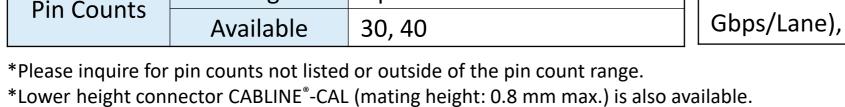
Micro-Coaxial Connector

CABLINE[®]-CBL

Suitable for high-data-rate transfer (20 Gbps/lane), Low mating height (Height = 0.975 mm max.), Mechanical lock with shielding and multi-point ground, 0.4 mm pitch, Horizontal mating type Micro-coaxial connector

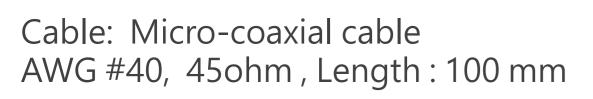
Product Specif	ications:	,	_ Applicable Cable Size:				
Matir	ng type	Horizontal	Maximum O.D. (mm)	0.4			
Board P	itch (mm)	0.4	Micro-Coaxial	45 ohm: #40 or smaller wire			
Wiping Le	ength (mm)	0.44	for Signal (AWG)	50 ohm: #40 or smaller wire			
	Height	0.975 Max	Twinax (AWG)	-			
Mated size (mm)	Width	Formula: 6.44 + (0.4*?p)	Discrete (AWG)	#36 or smaller wire			
	Depth	5.44	Applicable Standards (Reference Only):				
Din Counte	Range	Up to 40	DP UHBR20 (20 Gbps/ Lane), V-by-One [®] US (16				
Pin Counts	Available	30, 40	Gbps/Lane), HDMI 2.	1 (12 Gbps/ Lane)			



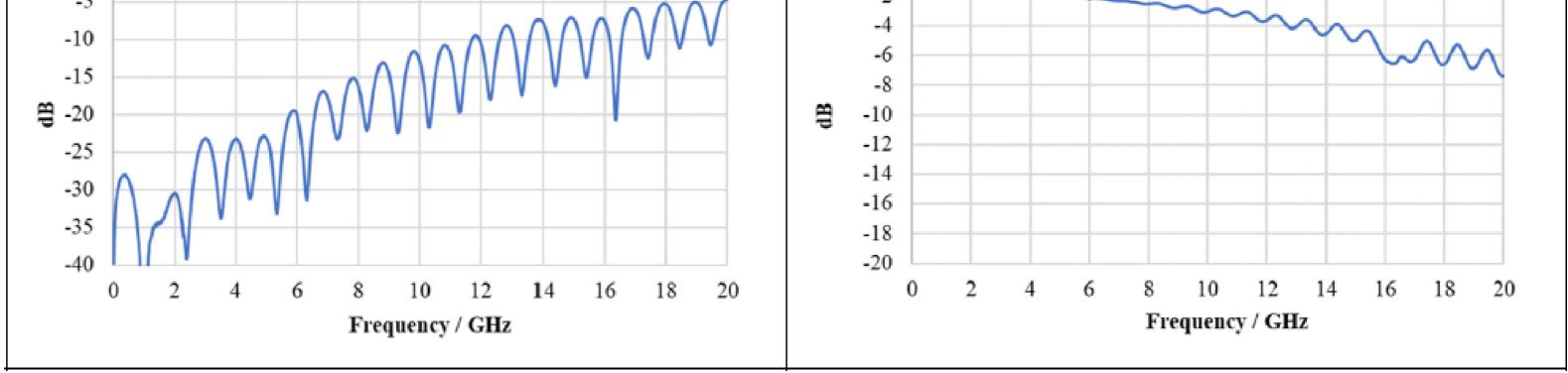
High-data-rate transfer, ideal for 20 Gbps/lane applications

Return Loss (SDD11) Insertion Loss (SDD21) Measurement results Connector: CABLINE-CBL 40P

