CABLINE®-SS

Narrow depth, robust, right angle vertical mate with max power delivery (AWG#34) In 0.4 mm pitch size and high temperature/humidity (autoclavable) option

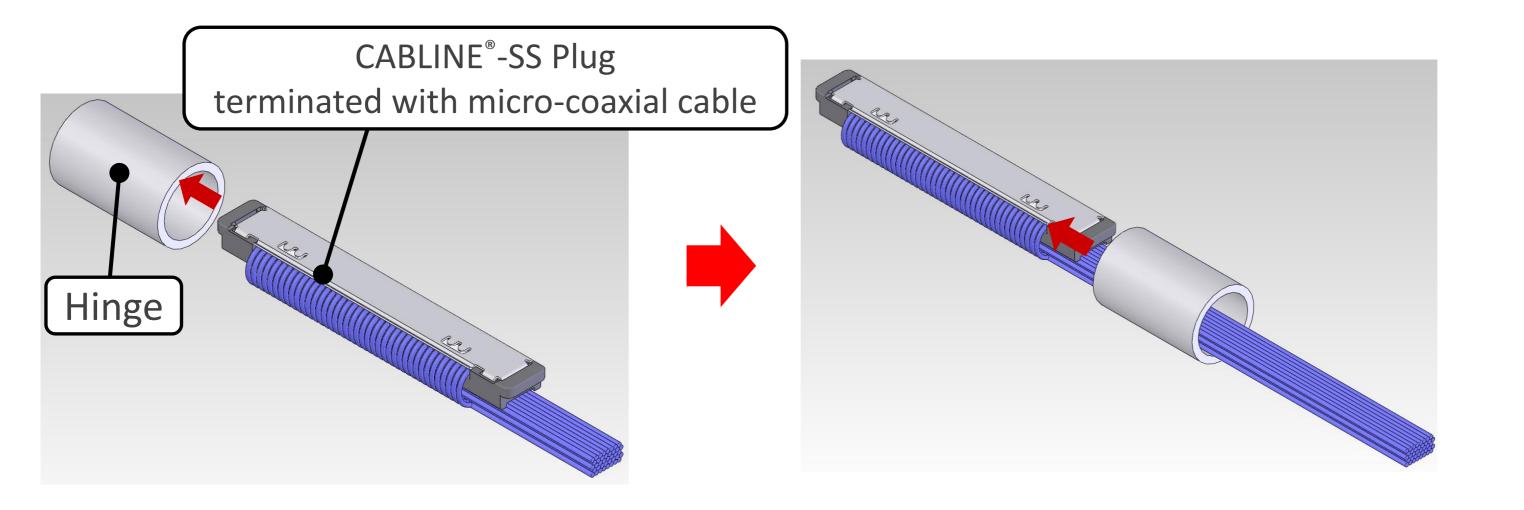
Product Specifications:			Applicable Cable Size:		
Mating type		Right angle vertical	Maximum O.D. (mm)	0.4	
Board Pitch (mm)		0.4	Micro-Coaxial	45 ohm: #38 or smaller	
Wiping Length (mm)		0.3	for Signal (AWG)	50 ohm: #40 or smaller	
Mated size (mm)	Height	1.65 +/- 0.2	Twin Coaxial (AWG)	-	
	Width	5.8 + (0.4*?p)	Discrete (AWG)	#34 or smaller	
	Depth	3.0			
Pin Counts	Range	Up to 50	Applicable Standards (Reference Only): eDP HBR 2 (5.4 Gbps) USB 3.0 (5 Gbps)		
Pili Courits	Available	10, 14, 20, 30, 32, 35, 40, 50			

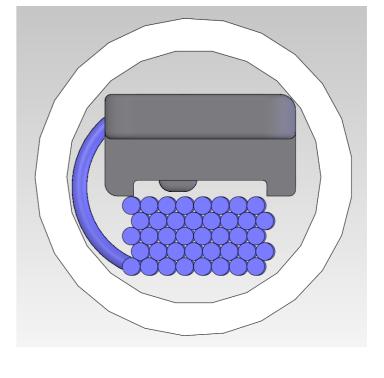
^{*} Please inquire for pin counts not listed or outside of the pin count range.



Narrow depth design with maximum power delivery (AWG#34)

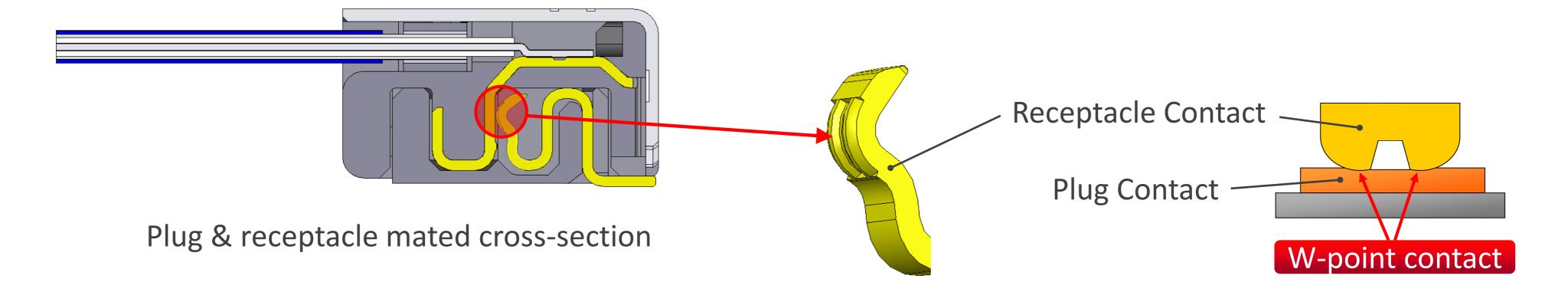
Narrow depth design enables go through small hinge after cable termination.





Side View

Highly reliable contact using I-PEX's unique W-point design



I-PEX prevents poor contact with foreign particles between plug and receptacle contacts. Provides better contact reliability than typical single-point contact designs.

