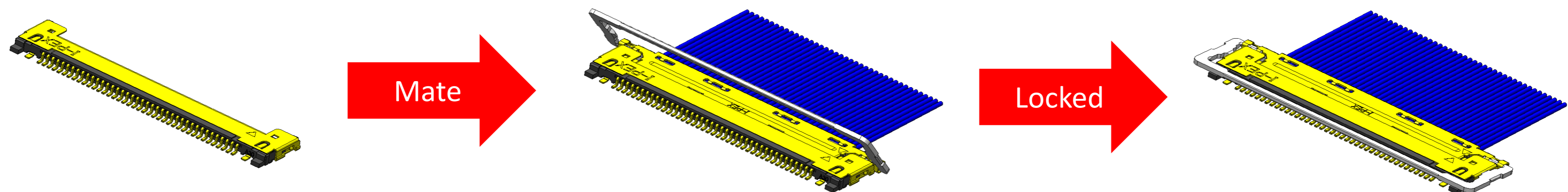
USB 3.1 Gen 1 (5 Gbps) V-By-One HS 1.4 (4 Gbps)
HDMI 1.3 (3.4 Gbps)

*Please inquire for pin counts not listed or outside of the pin count range.
*Lower height connector CABLINE®-CAL (mating height: 0.8 mm max.) is also available.

▶ Mating height: 0.975 mm max. (0.825 mm nominal)

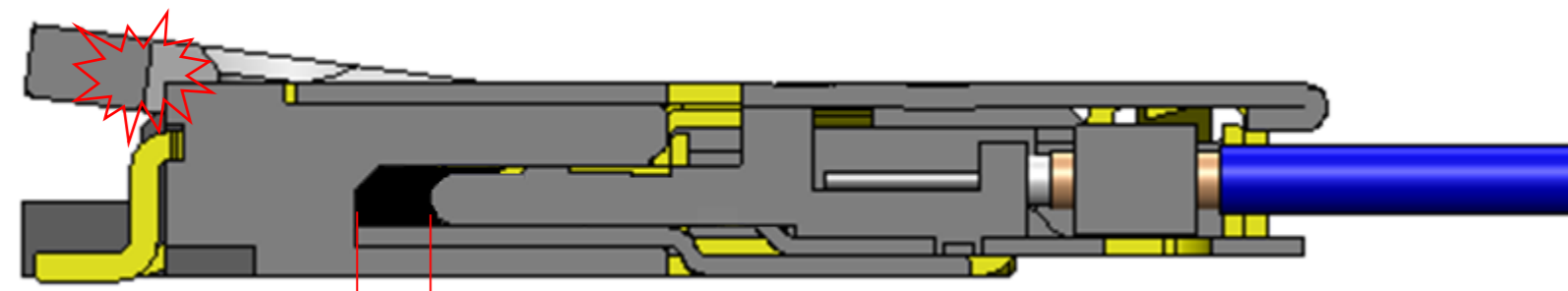
CABLINE-CBL 40p				CABLINE-CAL 40p (lower height connector)			
CABLINE-CBL 40p mated set dimensions (mm)				CABLINE-CAL 40p mated set dimensions (mm)			
W	D	H		W	D	H	
22.44	5.44	0.825 (0.975 max.)		24.05	5.50	0.70 (0.80 max.)	

▶ Mechanical locking bar prevents incomplete mating and back-out/un-mating

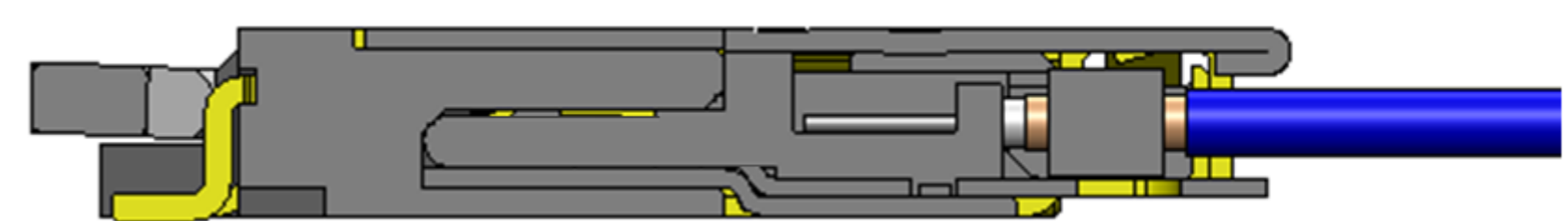


Mechanical locking bar only locks when plug is fully mated to receptacle.

Interference

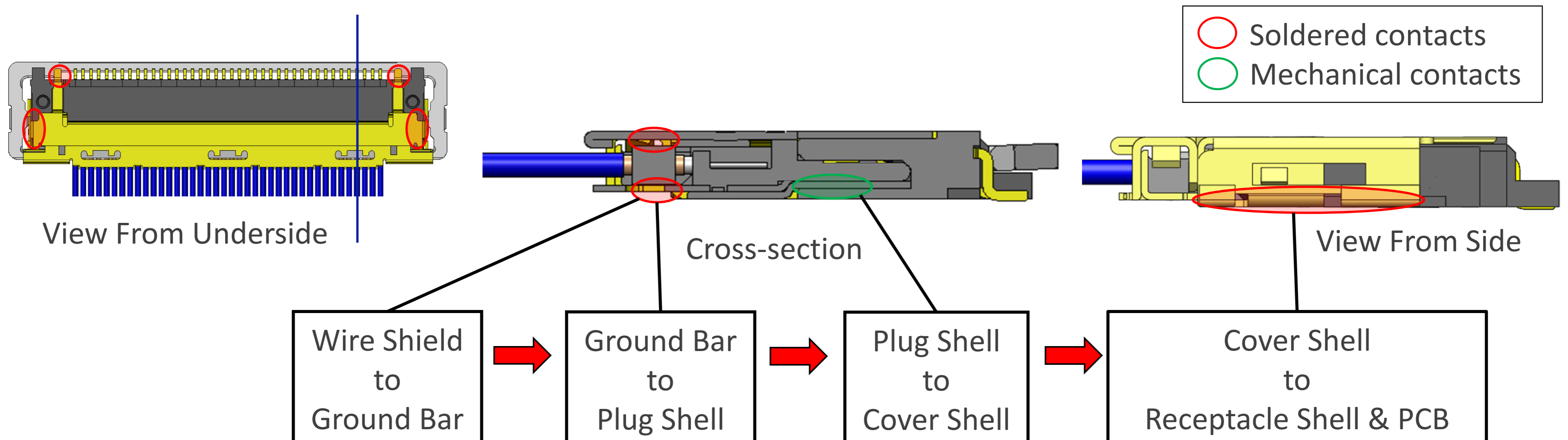


Incomplete mating



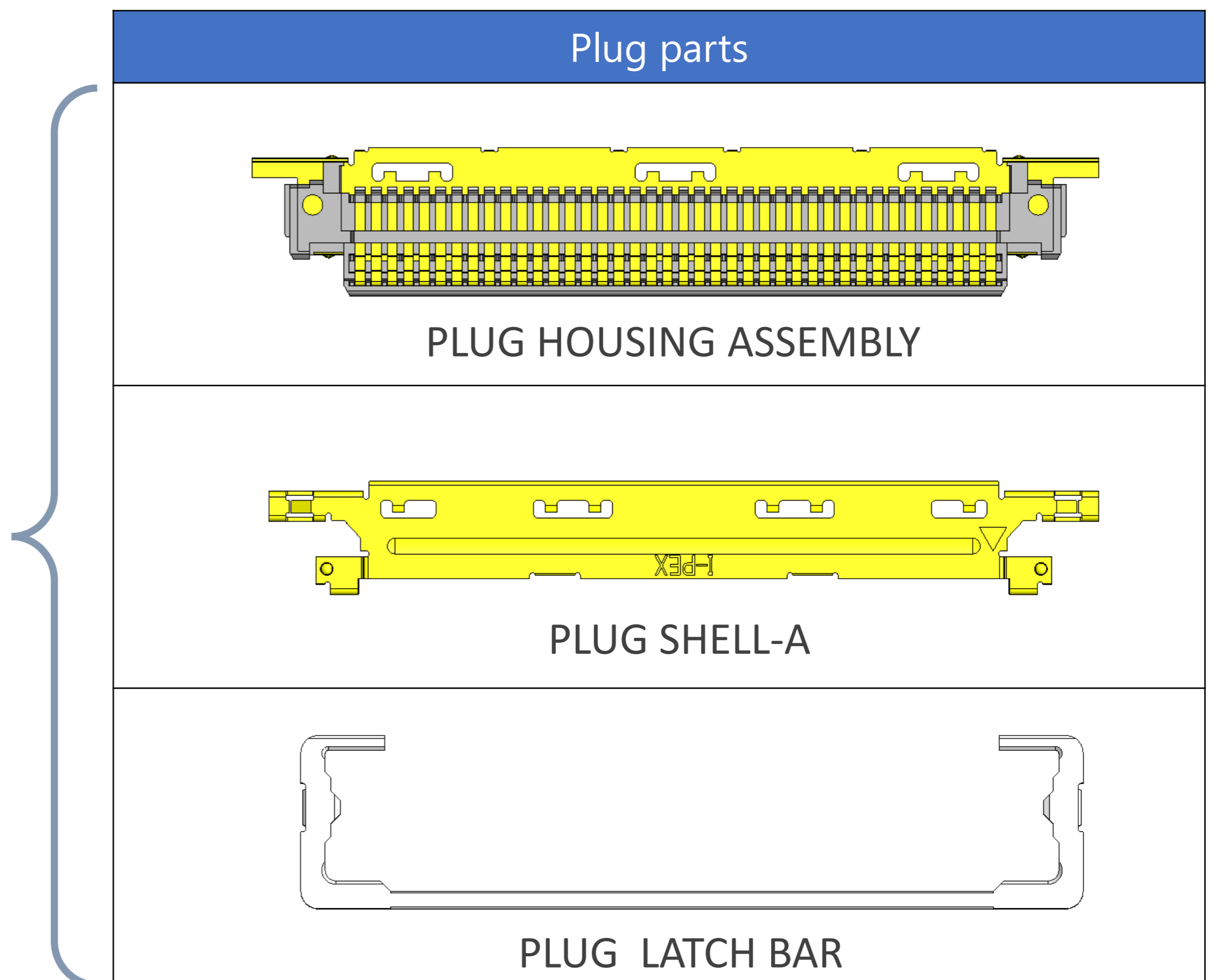
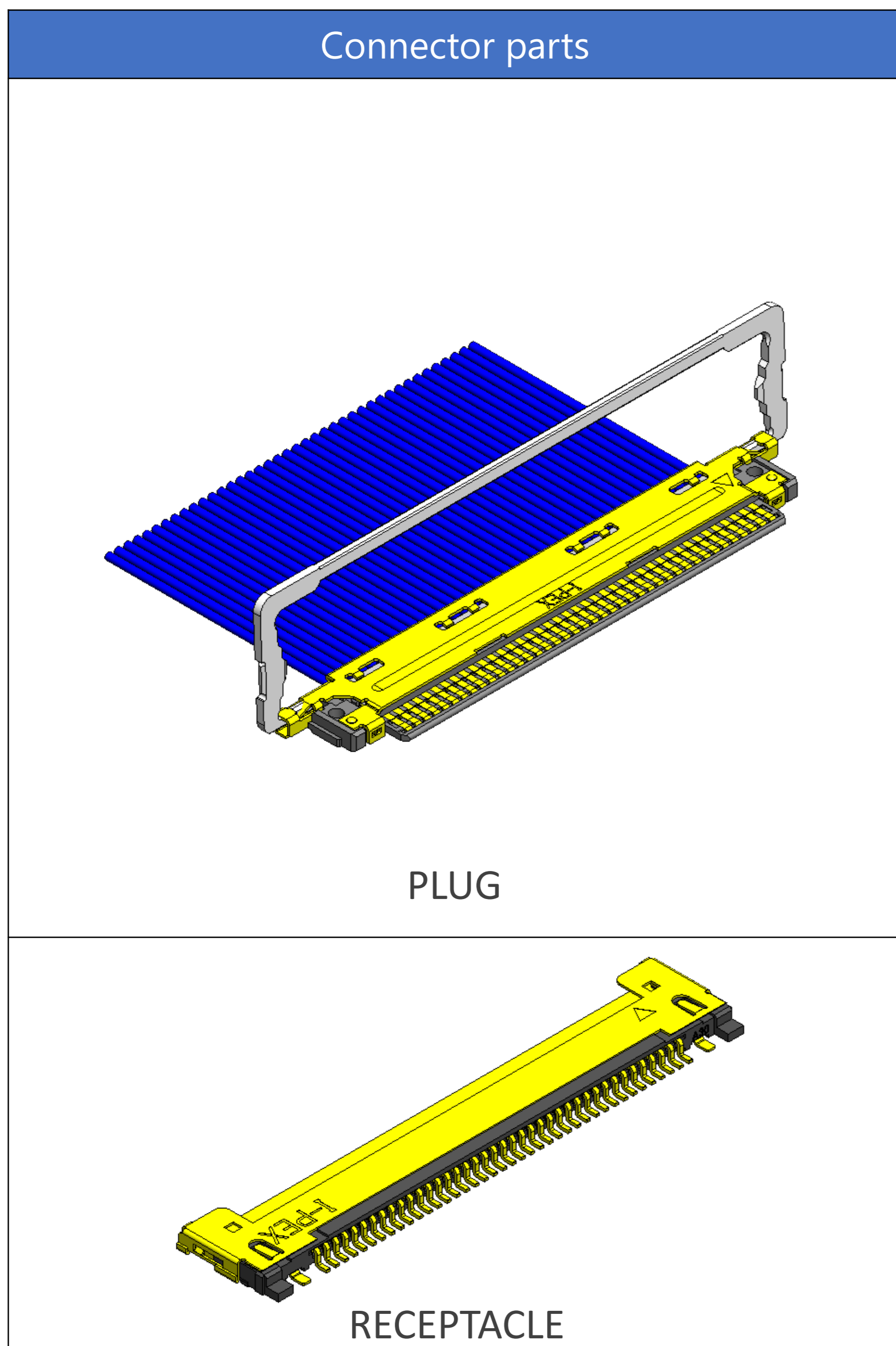
Complete mating