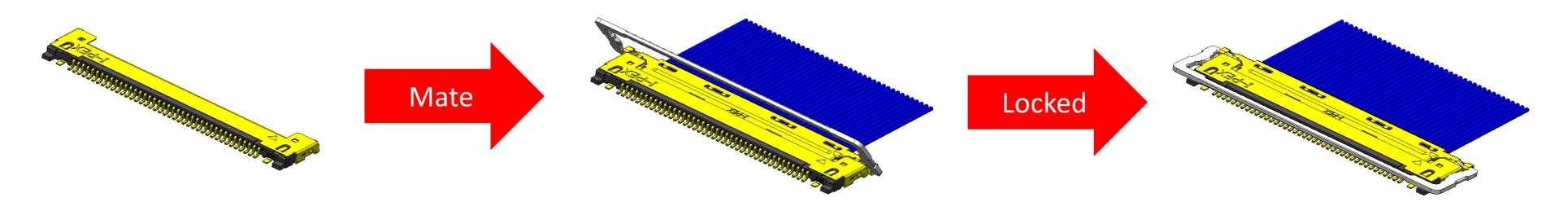




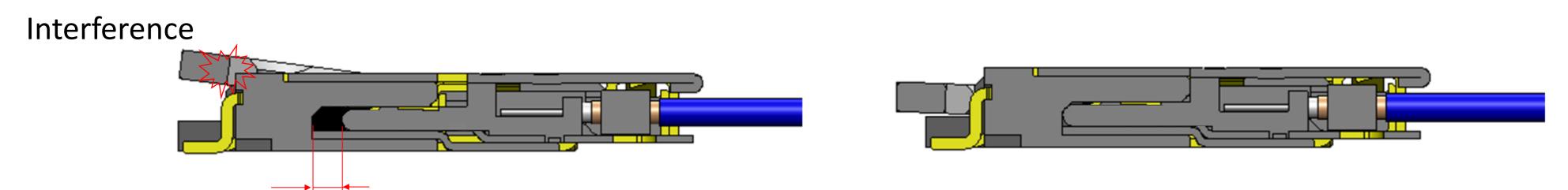
Pin Assignment: GSSGSSG



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

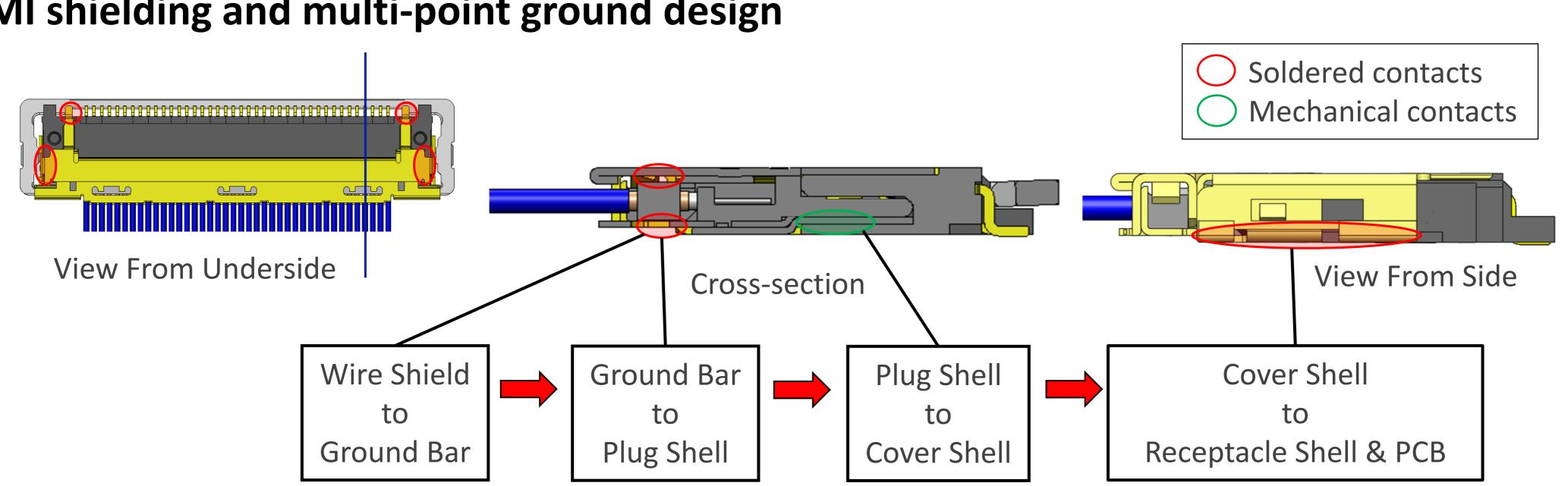


Mechanical locking bar only locks when plug is fully mated to receptacle.





Complete mating



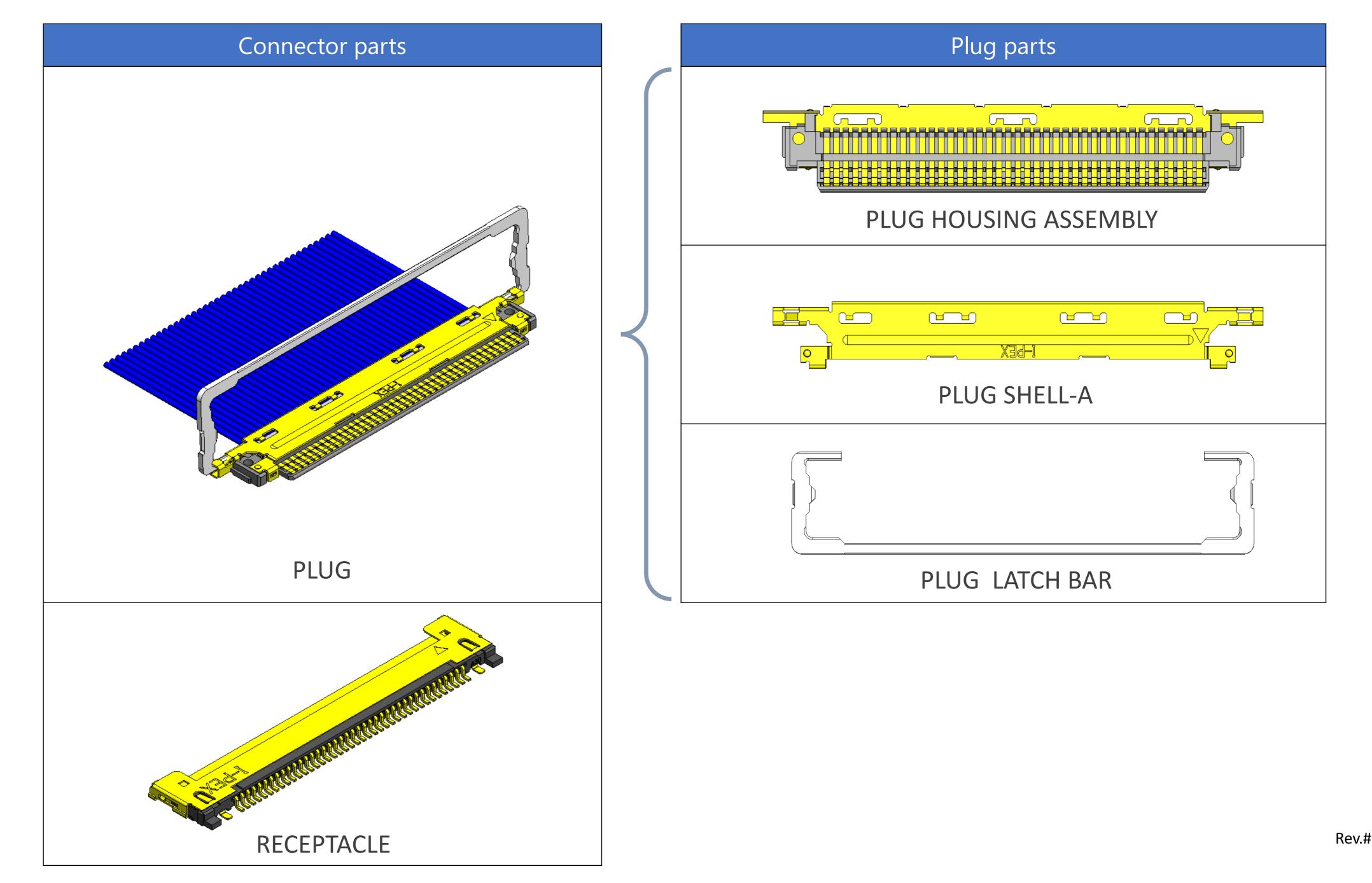
EMI shielding and multi-point ground design



Contact your sales representative for more detailed information. <u>www.i-pex.com</u>