Durable to high temperature/humidity (autoclavable) option available

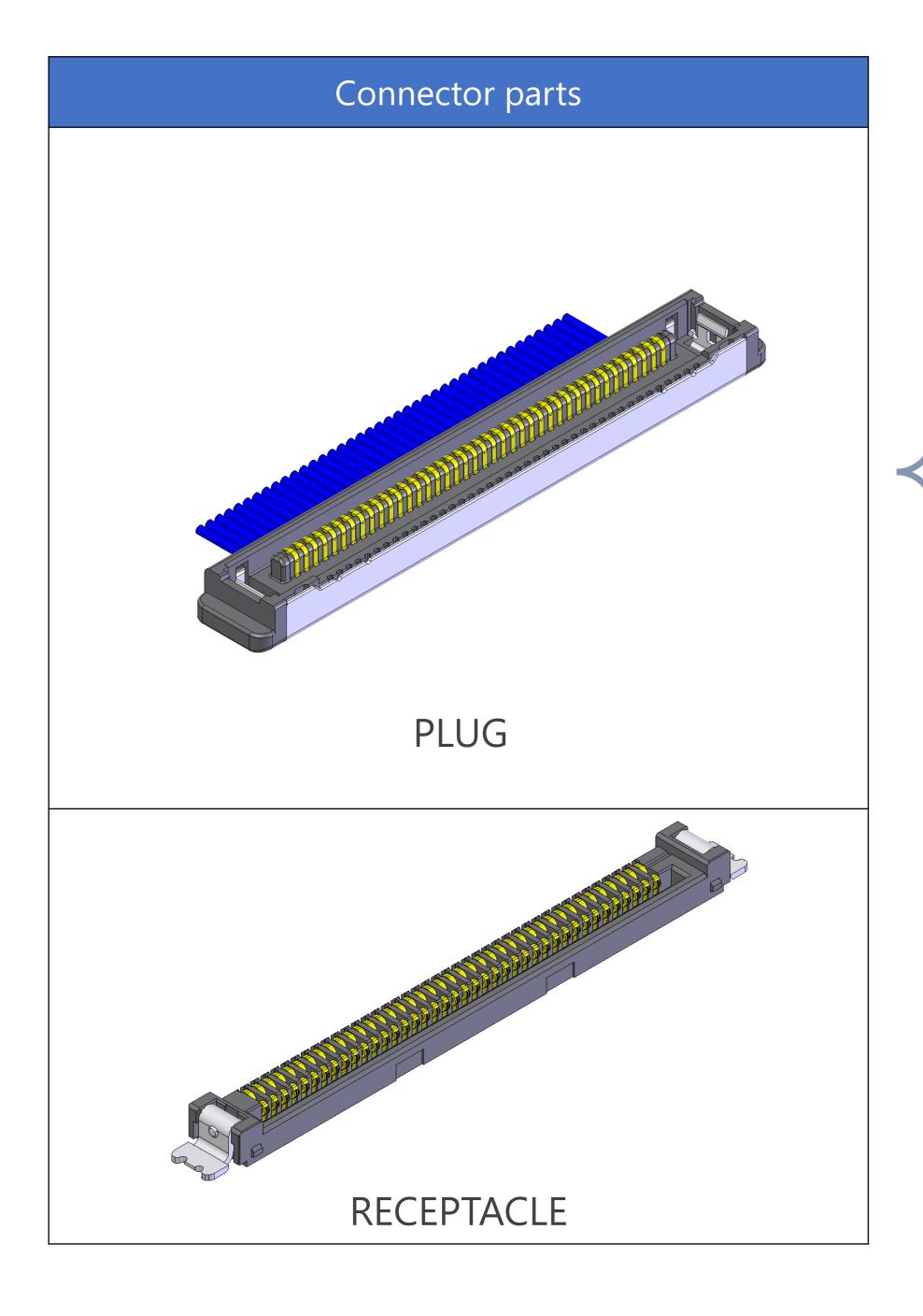
Suitable for sterilization environment of medical equipment, autoclave compatible