▶ EMI shielding and multi-point ground design



Component Parts Details

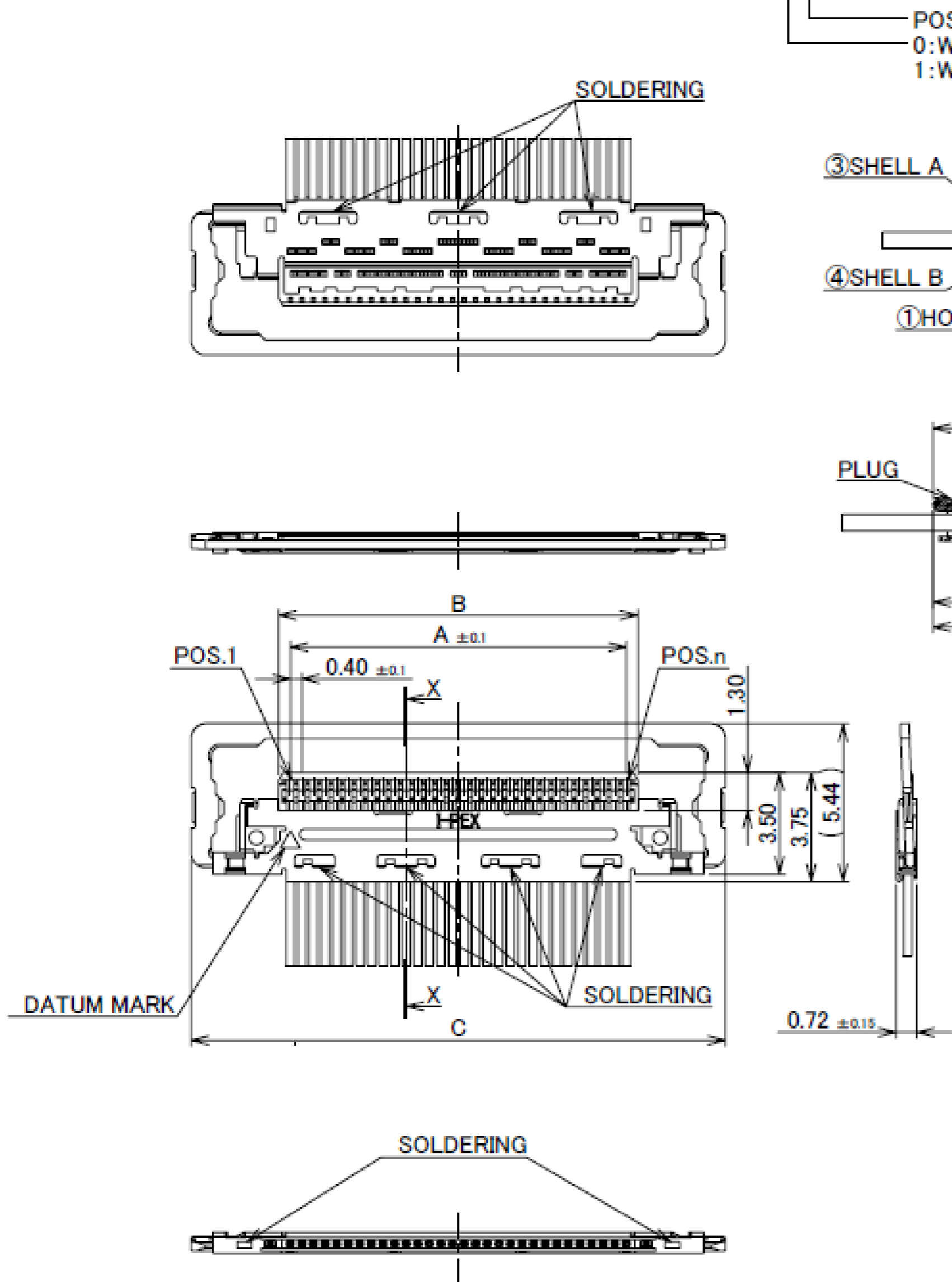
Component Parts



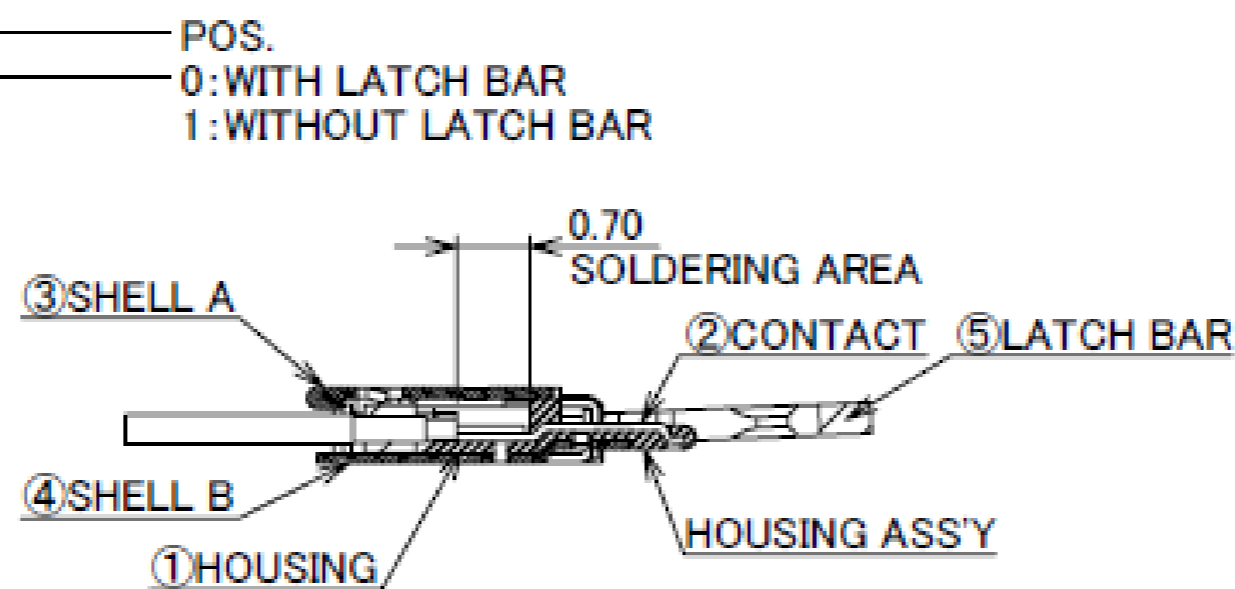
Plug for Cable Assembly

Recommended P/N		20472-0**T-10			
PART NO.	POS.	A	B	C	D
20472-030T-10	30	11.60	12.40	18.44	13.00
20472-040T-10	40	15.60	16.40	22.44	17.00

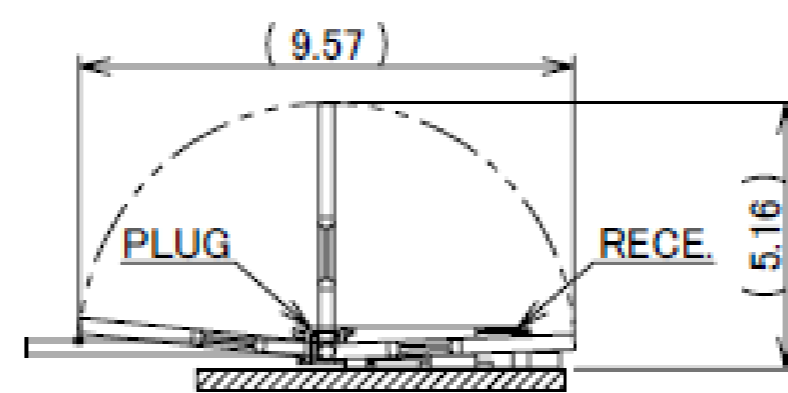
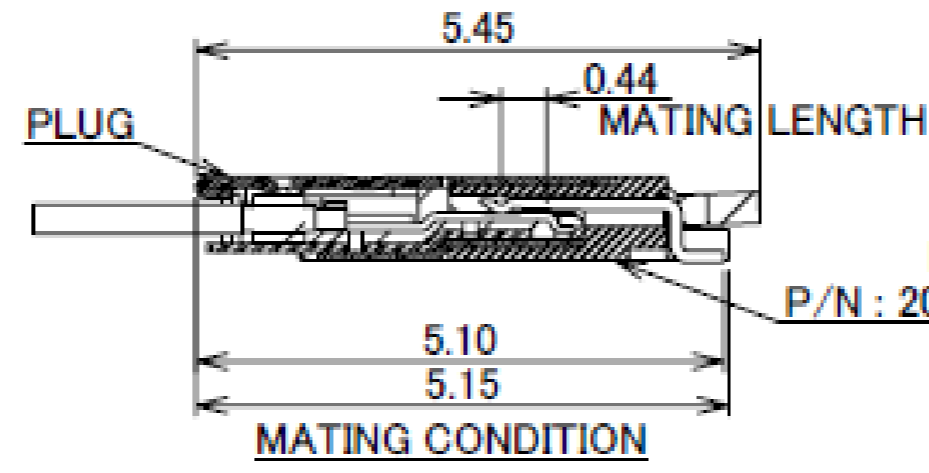
P/N : 20472-***T-10



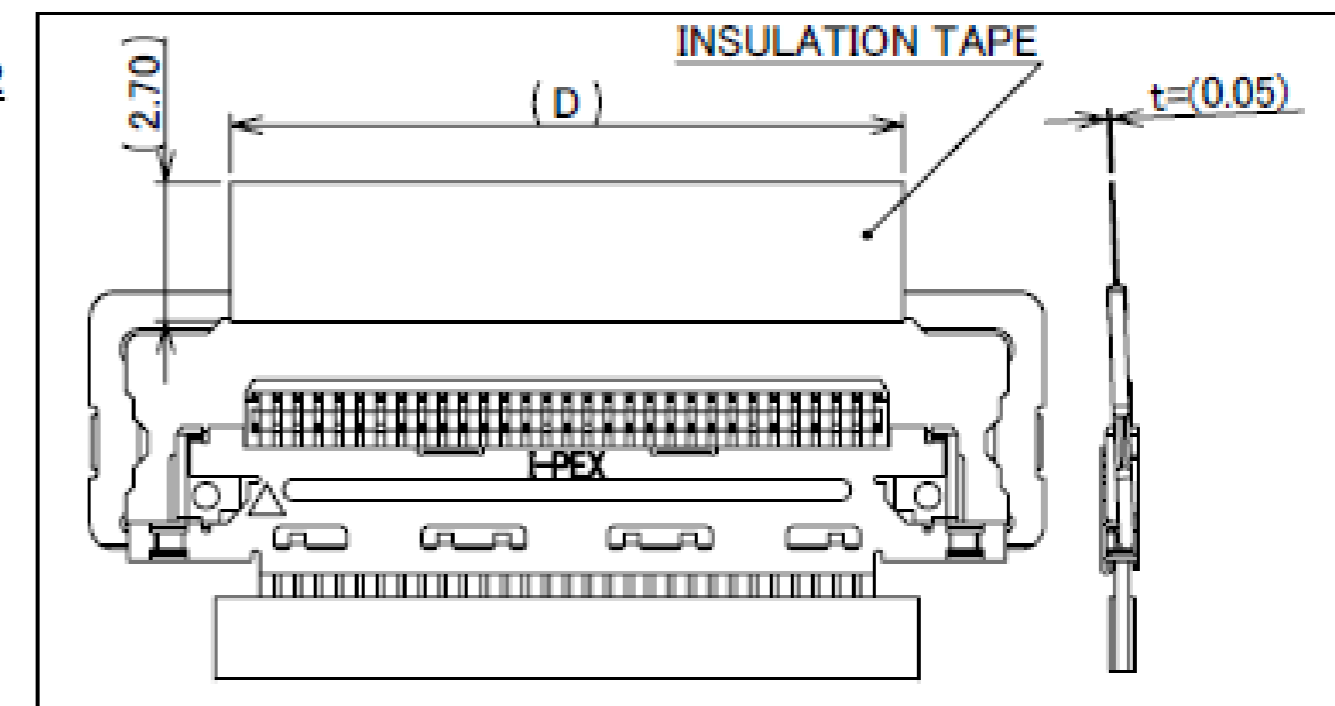
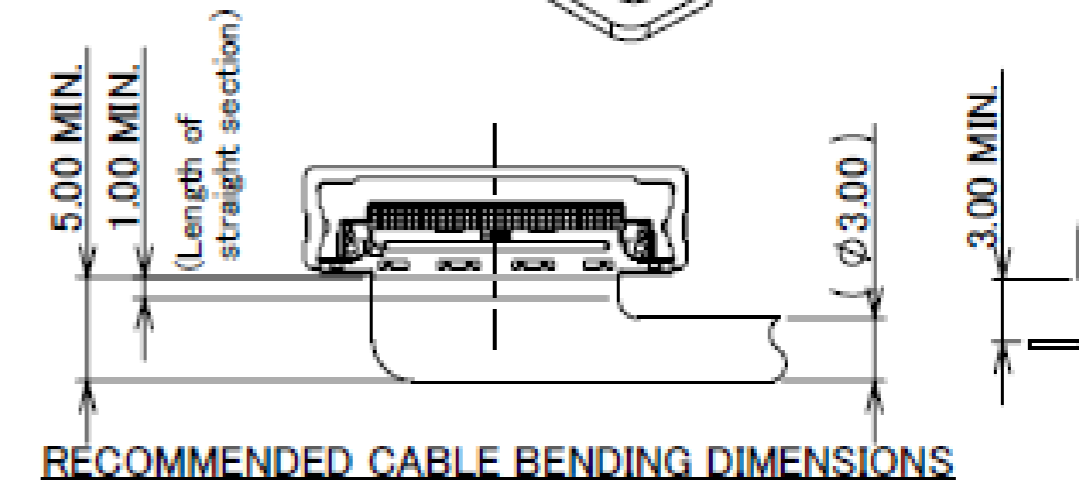
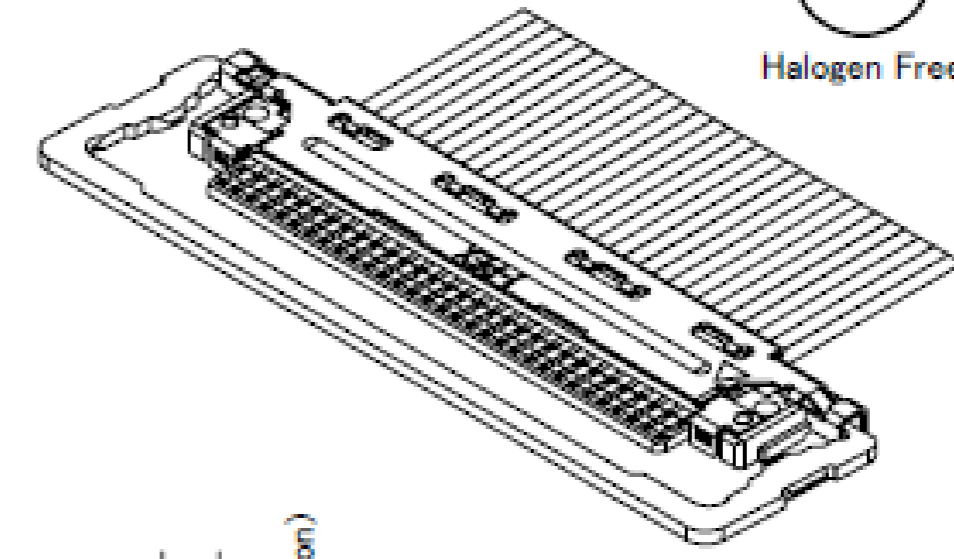
WITH LATCH BAR