Component Parts Details

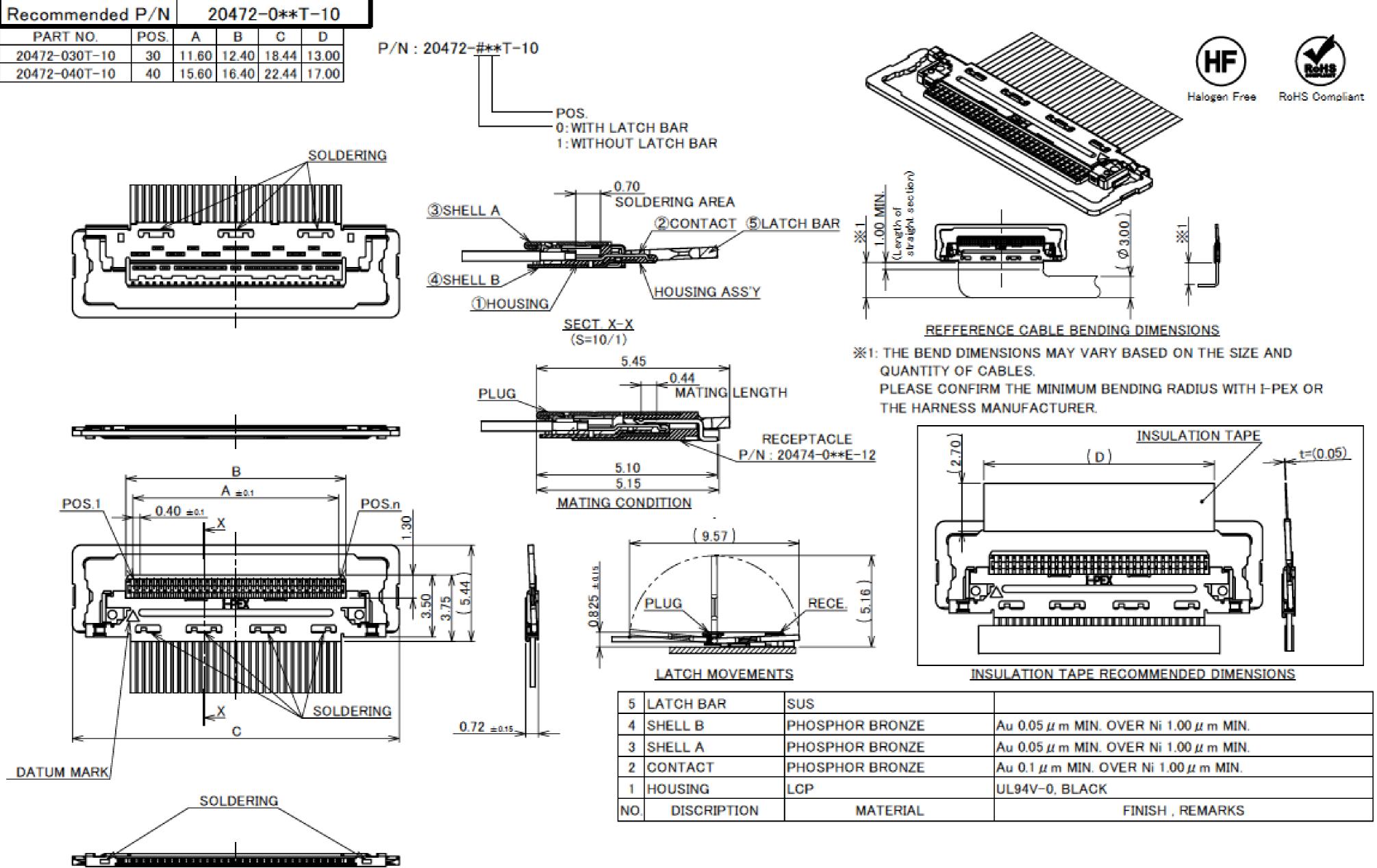
Component Parts



I-PEX

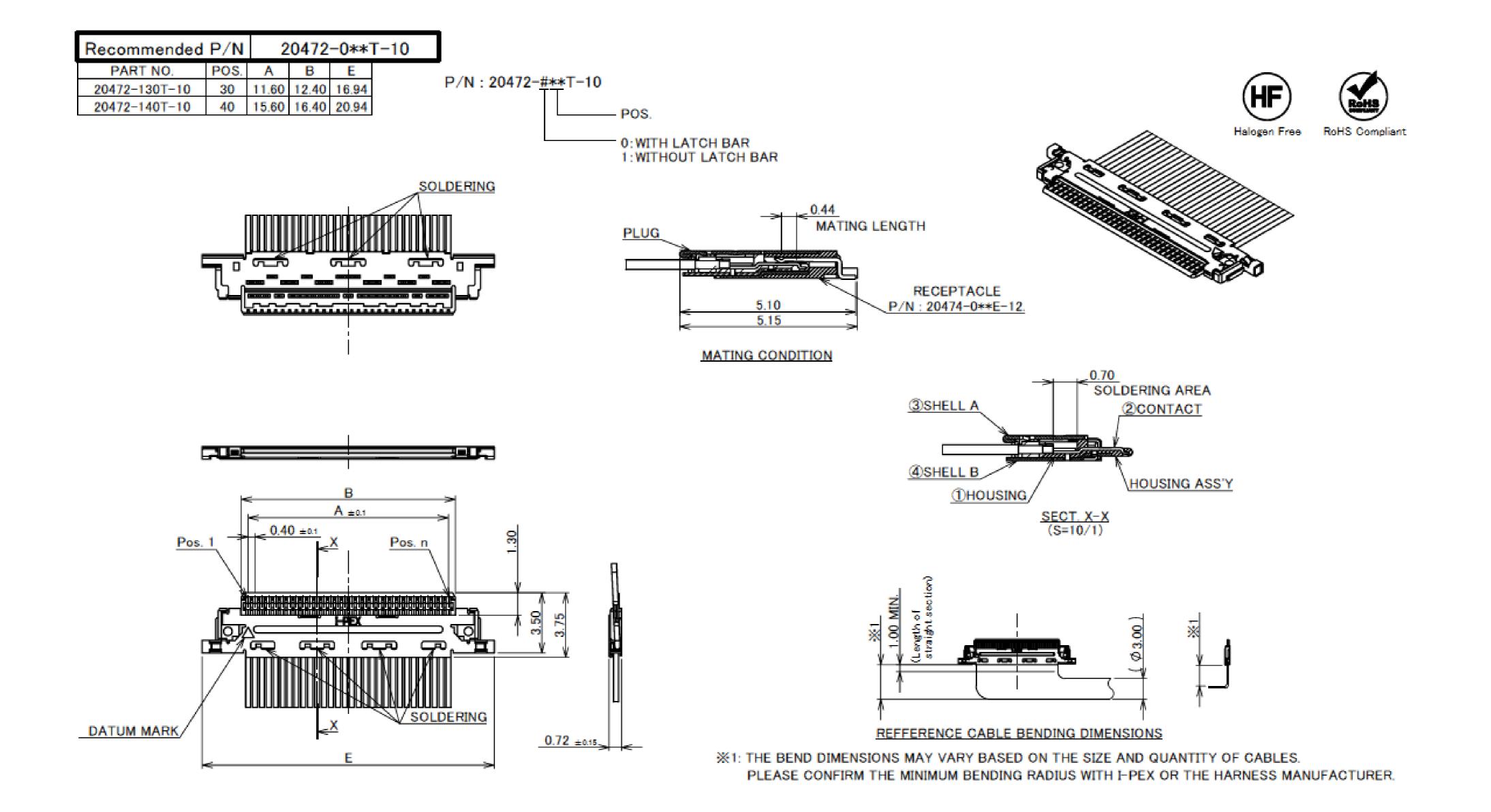
Contact your sales representative for more detailed information. <u>www.i-pex.com</u>