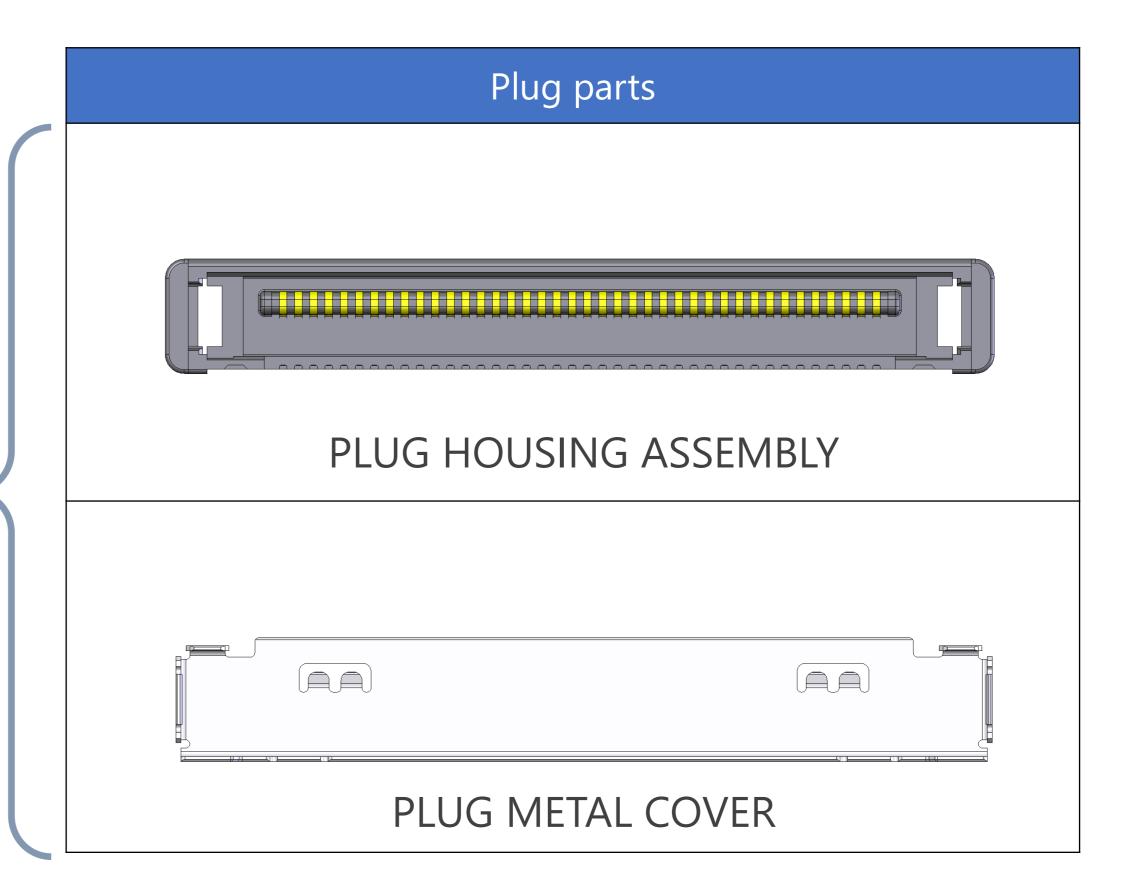




Component Parts Details

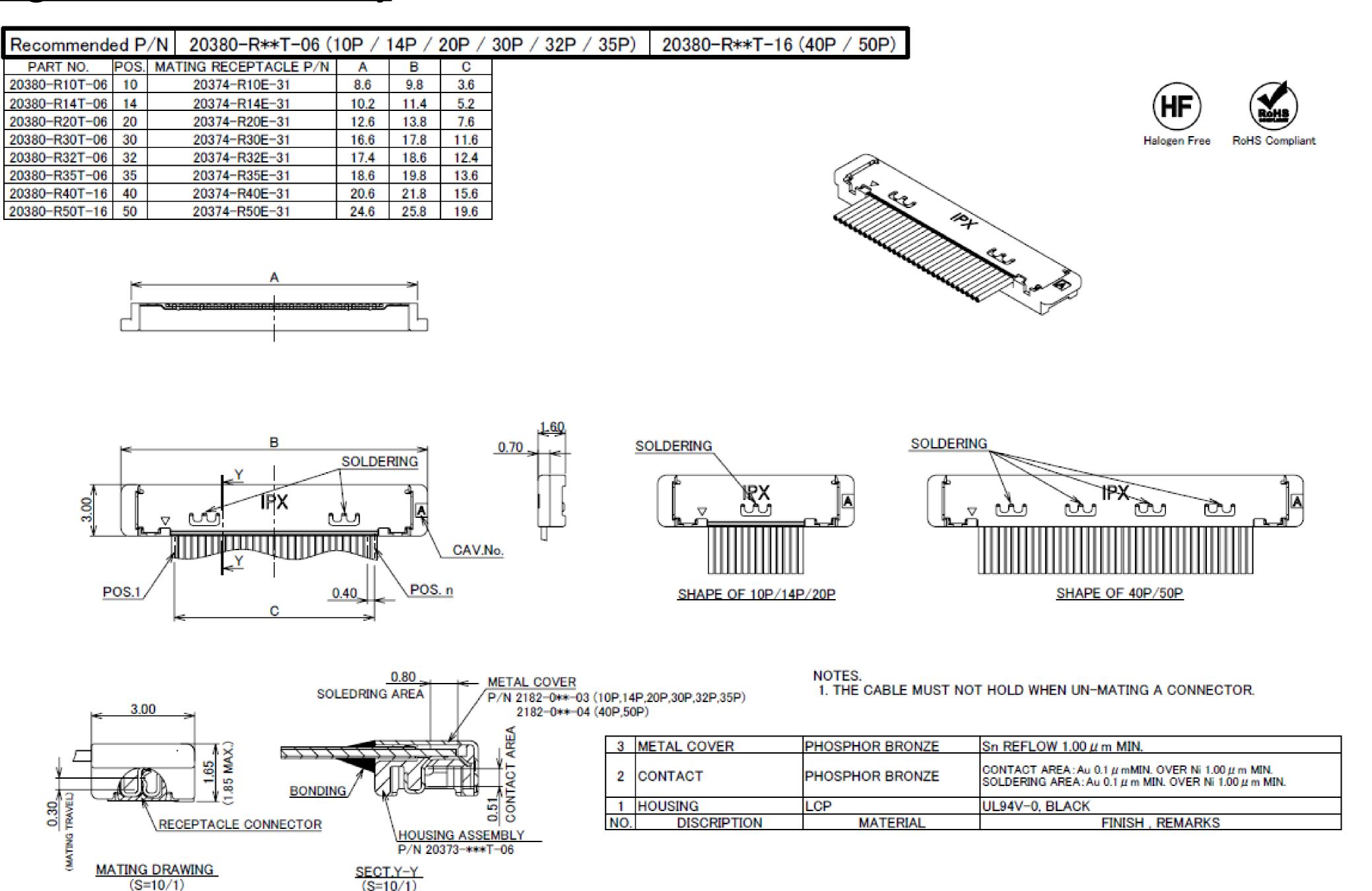
Component Parts



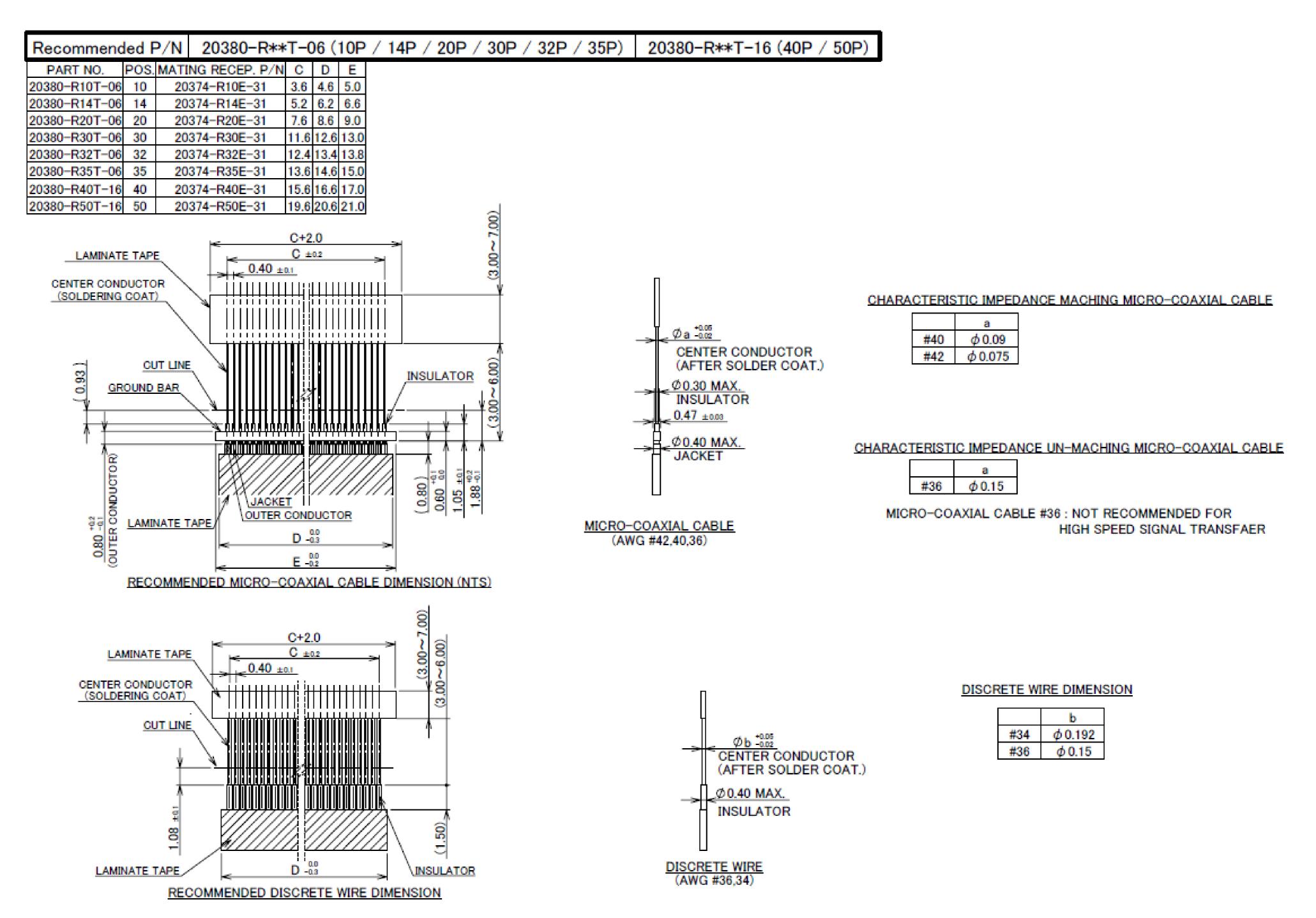




Plug for Cable Assembly

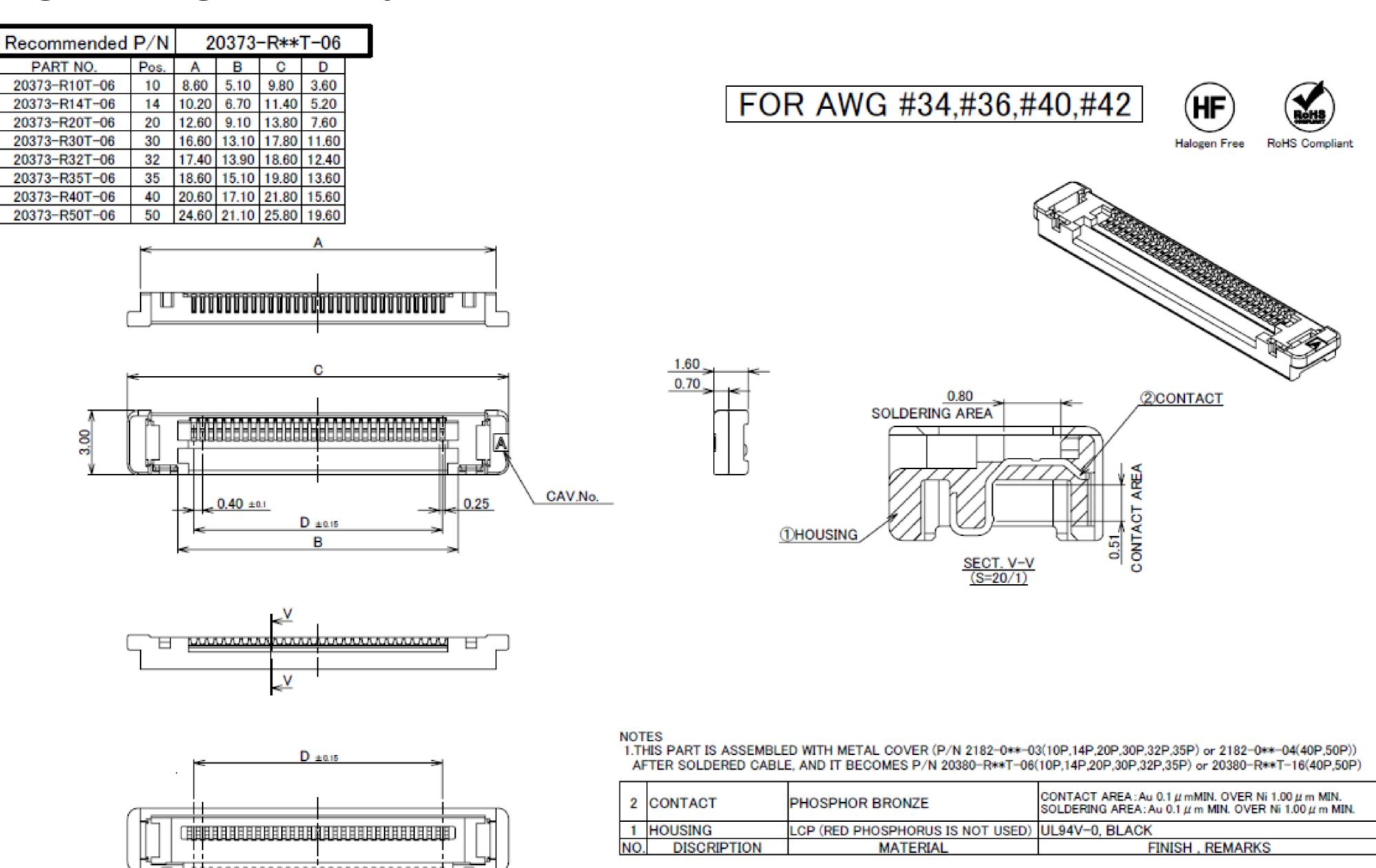