SECT. X-X
(S=10/1)



LATCH MOVEMENTS

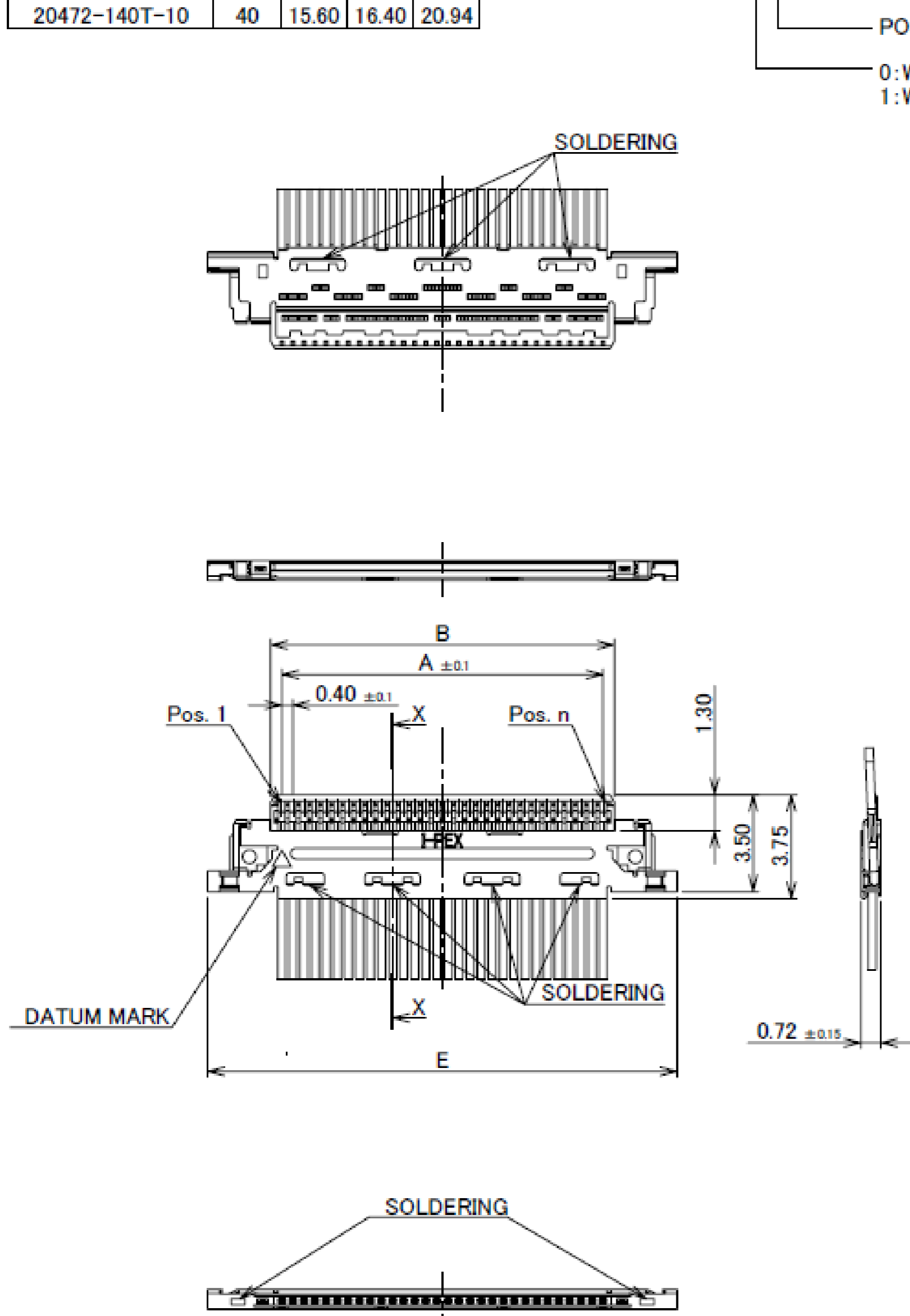


NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
5	LATCH BAR	SUS	
4	SHELL B	PHOSPHOR BRONZE	Au 0.05 μm MIN. OVER Ni 1.00 μm MIN.
3	SHELL A	PHOSPHOR BRONZE	Au 0.05 μm MIN. OVER Ni 1.00 μm MIN.
2	CONTACT	PHOSPHOR BRONZE	Au 0.1 μm MIN. OVER Ni 1.00 μm MIN.
1	HOUSING	LCP	UL94V-0, BLACK

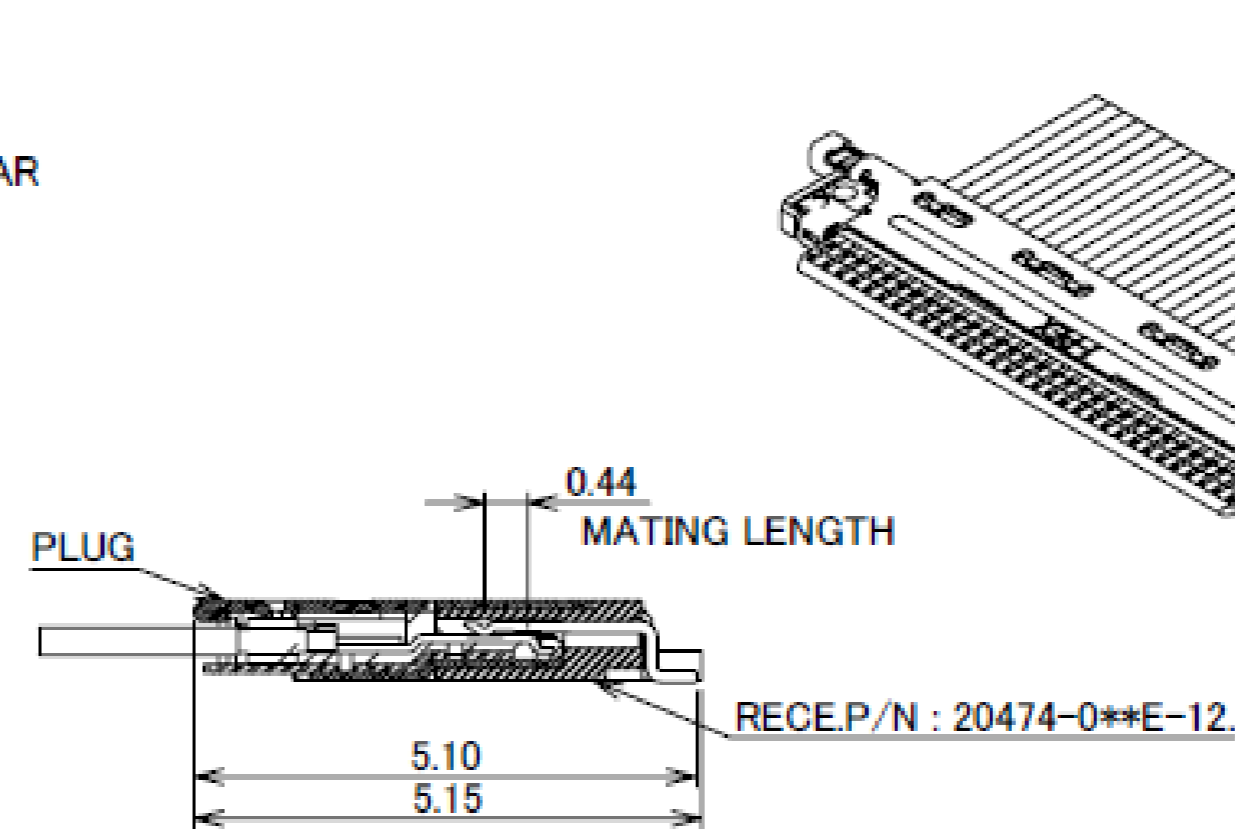
INSULATION TAPE RECOMMENDED DIMENSIONS

Recommended P/N		20472-0**T-10		
PART NO.	POS.	A	B	E
20472-130T-10	30	11.60	12.40	16.94
20472-140T-10	40	15.60	16.40	20.94

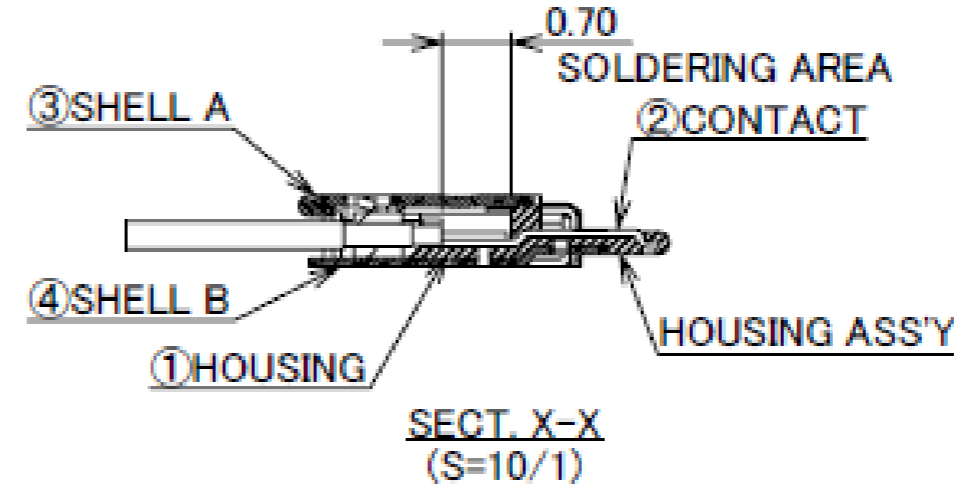
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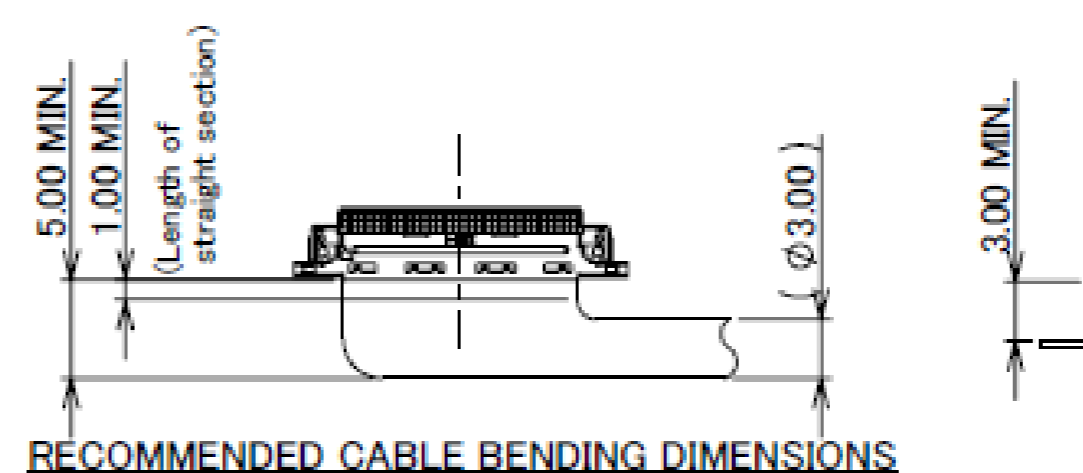
WITHOUT LATCH BAR