Plug for Cable Assembly

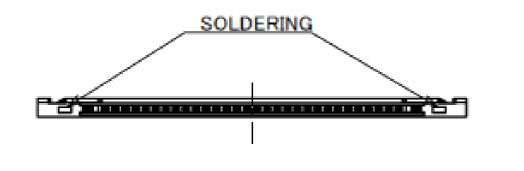


5	LATCH BAR	SUS	
4	SHELL B	PHOSPHOR BRONZE	Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.
3	SHELL A	PHOSPHOR BRONZE	Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.
2	CONTACT	PHOSPHOR BRONZE	Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

WITH LATCH BAR



Rev.15



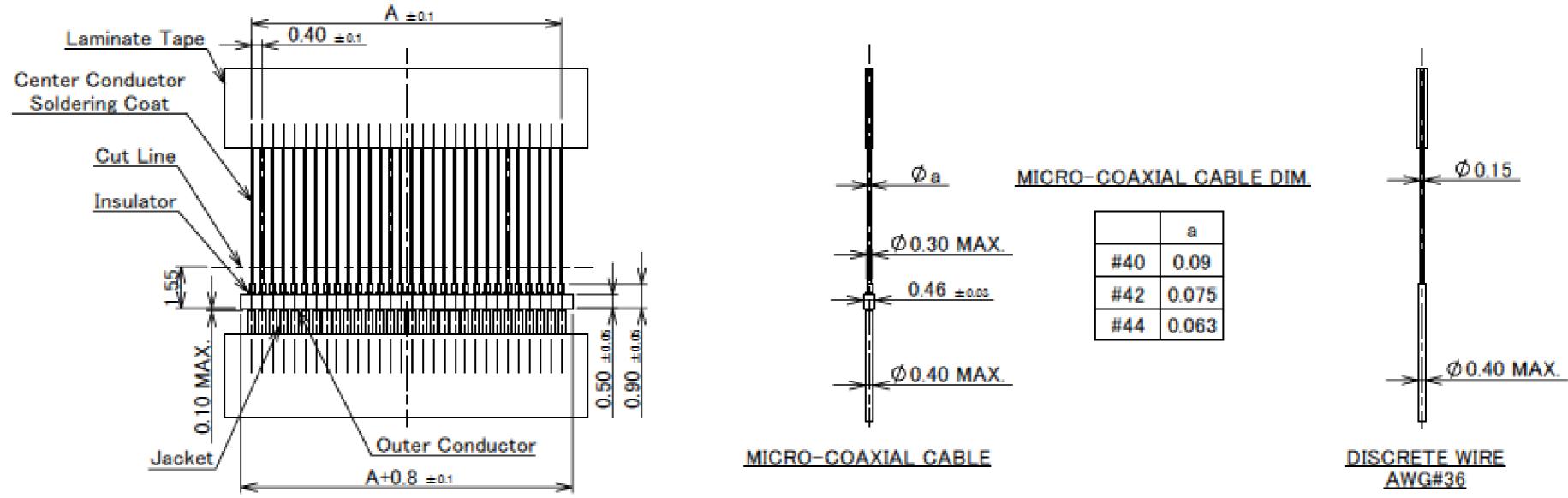
WITHOUT LATCH BAR

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Contact your sales representative for more detailed information. www.i-pex.com

Plug for Cable Assembly

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

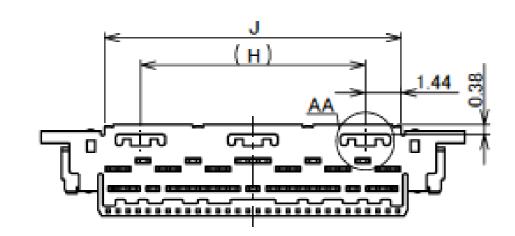


RECOMMENDED MICRO-COAXIAL CABLE DIM.

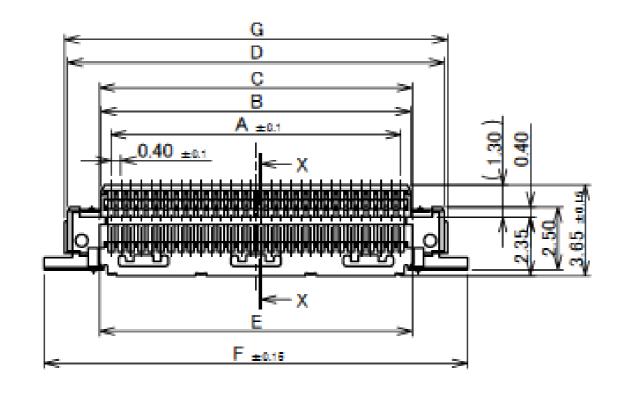
ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 40, 42, 44 DISCRETE WIRE : AWG# 36
RATING VOLTAGE	100V AC (PER CONTACT PIN) %THIS IS THE RATED VOLTAGE OF THE CONNECTOR. PLEASE NOTE THAT THE RATED VOLTAGE MAY VARY IN THE HARNESS DEPENDING ON THE CABLES USED.
RATING AMPERAGE (FOR CONTACT)	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 ※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.
CONTACT RESISTANCE	INITIAL : 275mohm MAX. (AWG#36)/ AFTER TEST : ⊿40mohm MAX. 600mohm MAX. (AWG#40) 700mohm MAX. (AWG#42) 1080mohm MAX. (AWG#44)
GROUND SHELL RESISTANCE	INITIAL : 50mohm MAX. / AFTER TEST : ⊿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***