Rev.27





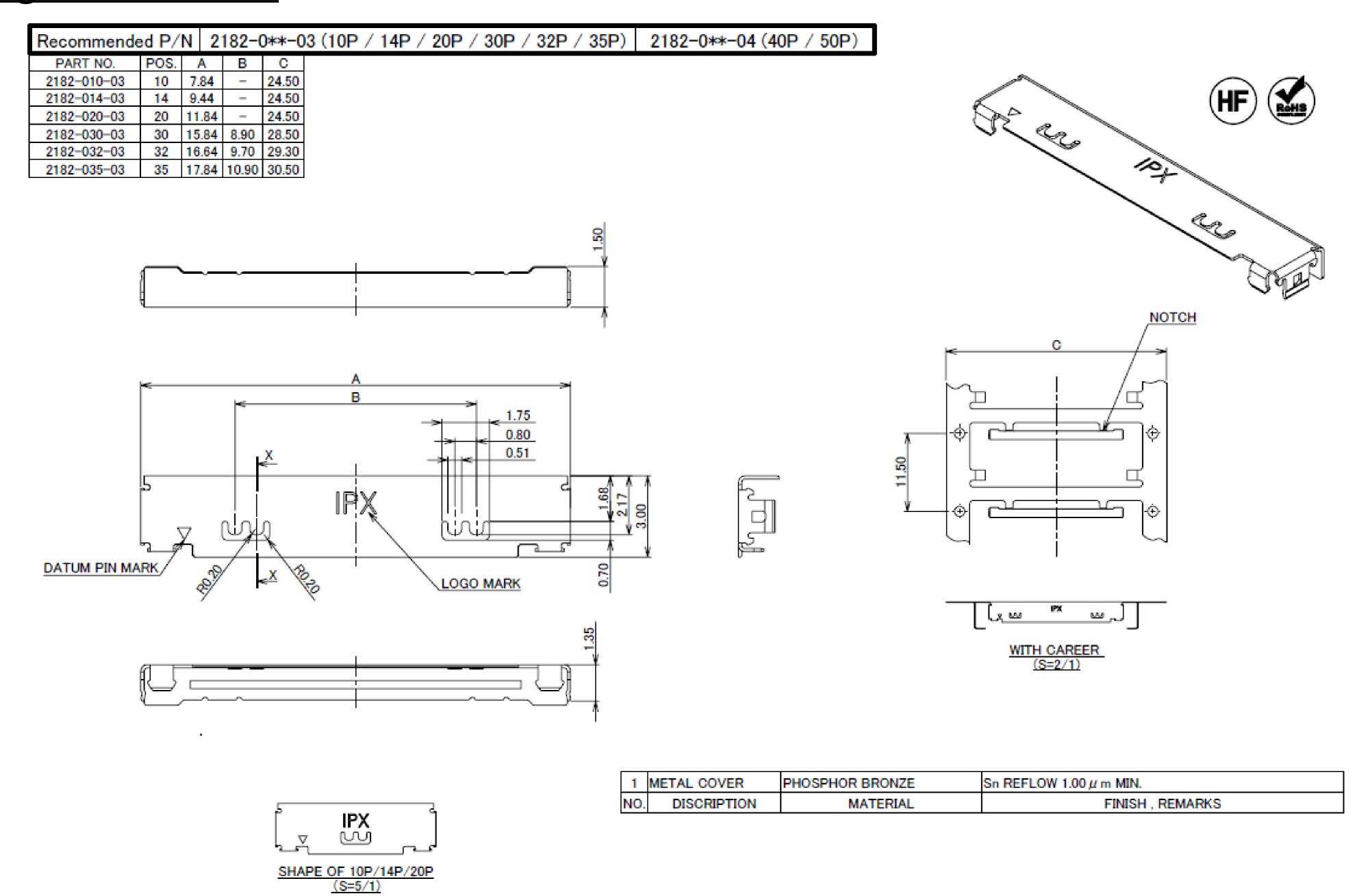
Plug Housing Assembly



Rev.22

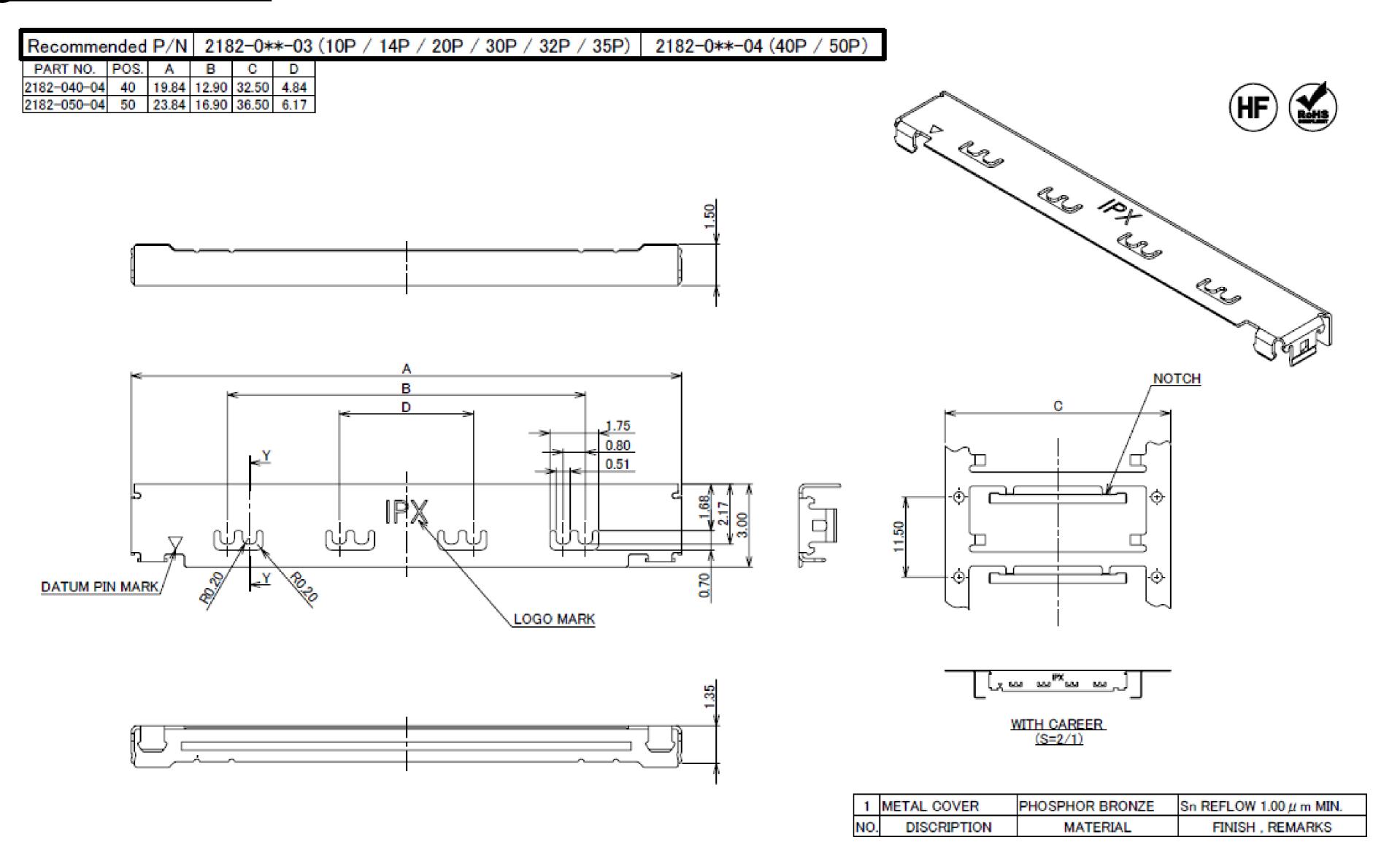
Plug Metal Cover

0.40 ±0.1





Plug Metal Cover



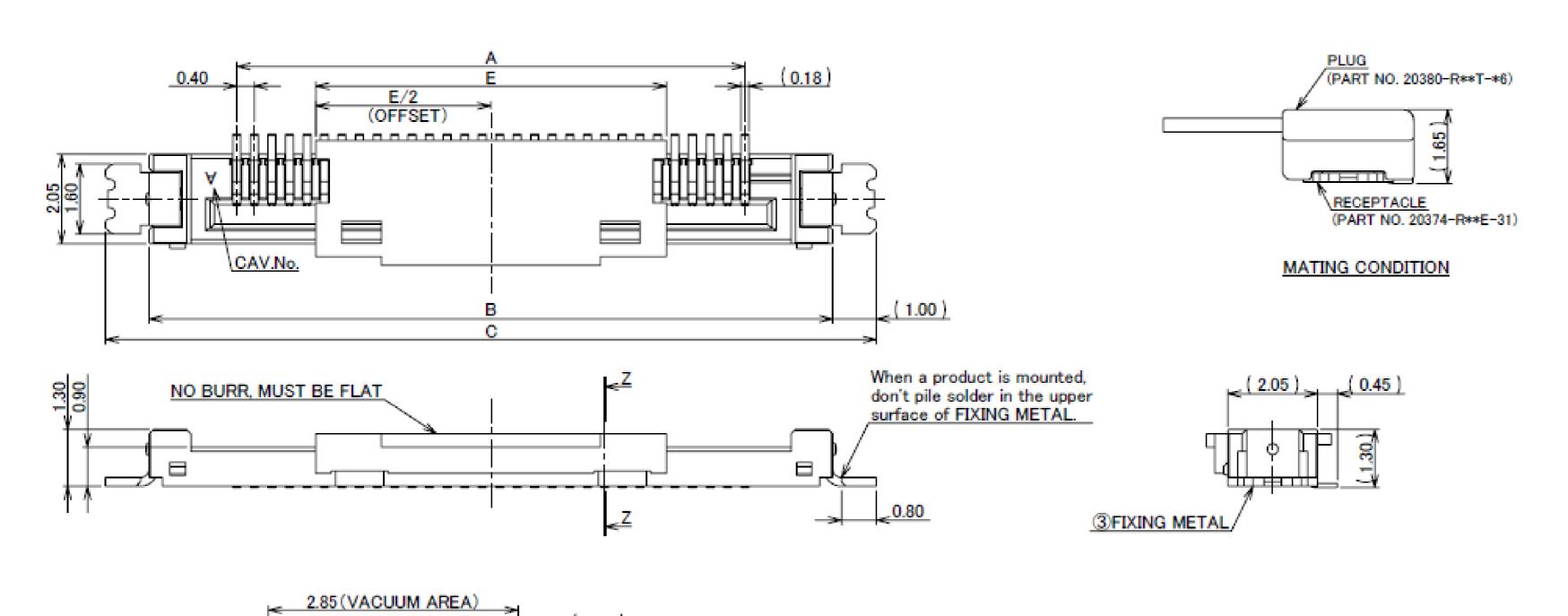
Rev.19