MATING CONDITION

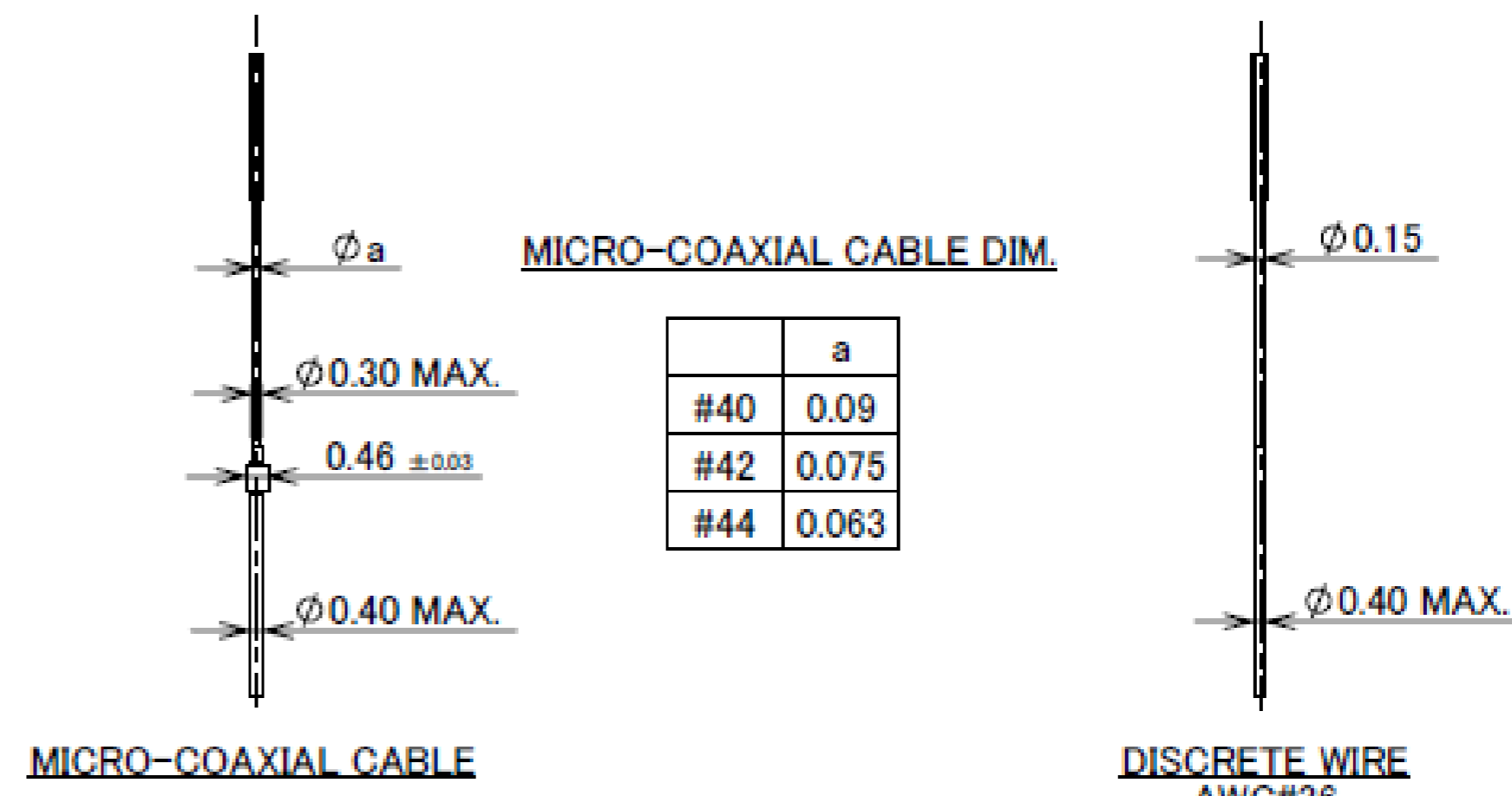
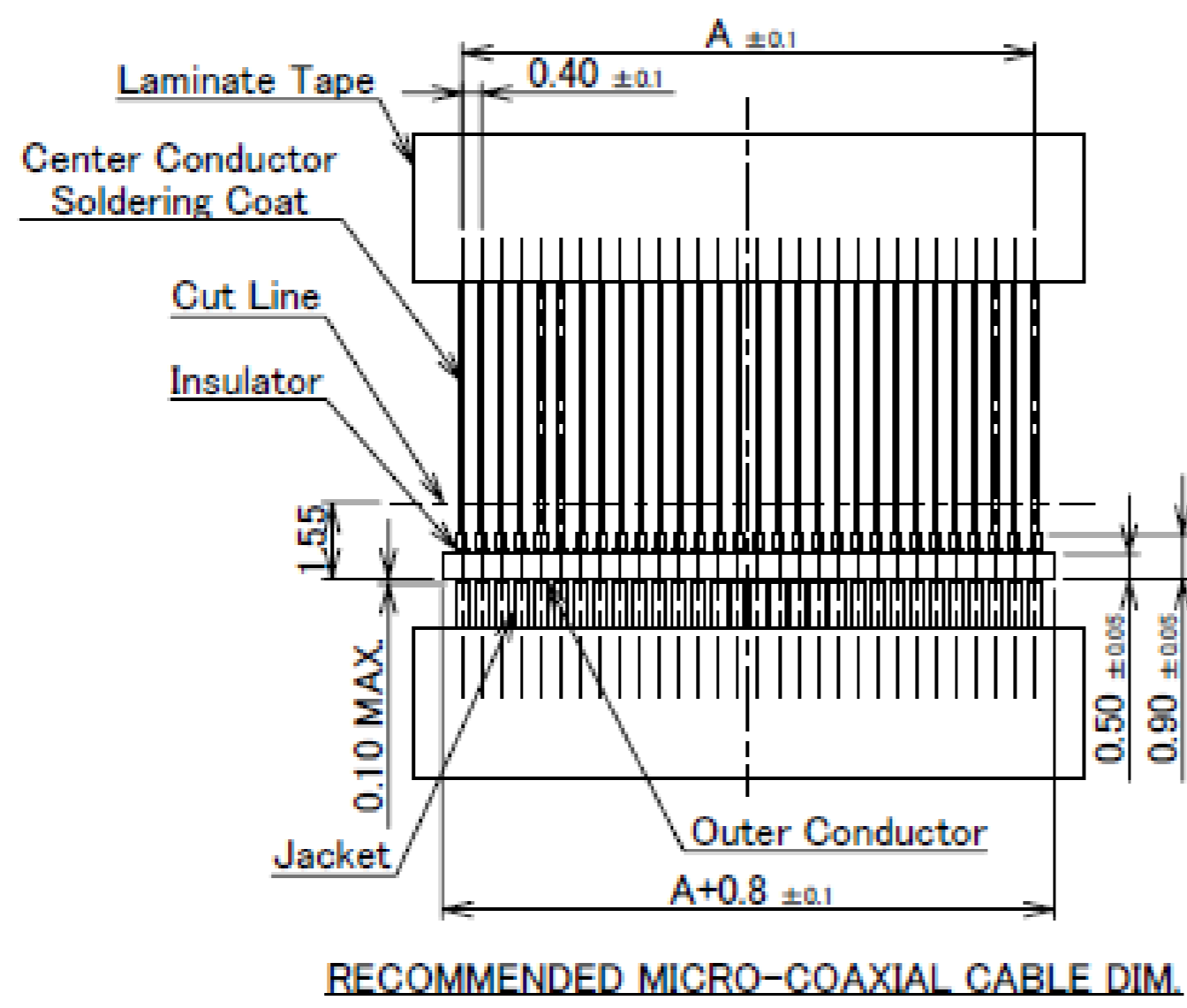


SECT. X-X
(S=10/1)



Plug for Cable Assembly

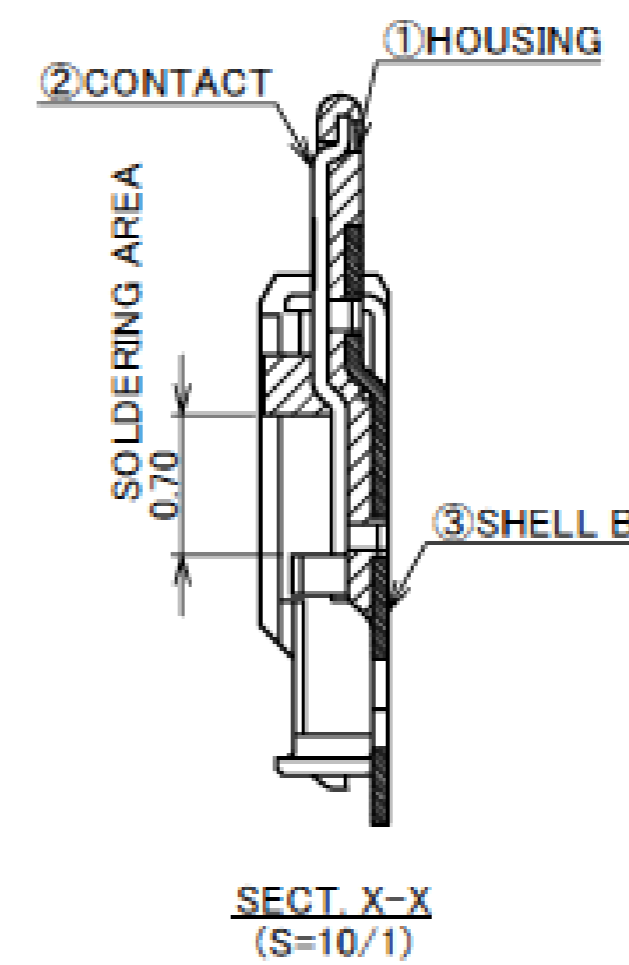
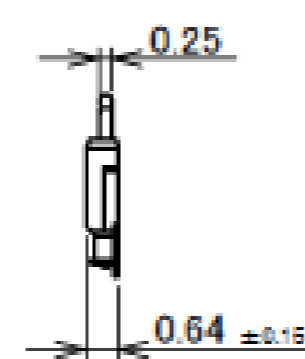
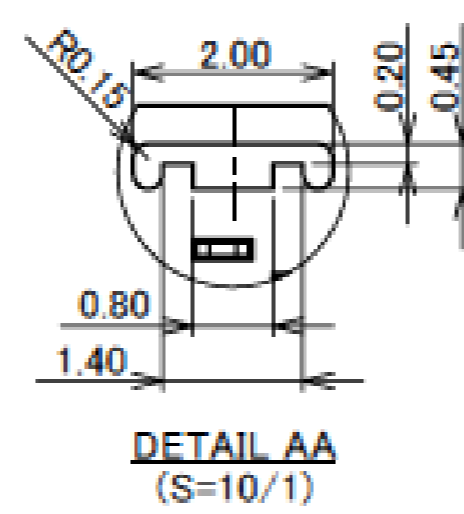
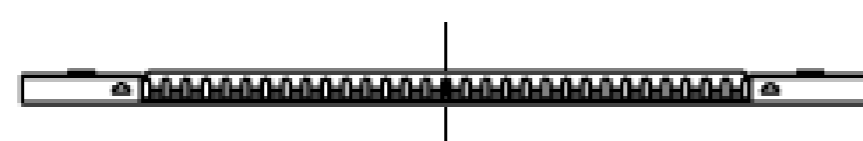
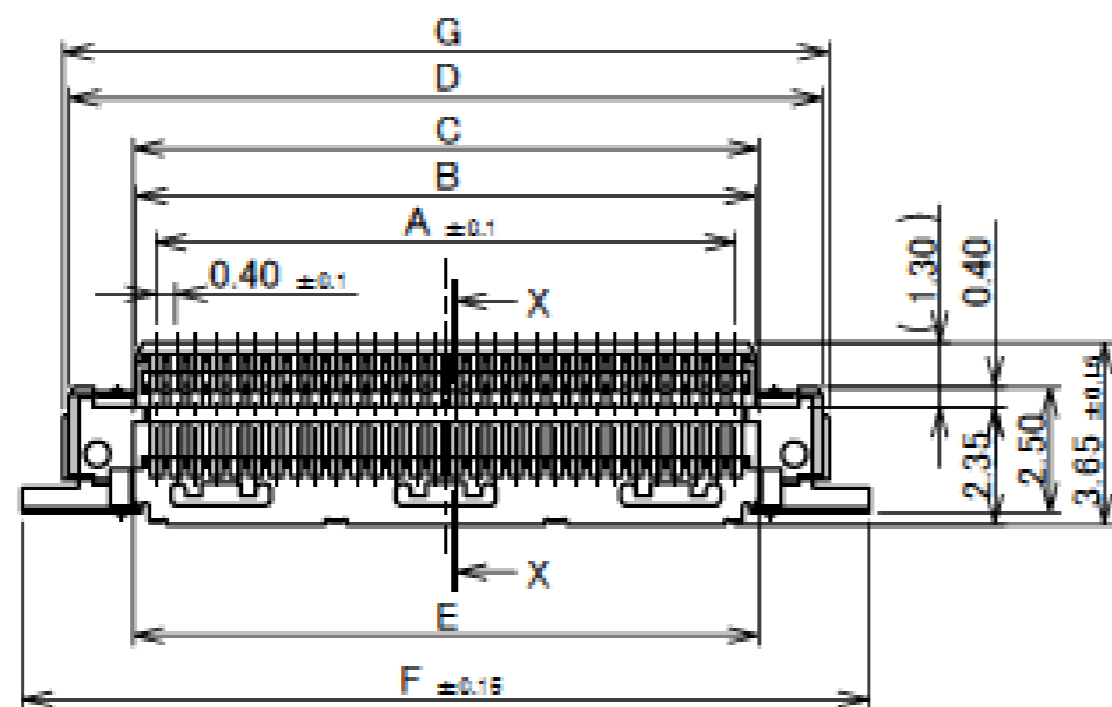
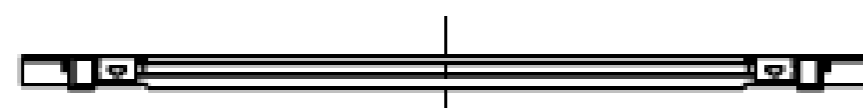
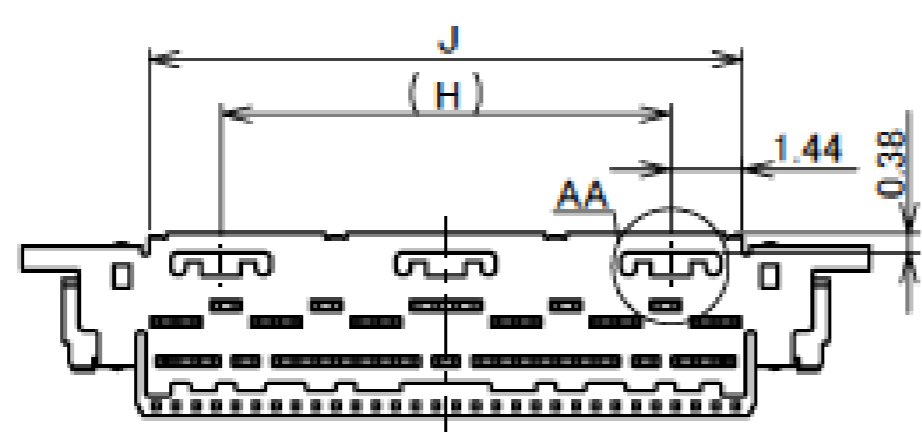
PART NO.	POS.	A
20472-#30T-10	30	11.60
20472-#40T-10	40	15.60



Rev.13

Plug Housing Assembly

Recommended P/N		20473-0**T-10									
PART NO.	POS.	A	B	C	D	E	F	G	H	J	
20473-030T-10	30	11.60	12.40	12.65	15.08	12.65	16.94	15.34	9.00	11.88	
20473-040T-10	40	15.60	16.40	16.65	19.08	16.65	20.94	19.34	13.00	15.88	



NOTES
 1. THIS PART IS ASSEMBLED WITH SHELL A(P/N 2618-0**1)
 AND LATCH BAR(P/N 2619-***0) AFTER SOLDERED THE CABLE,
 AND IT BECOMES P/N 20472-0**T-10