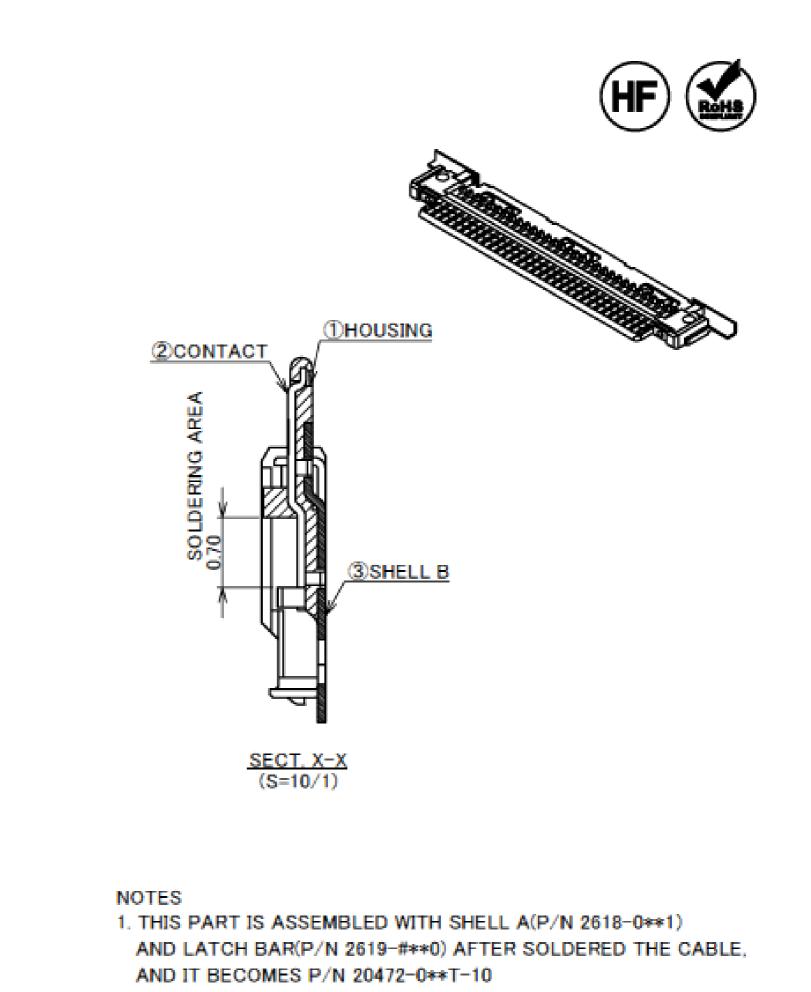
Plug Housing Assembly

Recommended	P/N	2	0473	-0**	T-10					
PART NO.	POS.	Α	в	С	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









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

Plug Shell-A

Recommended	2618-0301 30			2618-0**1					
PART NO.	POS.	Α	В	С					
2618-0301	30	16.94	3.60	11.88					
2618-0401	40	20.94	5.60	15.88					

P/N:2618- 0**1

- POS.

2.85

0.72

 \mathcal{D}

0.80

1.40

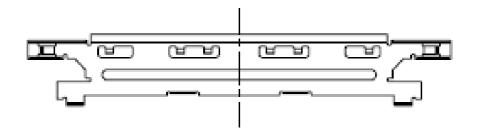
2.00

DETAIL AA (S=10/1)

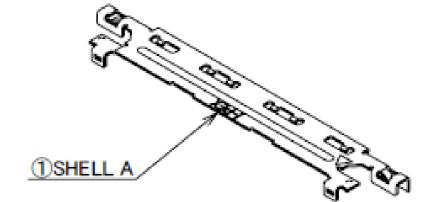
.0.25

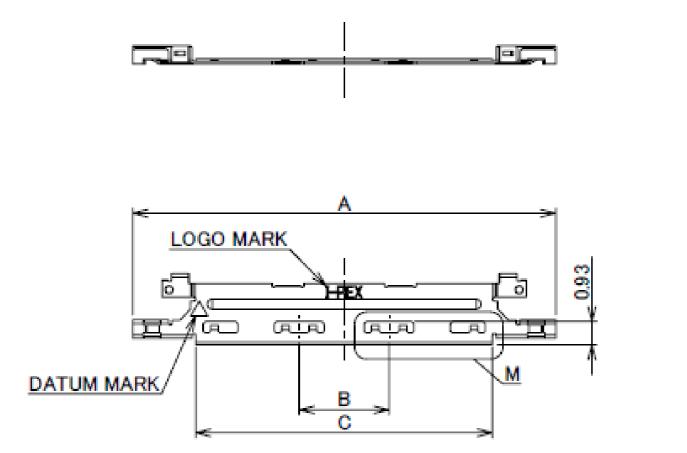
0.64 ±0.15

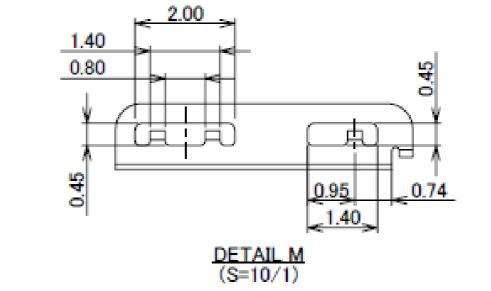
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1	SHELL A	PHOSPHOR BRONZE	Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.
NO	DISCRIPTION	MATERIAL	FINISH , REMARKS

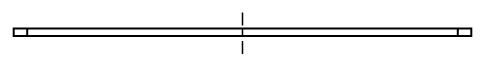
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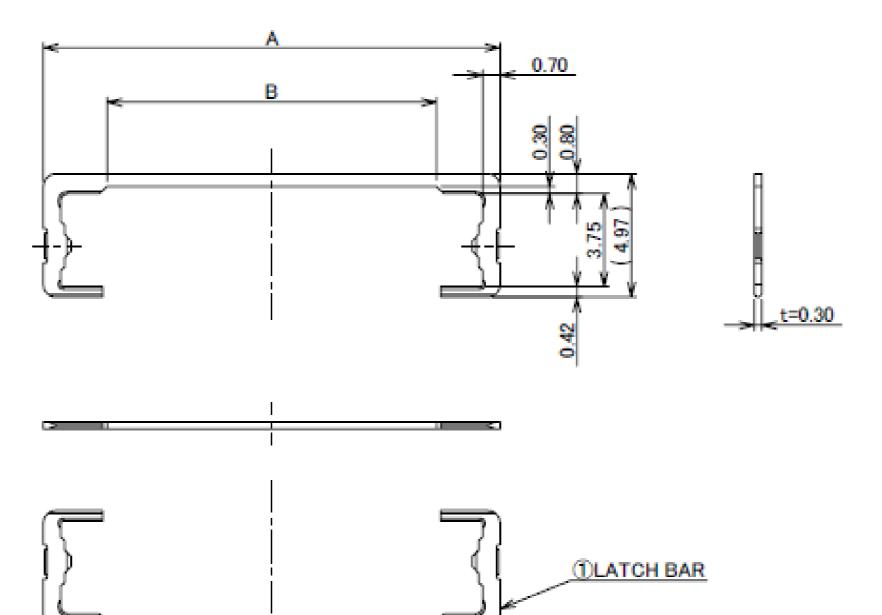
Plug Latch Bar