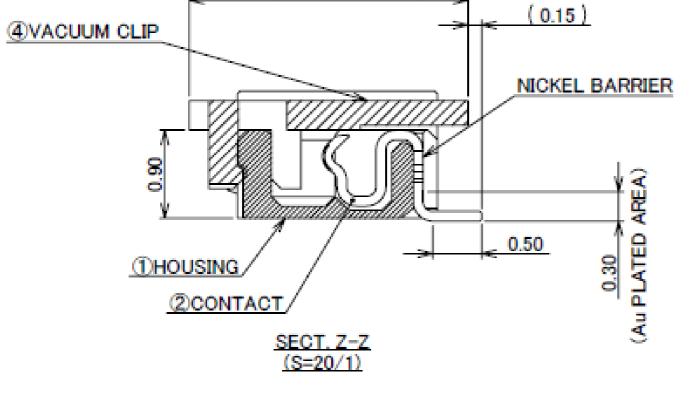
Receptacle Assembly

Recommended	P/N	203	374-R	**E−31		
PART NO.	POS.	Α	В	С	D	E
20374-R10E-31	10	3.60	7.60	9.60	7.20	5.50
20374-R14E-31	14	5.20	9.20	11,20	8.80	5.50
20374-R20E-31	20	7.60	11.60	13.60	11,20	8.00
20374-R30E-31	30	11.60	15.60	17.60	15.20	8.00
20374-R32E-31	32	12.40	16.40	18.40	16.00	8.00
20374-R35E-31	35	13.60	17.60	19.60	17.20	8.00
20374-R40E-31	40	15.60	19.60	21.60	19.20	8.00
20374-R50E-31	50	19.60	23.60	25.60	23.20	8.00