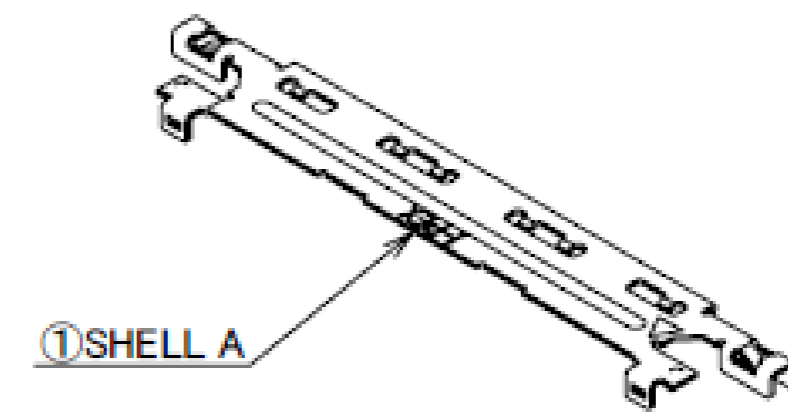
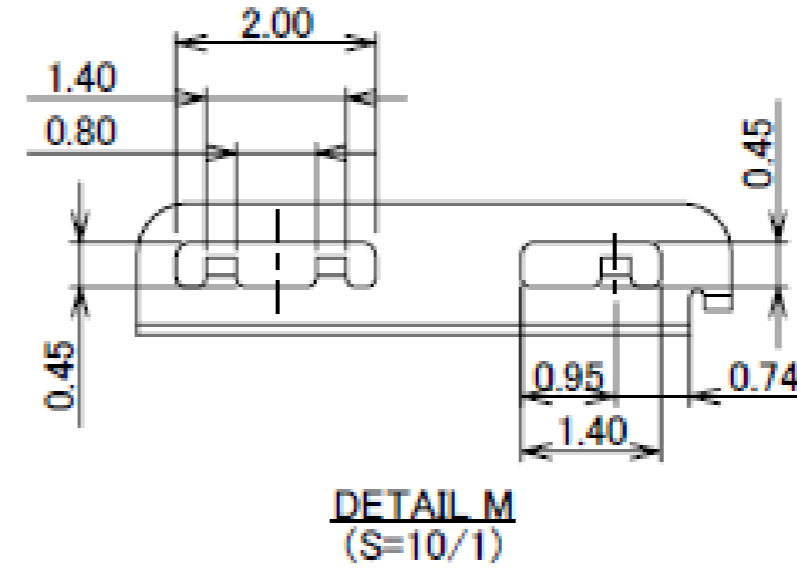
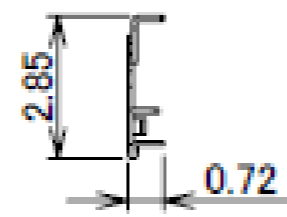
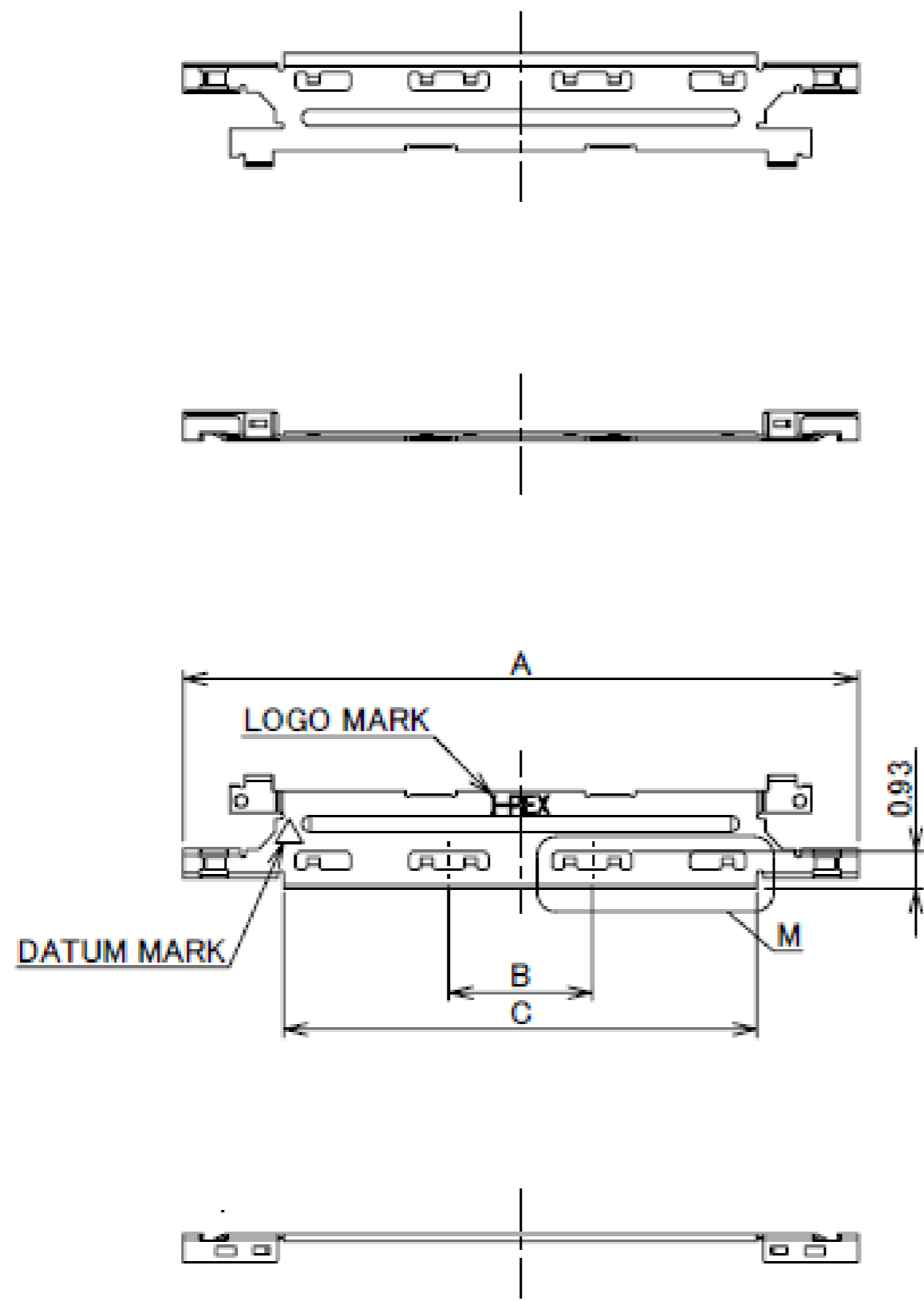
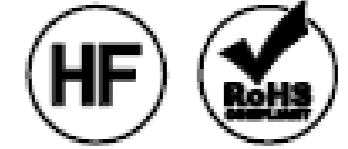
NO	DISCRIPTION	MATERIAL	FINISH , REMARKS
3	SHELL B	PHOSPHOR BRONZE	Au 0.05 μm MIN. OVER Ni 1.00 μm MIN.
2	CONTACT	PHOSPHOR BRONZE	Au 0.1 μm MIN. OVER Ni 1.00 μm MIN.
1	HOUSING	LCP	UL94V-0, BLACK

Rev.6

Plug Shell-A

Recommended P/N		2618-0**1		
PART NO.	POS.	A	B	C
2618-0301	30	16.94	3.60	11.88
2618-0401	40	20.94	5.60	15.88

P/N:2618-0**1
POS.



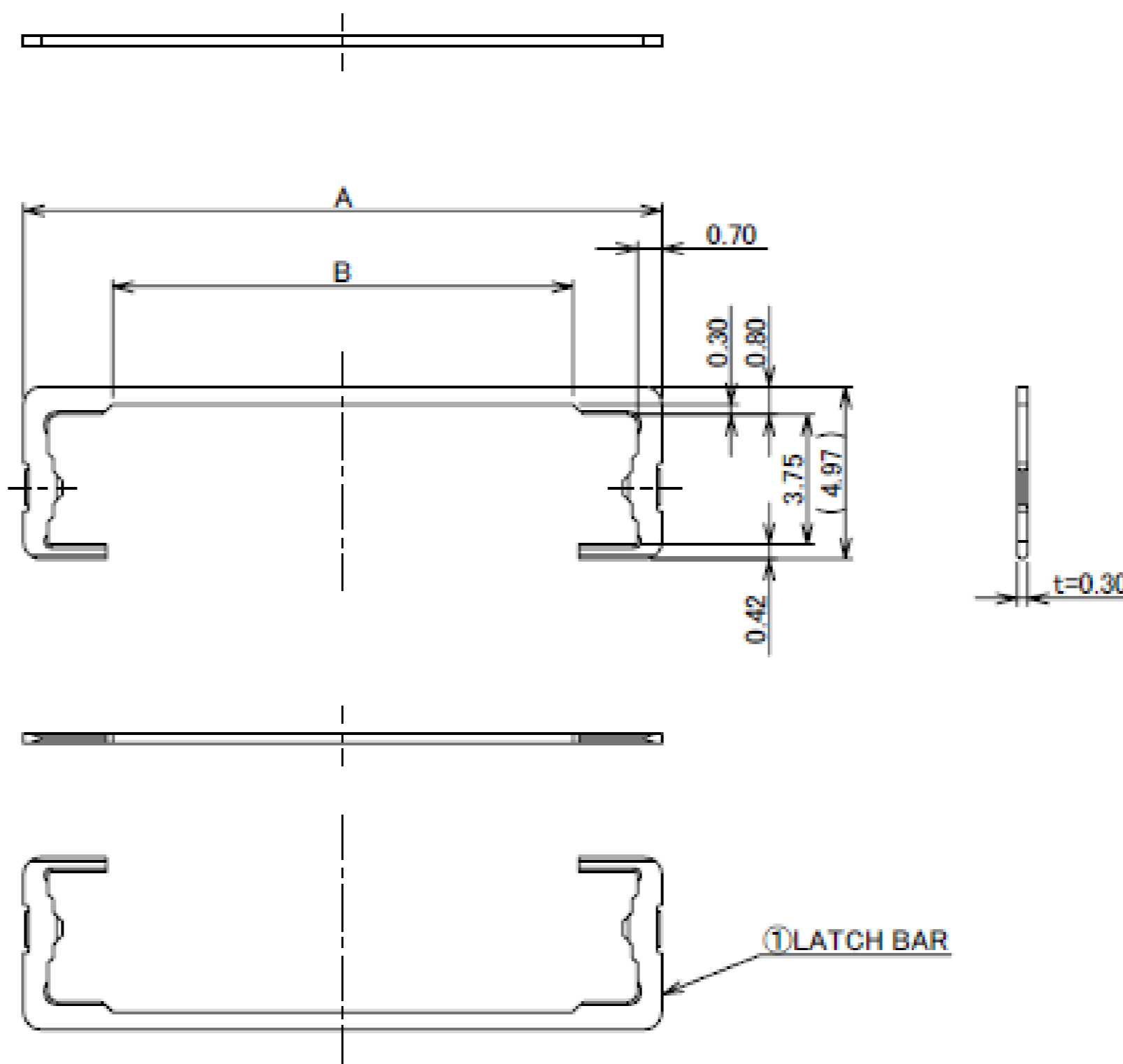
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
1	SHELL A	PHOSPHOR BRONZE	Au 0.05 μm MIN. OVER Ni 1.00 μm MIN.

Rev.5

Plug Latch Bar

Recommended P/N		2619-0**0	
PART NO.	POS.	A	B
2619-0300	30	18.44	13.00
2619-0400	40	22.44	17.00

2619-0**0
POS.