Recommended P/N			2619-0**0				
PART NO.	POS.	Α	В		•		
2619-0300	30	18.44	13.00				
2619-0400	40	22.44	17,00		26		
				-			

2619-0<u>±</u>±0 POS.





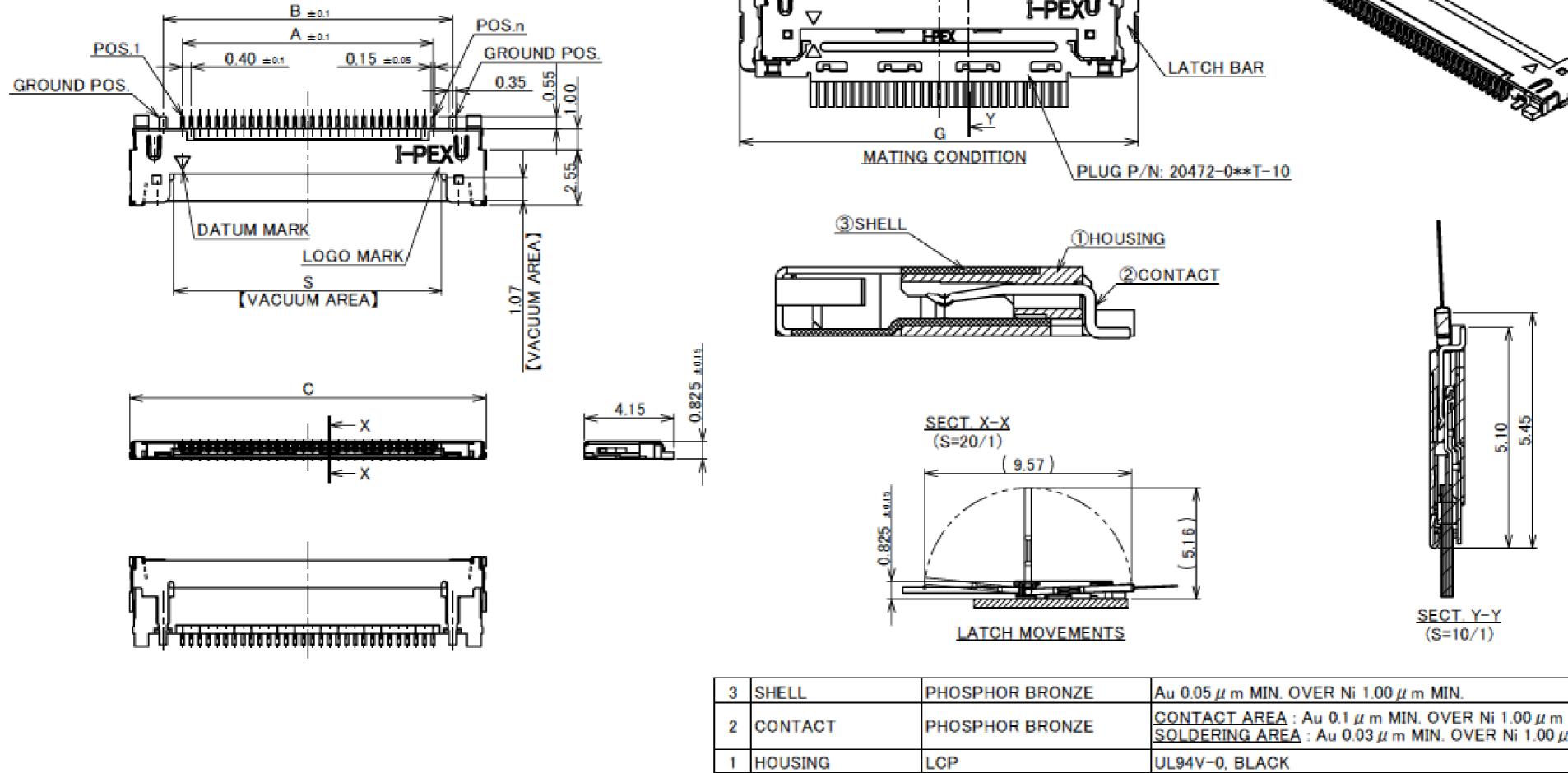


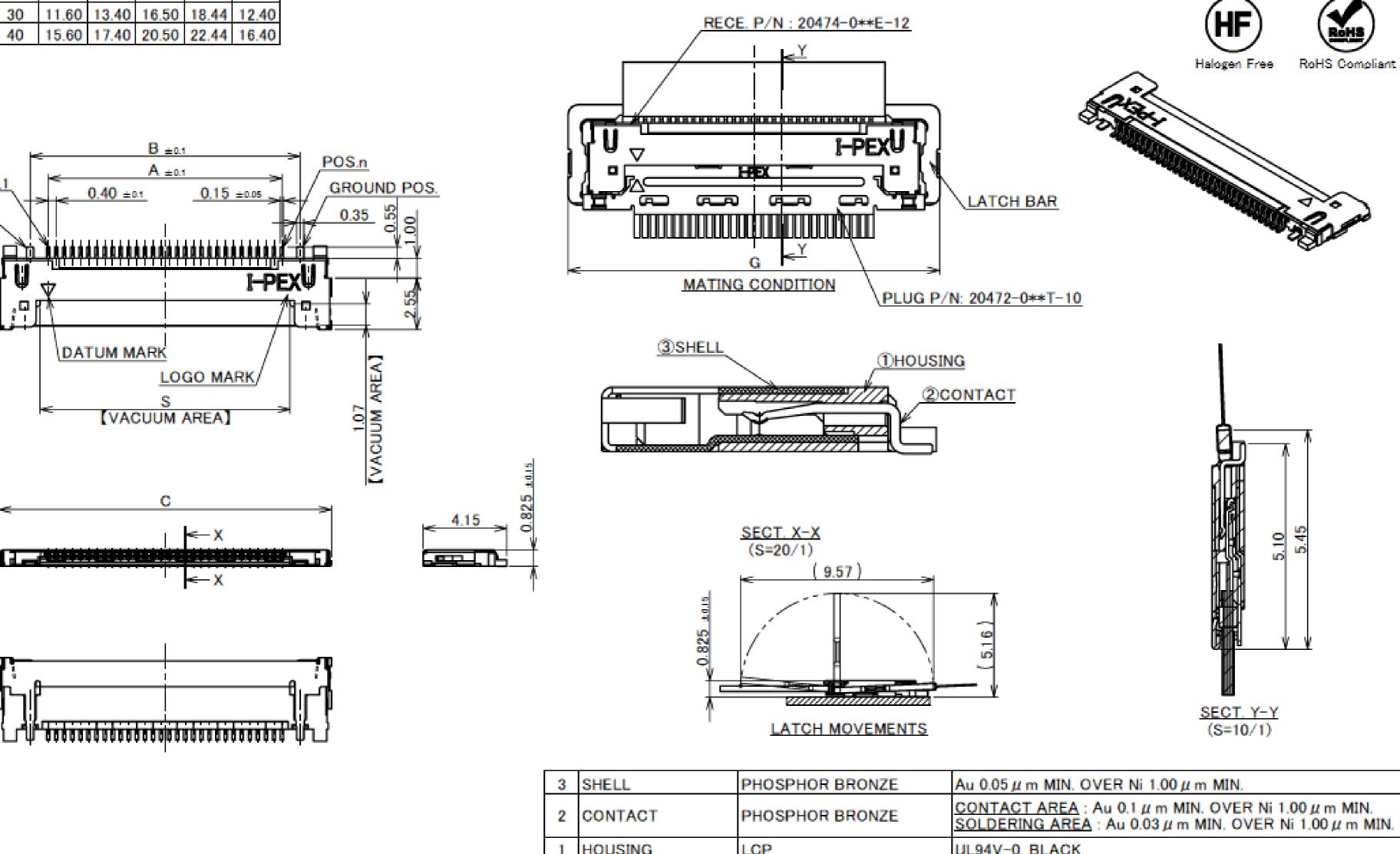


1	LATCH BAR	SUS	-
NC	DISCRIPTION	MATERIAL	FINISH, REMARKS

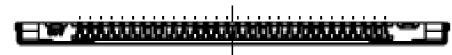
Receptacle Assembly

Recommended	20474-0**E-12					