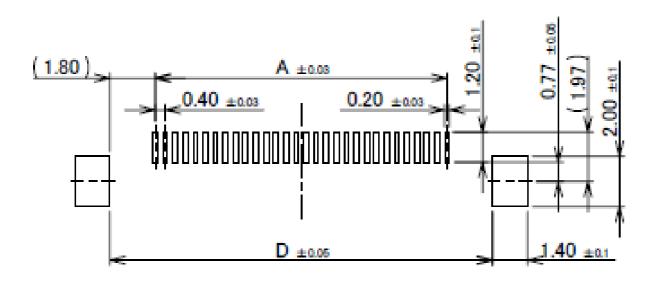
4	VACUUM CRIP	LCP	UL94V-0, BEIGE
3	FIXING METAL	PHOSPHOR BROZE	Sn/Cu(98/2) (LUSTER) 2.0 μ m MIN. OVER Ni 1.00 μ m MIN.
2	CONTACT	PHOSPHOR BROZE	CONTACT AREA: Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDERING AREA: Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.
1	HOUSING	LCP(RED PHOSPHORUS IS NOT USED)	UL94V-0, BLACK
NO	. DISCRIPTION	MATERIAL	FINISH, REMARKS

Rev.30

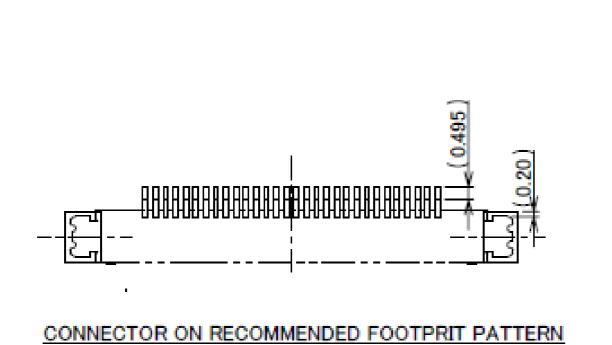


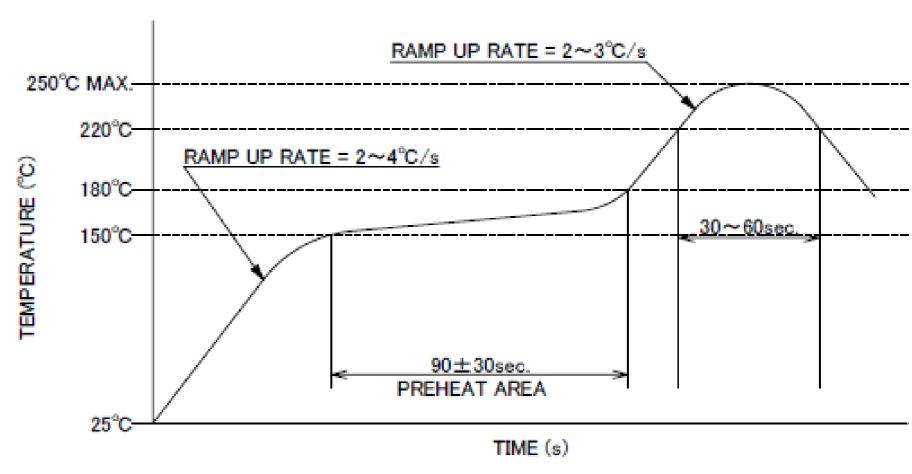
Receptacle Assembly

PART NO.	POS.	Α	D
20374-R10E-31	10	3.60	7.20
20374-R14E-31	14	5.20	8.80
20374-R20E-31	20	7.60	11,20
20374-R30E-31	30	11.60	15.20
20374-R32E-31	32	12.40	16.00
20374-R35E-31	35	13.60	17.20
20374-R40E-31	40	15.60	19.20
20374-R50F-31	50	19.60	23.20



RECOMMENDED FOOTPRINT PATTERN (MOUNT SIDE)
Recommended Thickness of Metal Mask: t=0.13mm
Recommended Opening Ratio of Metal Mask: 79.6%





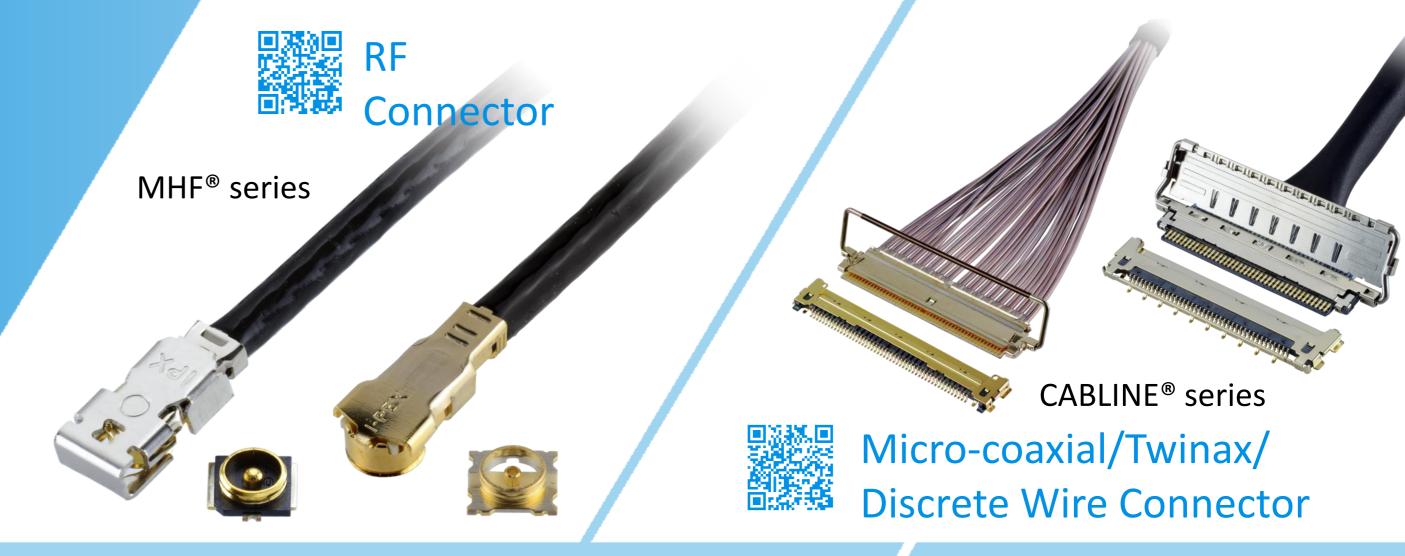
REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD.: M705-SHF(Sn96.5 Ag3.0 Cu0.5)