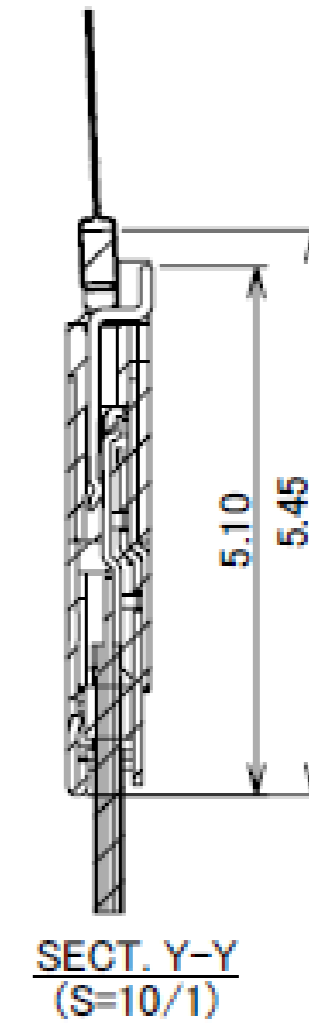
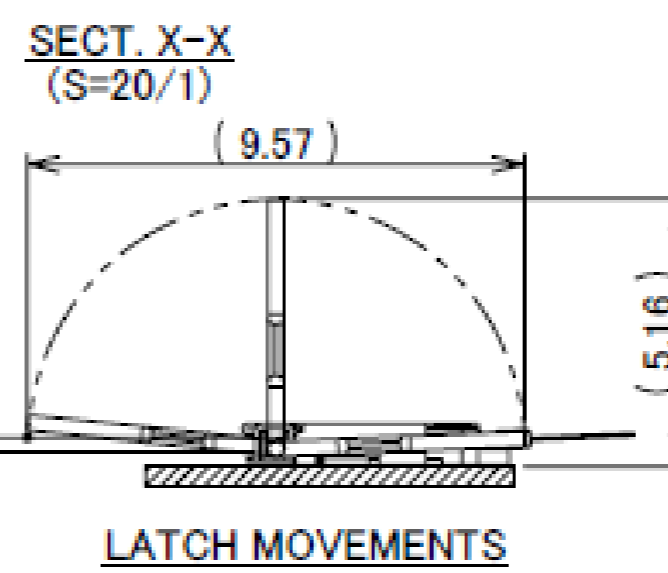
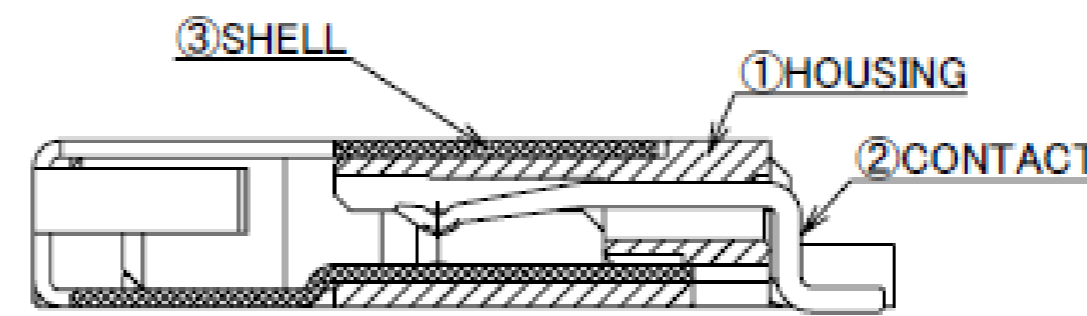
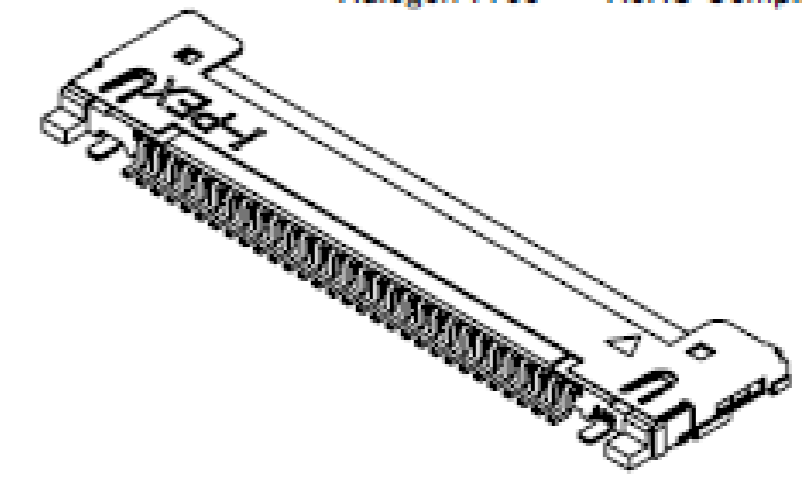
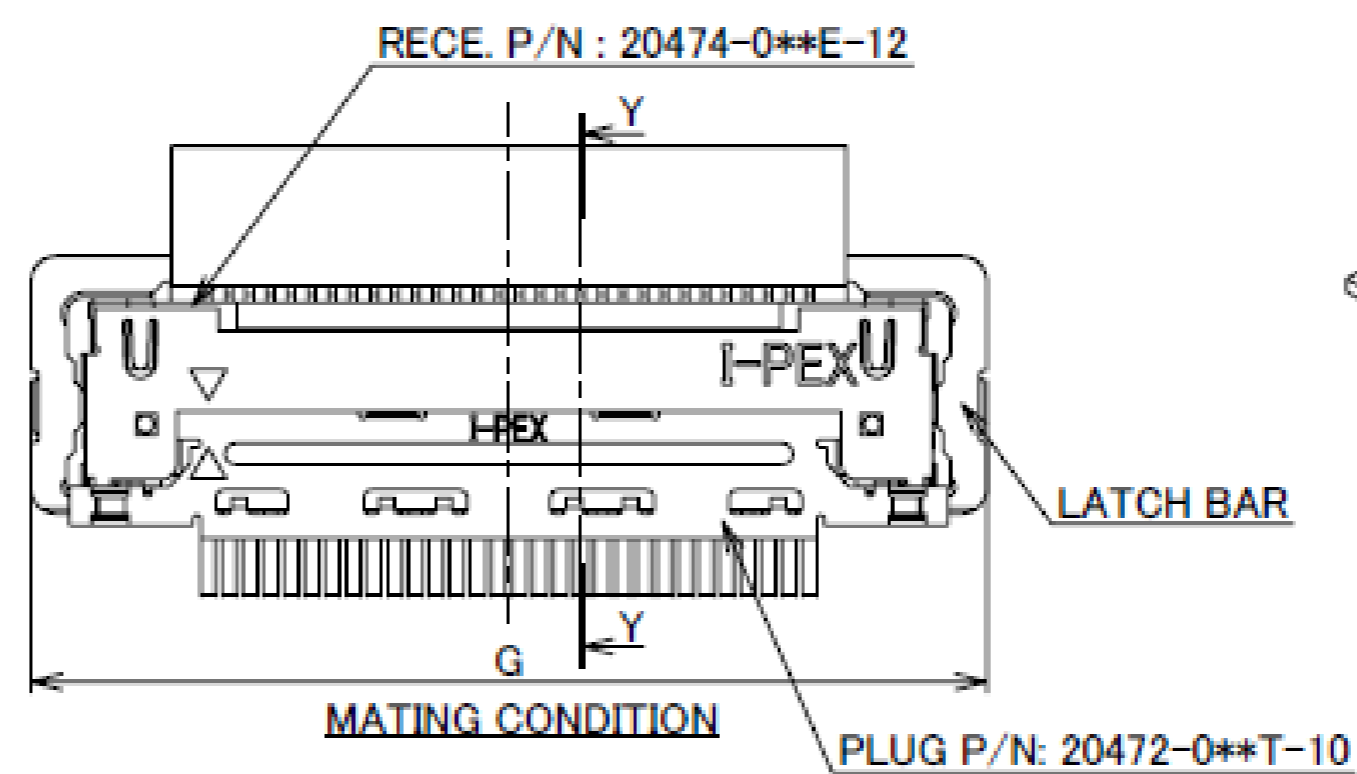
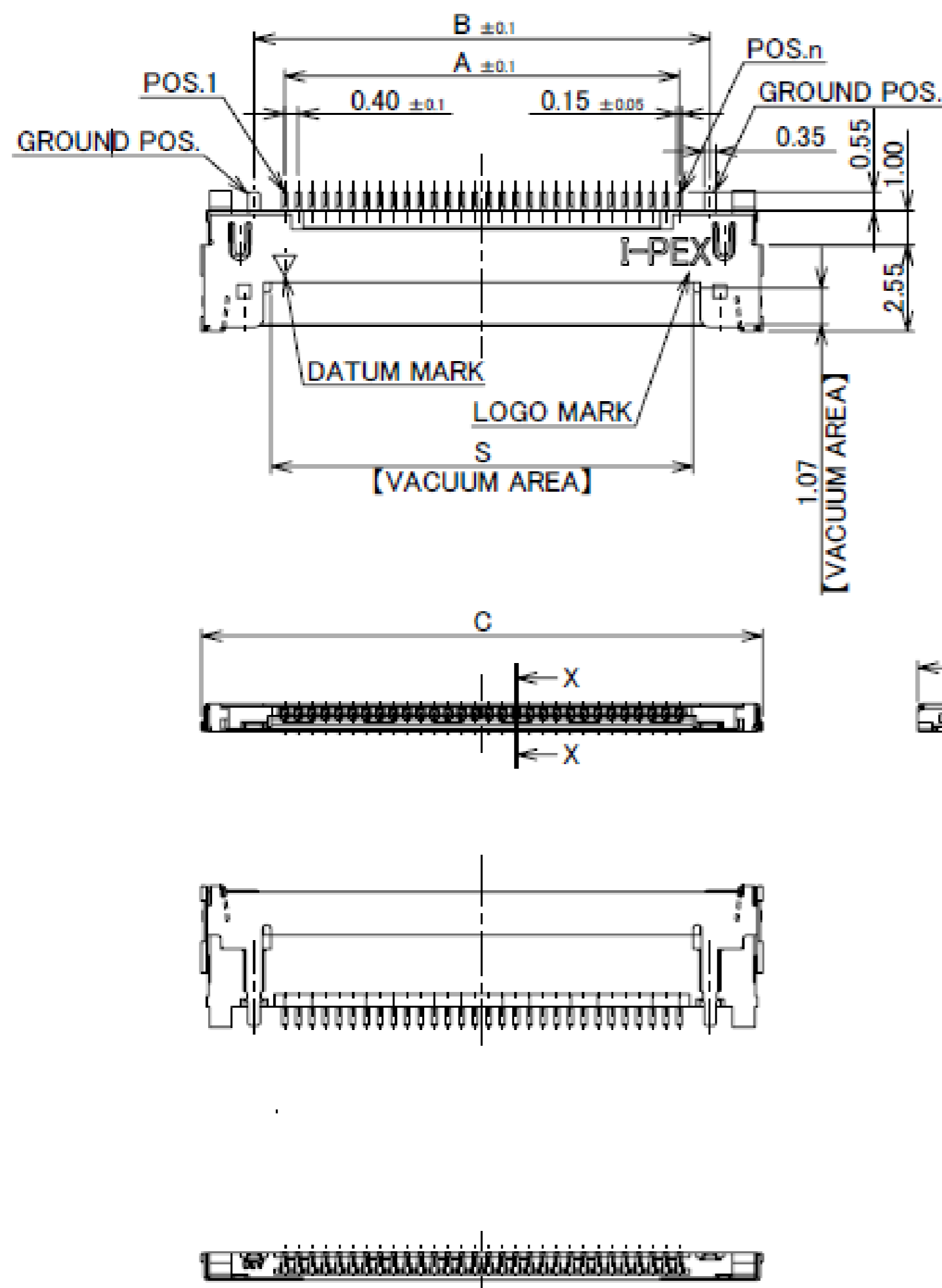


NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
1	LATCH BAR	SUS	-

Rev.7

Receptacle Assembly

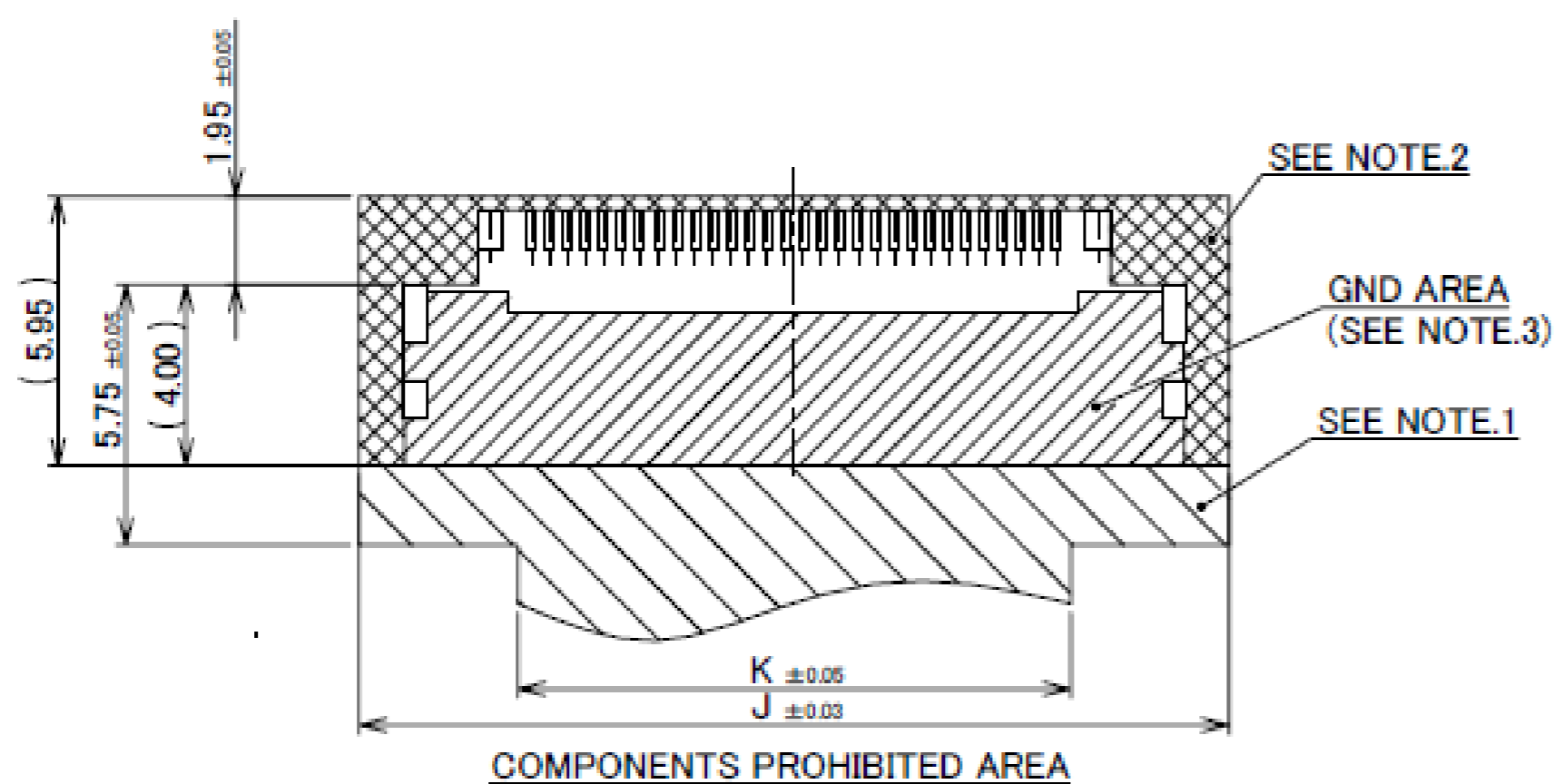
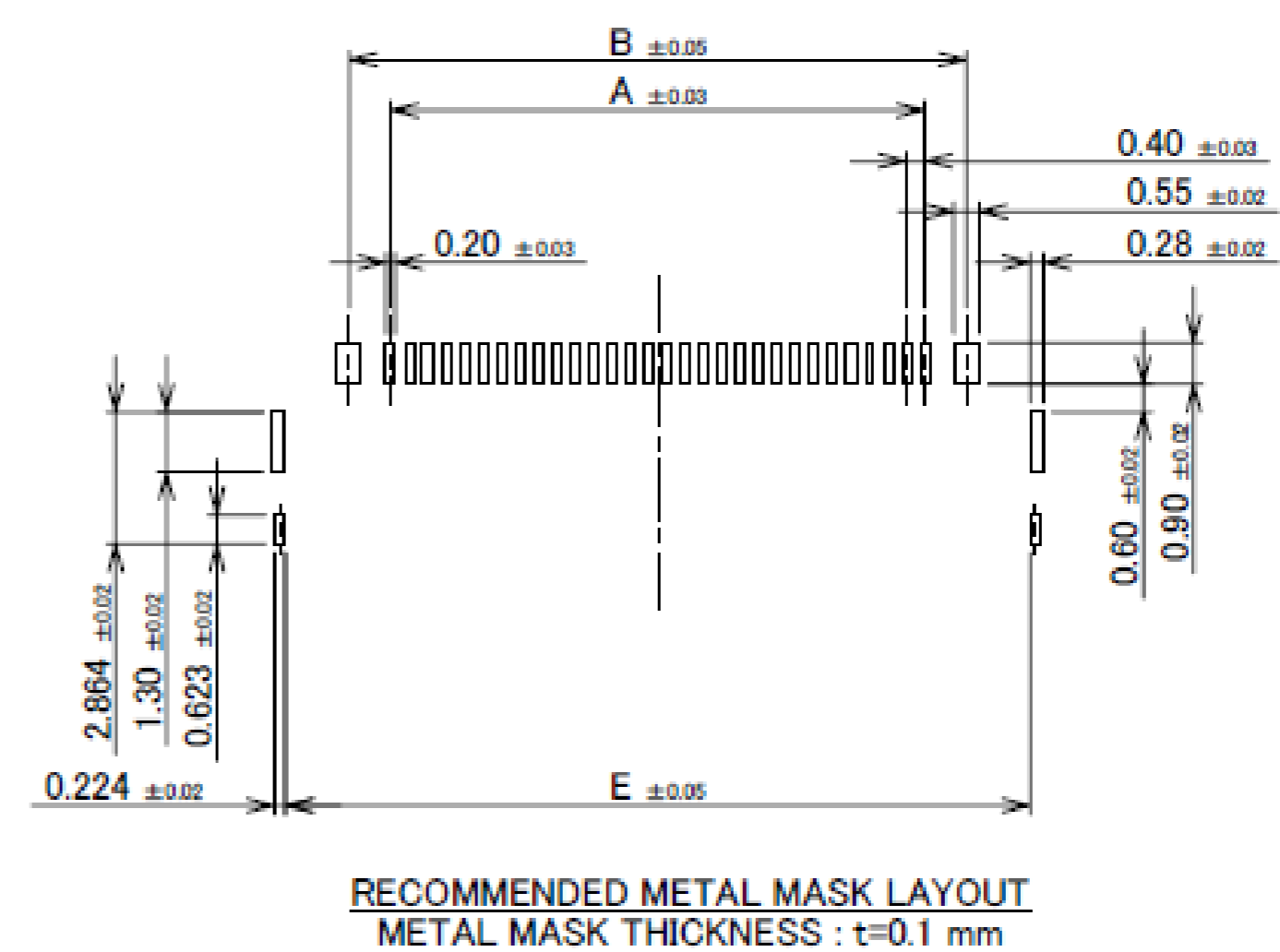
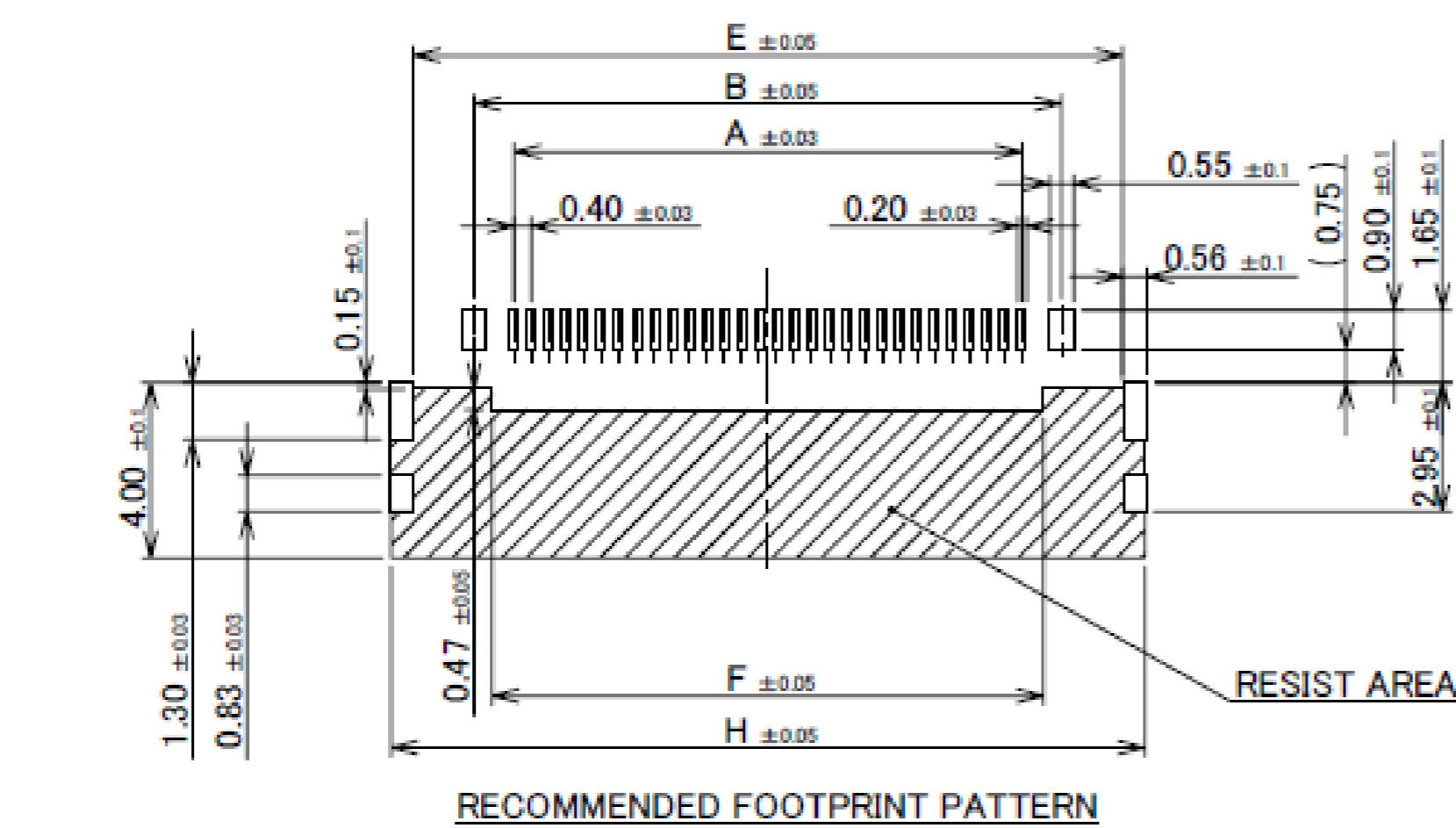
Recommended P/N		20474-0**E-12				
PART NO.	POS.	A	B	C	G	S
20474-030E-12	30	11.60	13.40	16.50	18.44	12.40
20474-040E-12	40	15.60	17.40	20.50	22.44	16.40