PART NO.	POS.	Α	В	С	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





MATERIAL



Rev.14

FINISH , REMARKS

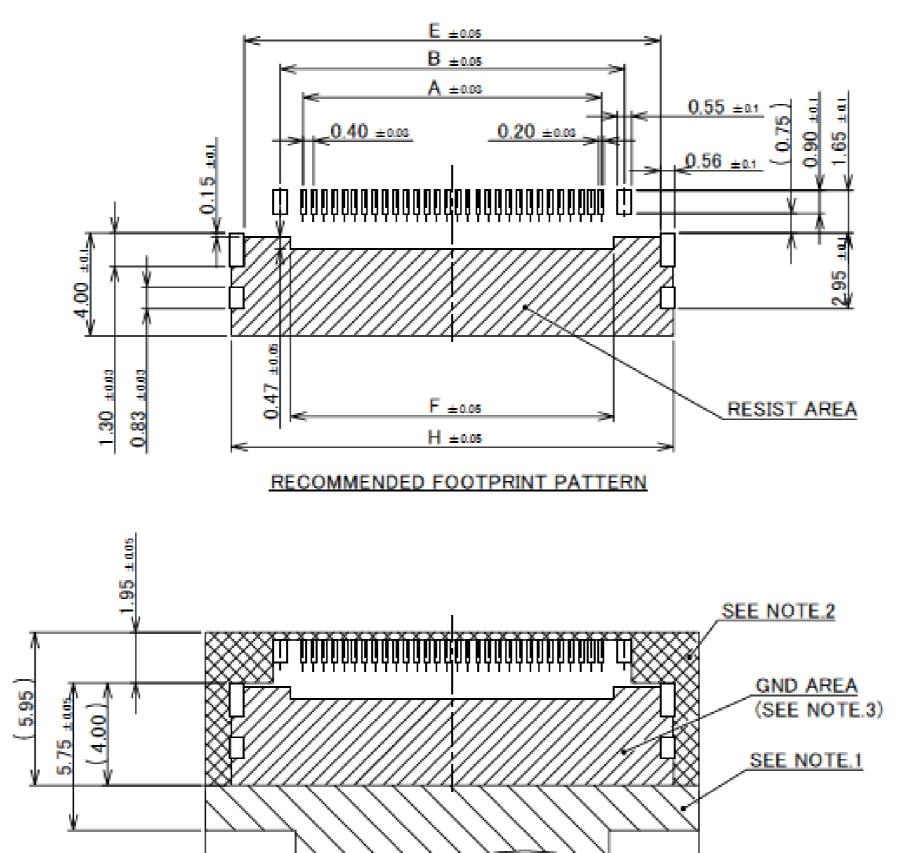
Contact your sales representative for more detailed information. <u>www.i-pex.com</u>

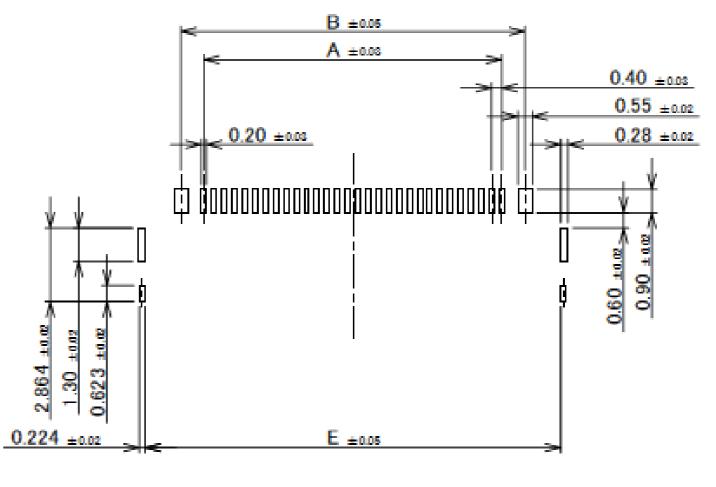
DISCRIPTION

NO

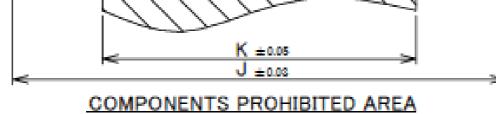
Receptacle Assembly

PART NO.	POS.	Α	В	Е	F	Н	J	ĸ
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