Rev.30

ITEMS	SPECIFICATION		
APPLICABLE CABLE	MICRO-COAXIAL CABLE: AWG# 42, 40, 36 DISCRETE WIRE: AWG# 36, 34		
RATING VOLTAGE	100V AC (PER CONTACT PIN)		
RATING AMPERAGE (FOR CONTACT)	0.24A AC/DC [AWG#42] AVAILABLE TO 50 PIN 0.25A AC/DC [AWG#40] AVAILABLE TO 50 PIN 0.30A AC/DC [AWG#40] AVAILABLE TO 32 PIN 0.35A AC/DC [AWG#36] AVAILABLE TO 50 PIN 0.40A AC/DC [AWG#36] AVAILABLE TO 37 PIN 0.35A AC/DC [AWG#34] AVAILABLE TO 50 PIN 1.00A AC/DC [AWG#34] AVAILABLE TO 2 PIN		
OPERATING TEMPERATURE	233~358K(−40°C~+85°C)		
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)		
CONTACT RESISTANCE	INITIAL: 180mohm MAX. (AWG#34) / AFTER TEST: △40mohm MAX. 275mohm MAX. (AWG#36) 600mohm MAX. (AWG#40) 700mohm MAX. (AWG#42) (INITIAL CONTAINS THE CONDUCTOR RESISTANCE OF A CABLE 100mm)		
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)	10P: 29.00N MAX. 32P: 33.40N MAX. 14P: 29.80N MAX. 35P: 34.00N MAX. 20P: 31.00N MAX. 40P: 35.00N MAX. 30P: 33.00N MAX. 50P: 38.00N MAX.		
UNMATING FORCE (INITIAL / AFTER TEST)	10P: INITIAL: 4.00N MIN. / AFTER 30 CYCLES: 2.87N MIN. 14P: INITIAL: 4.40N MIN. / AFTER 30 CYCLES: 3.23N MIN. 20P: INITIAL: 5.00N MIN. / AFTER 30 CYCLES: 3.76N MIN. 30P: INITIAL: 6.00N MIN. / AFTER 30 CYCLES: 4.65N MIN. 32P: INITIAL: 6.20N MIN. / AFTER 30 CYCLES: 4.84N MIN. 35P: INITIAL: 6.50N MIN. / AFTER 30 CYCLES: 5.07N MIN. 40P: INITIAL: 7.00N MIN. / AFTER 30 CYCLES: 5.50N MIN. 50P: INITIAL: 8.00N MIN. / AFTER 30 CYCLES: 6.41N MIN.		
CABLE RETENTION FORCE	10P: 4.90N MIN. 32P: 15.68N MIN. 14P: 6.86N MIN. 35P: 17.15N MIN. 20P: 9.80N MIN. 40P: 19.60N MIN. 30P: 14.70N MIN. 50P: 24.50N MIN.		
PRODUCT SPECIFICATION	PRS-1239		
TEST REPORT	TR-04037		
INSTRUCTION MANUAL	HIM-04001		
ASSEMBLY MANUAL	ASM-04001		
APPEARANCE CRITERIA No.	QLS-A***		

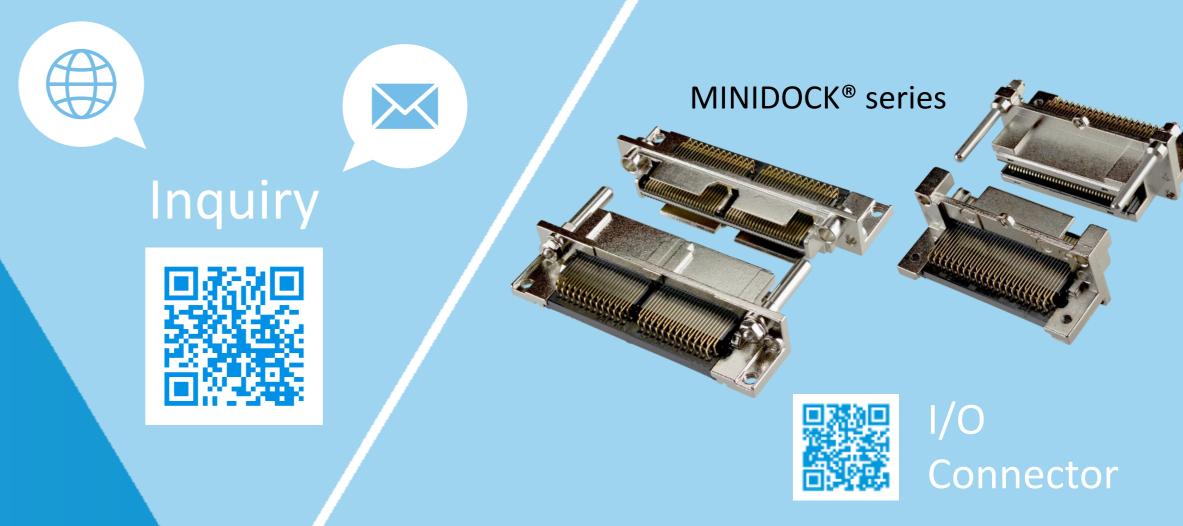


Custom Connectors Available









I-PEX, MHF, CABLINE, LIGHTPASS, NOVASTACK, ISH, IARPB, MINIFLEX, EVAFLEX, MINIDOCKS and ZenShield are registered trademarks of I-PEX Inc. Please note that the contents in the catalog might be changed without prior notification. I-PEX Inc. assumes no responsibility for any inaccuracies or obligation to update Information on these documents, Please be sure to read and understand the latest "Precautions for Use" and "Instruction" Manual" before you use our products. We shall not be responsible for any defects, damages or troubles in case you use our products without following the precautions for use. Please feel free to contact our sales representatives when you use our products for any applications that require very high reliability and safety, or that relate to human life (ex. nuclear power control, aerospace, transportation, medical equipment, safety equipment etc.).

Contact your sales representative or more detailed information.

www.i-pex.com