NO.	DISCRIPTION	MATERIAL	FINISH . REMARKS
3	SHELL	PHOSPHOR BRONZE	Au 0.05 μm MIN. OVER Ni 1.00 μm MIN.
2	CONTACT	PHOSPHOR BRONZE	CONTACT AREA : Au 0.1 μm MIN. OVER Ni 1.00 μm MIN. SOLDERING AREA : Au 0.03 μm MIN. OVER Ni 1.00 μm MIN.
1	HOUSING	LCP	UL94V-0, BLACK

Rev.13

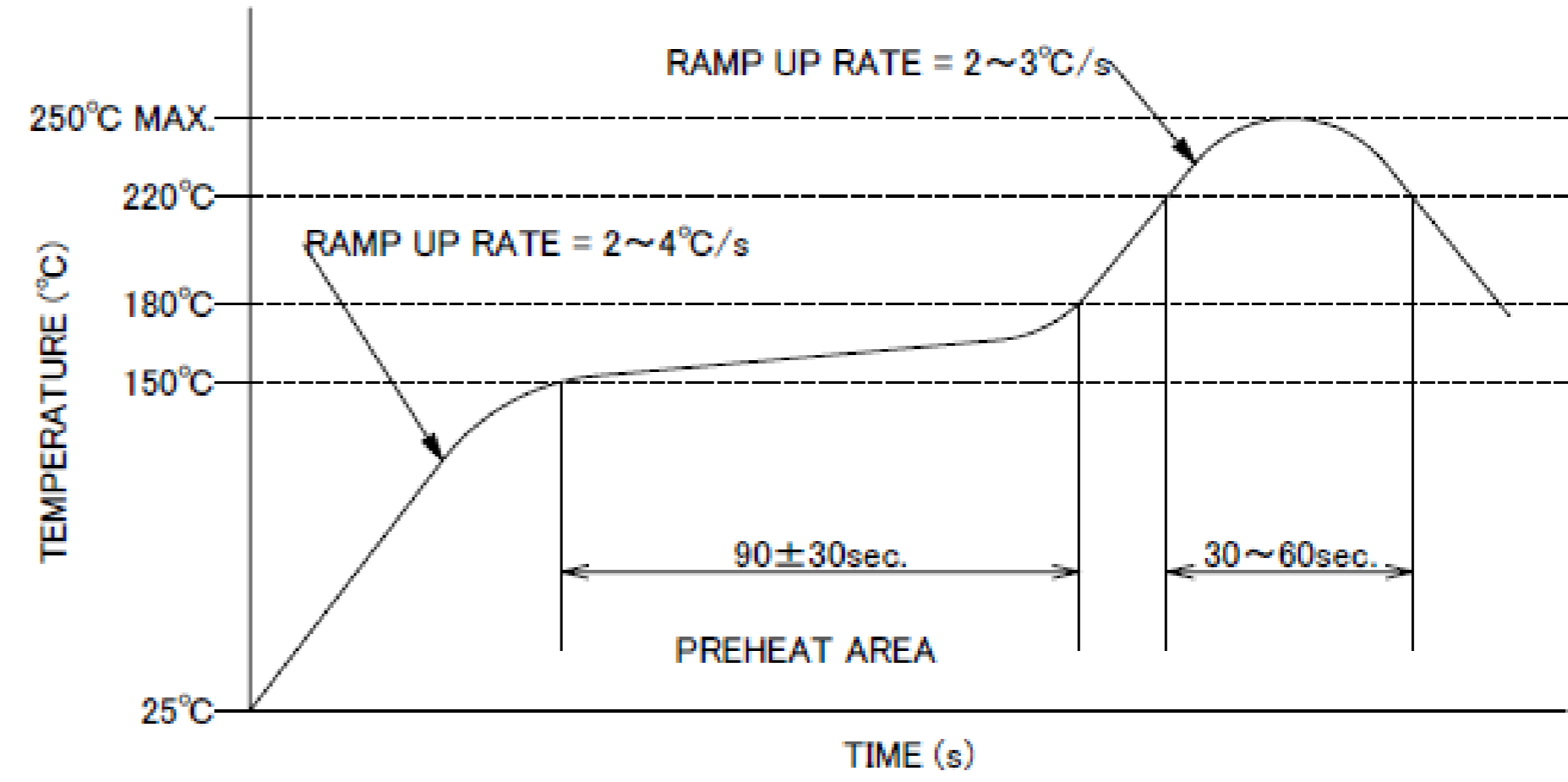
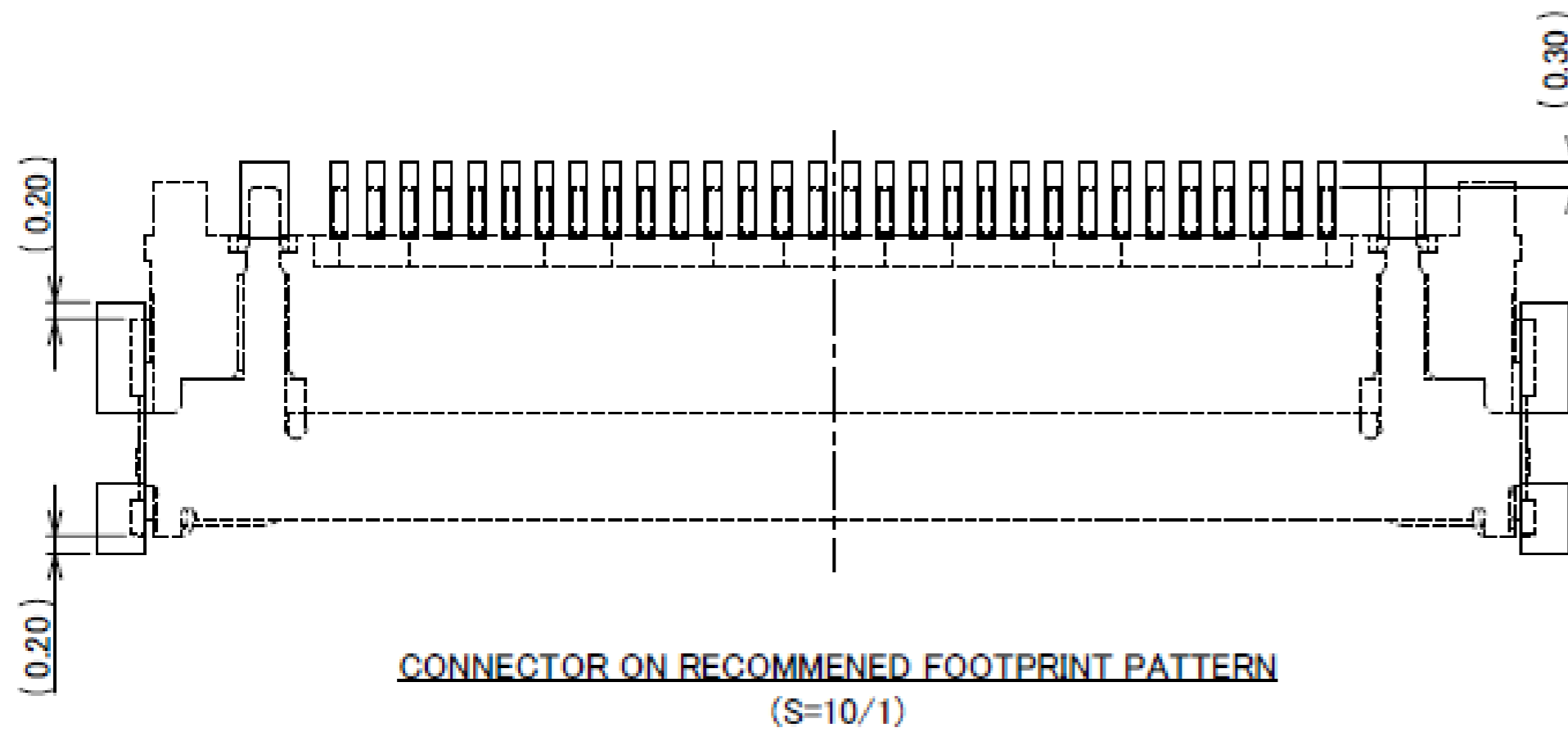
PART NO.	POS.	A	B	E	F	H	J	K
20474-030E-12	30	11.60	13.40	16.18	12.59	17.20	19.20	12.20
20474-040E-12	40	15.60	17.40	20.18	16.59	21.20	23.20	16.20



- NOTES.
- DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.
 - IN CASE OF PLUG WITH LATCH BAR(20472-0**T-10), DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.
 - SODLER RESIST MUST BE APPLIED TO THIS AREA.