RECOMMENDED METAL MASK LAYOUT METAL MASK THICKNESS : t=0.1 mm

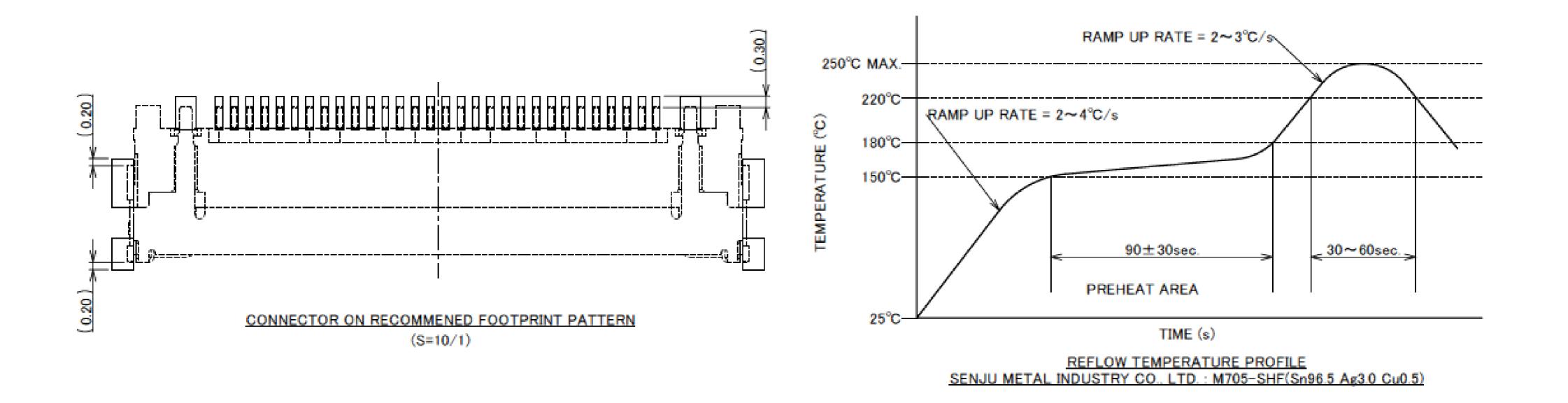


NOTES.

1. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.

2. IN CASE OF PLUG WITH LATCH BAR(20472-0**T-10), DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.

3. SODLER RESIST MUST BE APPLIED TO THIS AREA.



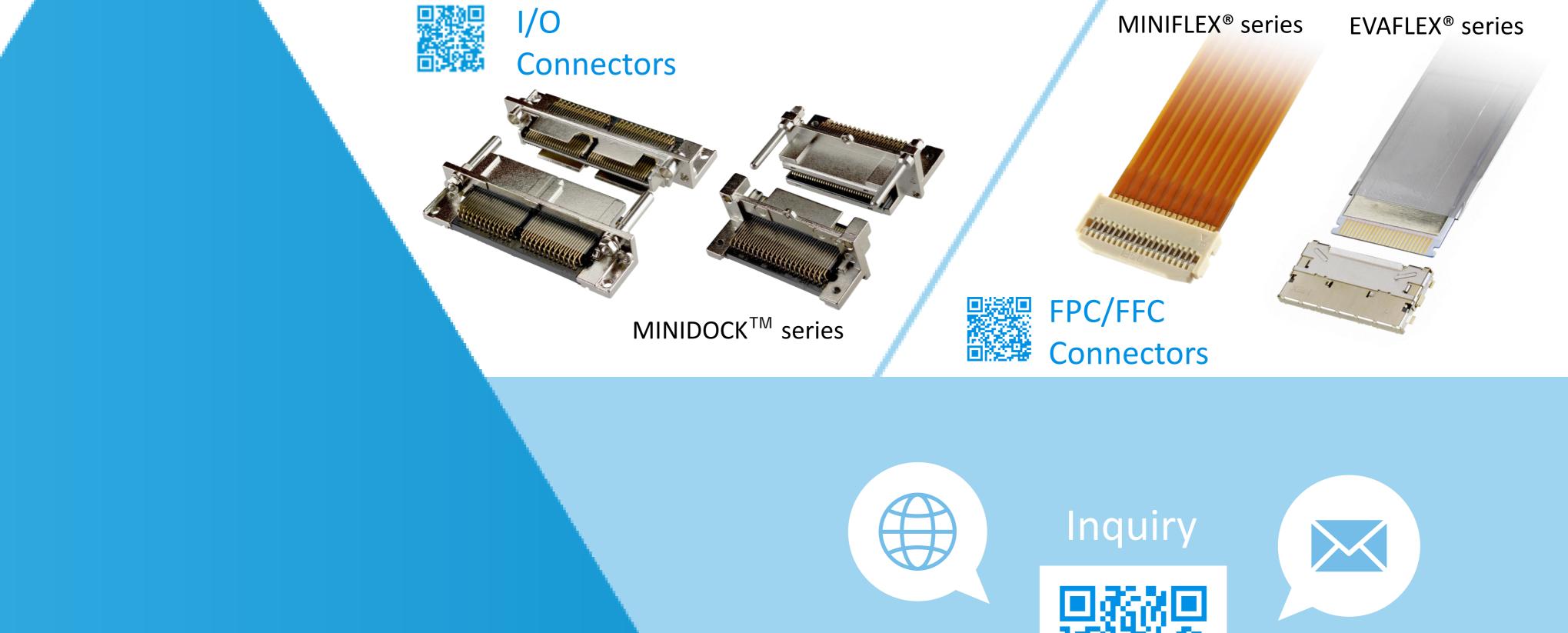
Receptacle Assembly

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 40, 42, 44 DISCRETE WIRE : AWG# 36
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INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.
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DURABILITY	30 CYCLES
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UNMATING FORCE (INITIAL / AFTER TEST)	30P : 3.0N MIN. 40P : 4.0N MIN.
CABLE RETENTION FORCE	30P : 14.70N MIN. 40P : 19.60N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-1421
TEST REPORT	TR-08030
PACKING STANDARD	300-657
INSTRUCTION MANUAL	HIM-09002
APPEARANCE CRITERIA No.	QLS-A***

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