Rev.13

Receptacle Assembly



Rev.13

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 40, 42, 44 DISCRETE WIRE : AWG# 36
RATING VOLTAGE	100V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR CONTACT)	0.1A AC/DC [AWG#44] PER CONTACT PIN 0.24A AC/DC [AWG#42] PER CONTACT PIN 0.3A AC/DC [AWG#40] PER CONTACT PIN 0.8A AC/DC [AWG#36] PER CONTACT PIN
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 275mohm MAX. (AWG#36) / AFTER TEST : \triangle 40mohm MAX. 600mohm MAX. (AWG#40) 700mohm MAX. (AWG#42) 1080mohm MAX. (AWG#44)
GROUND SHELL RESISTANCE	INITIAL : 50mohm MAX. / AFTER TEST : \triangle 40mohm MAX.
INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	30P : 10N MAX. 40P : 12N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 3.0N MIN. 40P : 4.0N MIN.
CABLE RETENTION FORCE	30P : 14.70N MIN. 40P : 19.60N MIN.
PRODUCT SPECIFICATION	PRS-1421
TEST REPORT	TR-08030
INSTRUCTION MANUAL	HIM-09002
ASSEMBLY MANUAL	ASM-09002
APPEARANCE CRITERIA No.	QLS-A***


Rev.13

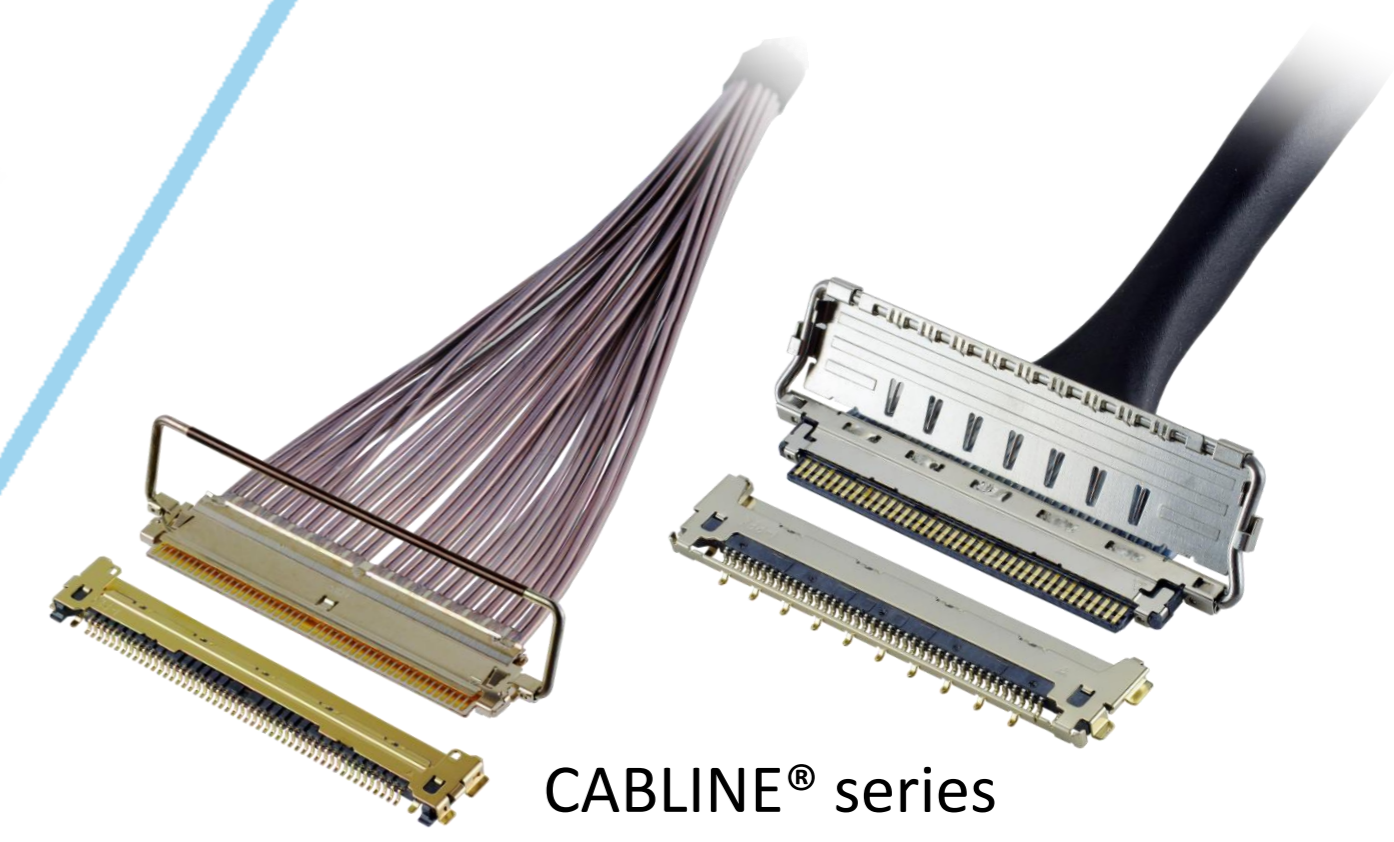
Custom Connectors Available

 RF Connector

MHF® series



 CABLINE® series
Micro-coaxial/Twinax/
Discrete Wire Connector



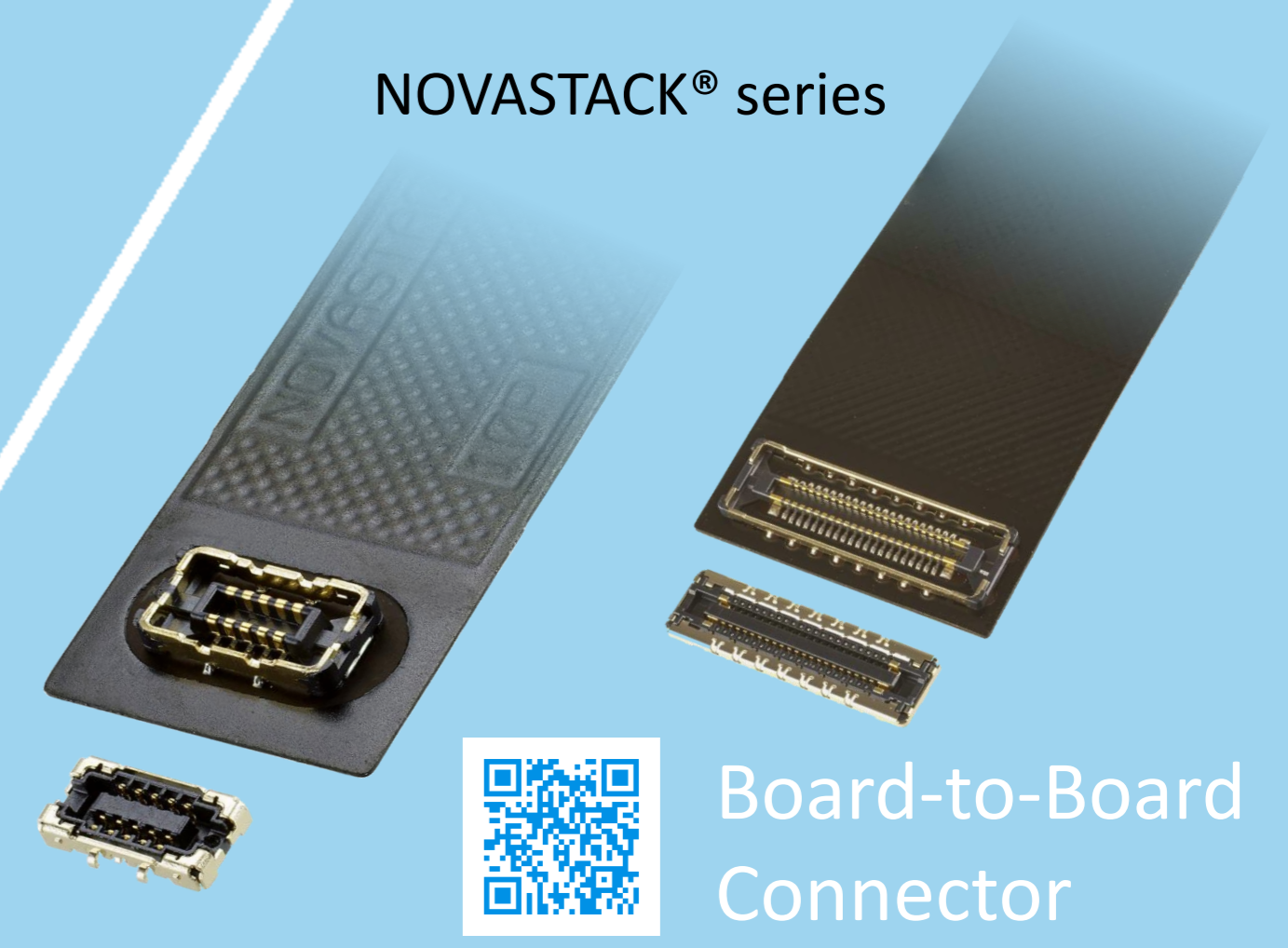
 Optical Module

LIGHTPASS® series



NOVASTACK® series

 Board-to-Board Connector



 Power Connector/
Terminal

AP series

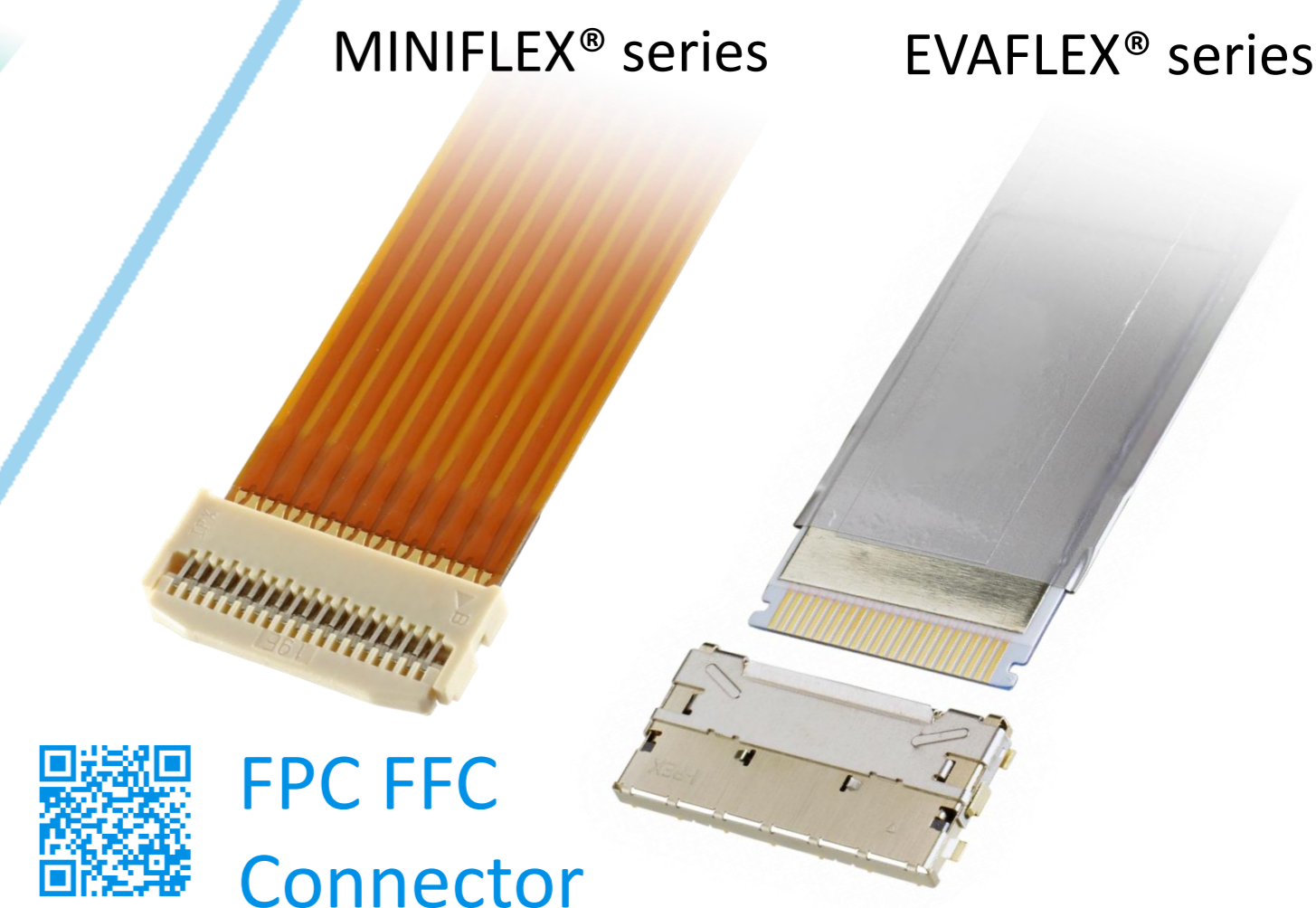
ISH® series



MINIFLEX® series

EVAFLEX® series

 FPC FFC
Connector

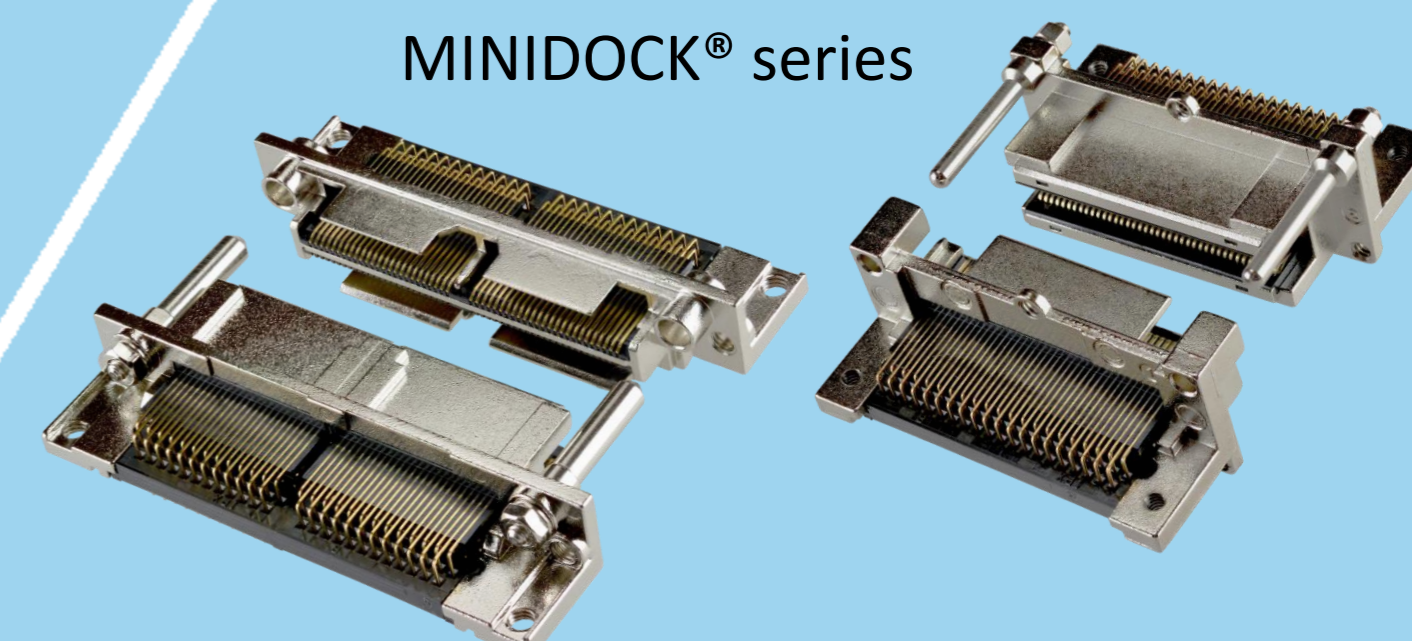


Inquiry



MINIDOCK® series

 I/O
Connector



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Contact your sales representative or more detailed information.

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