CABLINE®-SS

높은 데이터 전송률(16Gbps/레인), 소 Space, 높은 견고성, 최대(AWG#34) Cable 결성 가능, 0.4mm Pitch, 직각 수직 결합형 Micro 동축 Connector

Product Speci	ifications:		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	1.85 Max	Twin Coaxial (AWG)	-	
	Width	5.8 + (0.4*?p)	Discrete (AWG)	#34 or smaller	
	Depth	3.0	Applicable Standards (Reference Only):		
Pin Counts	Range	Up to 50	V-by-One® US (16 Gbps/Lane), HDMI 2.1 (12 Gbps/Lane), USB3.2 Gen2 (10 Gbps/ Lane)		
	Available	10, 14, 20, 30, 32, 35, 40, 50			

^{*}기재가 되어있지 않은 핀 수의 대응 여부에 대해서는 문의해 부탁 드립니다.



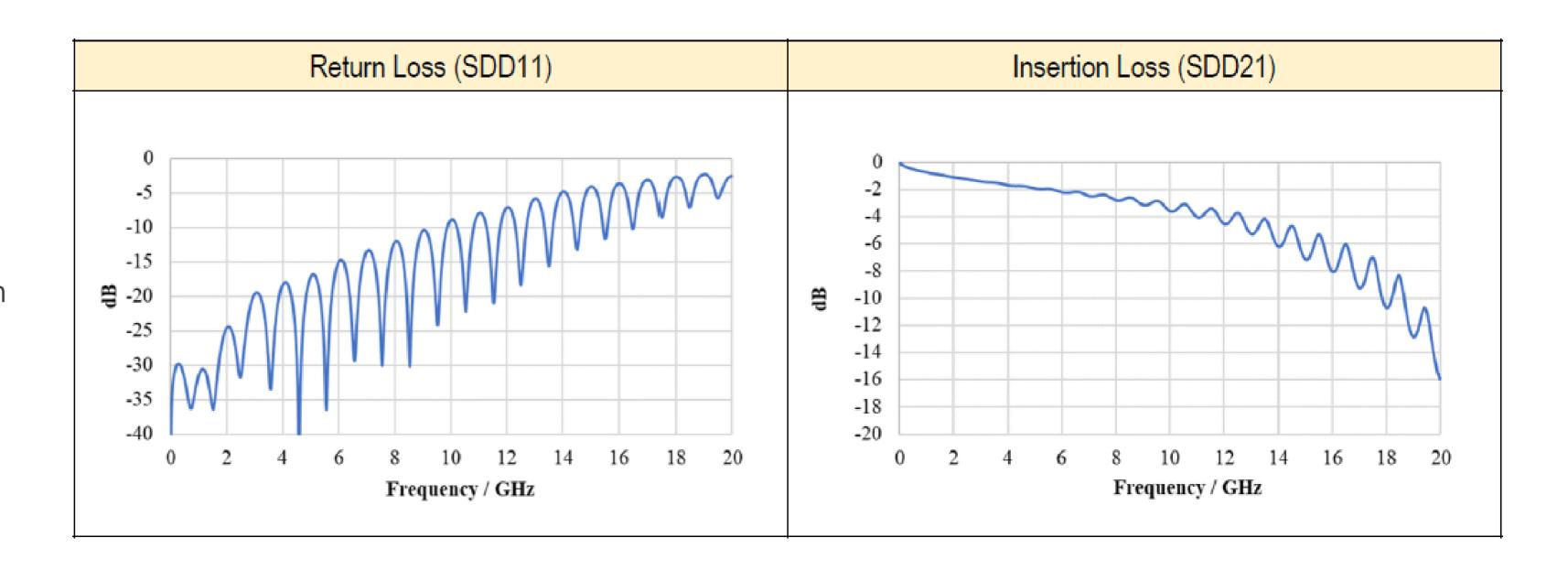
16Gbps/Lane Application에 이상적인 고속 데이터 전송

Measurement results

Connector: CABLINE-SS 40P

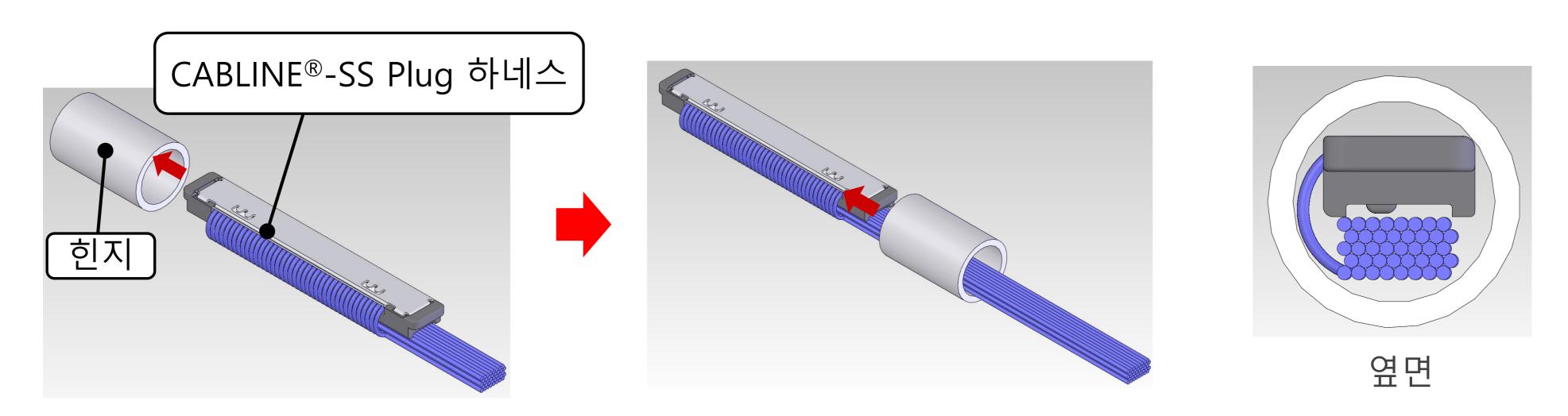
Cable: Micro-coaxial cable AWG #40, 45ohm, Length: 100 mm

Pin Assignment: GSSGSSG

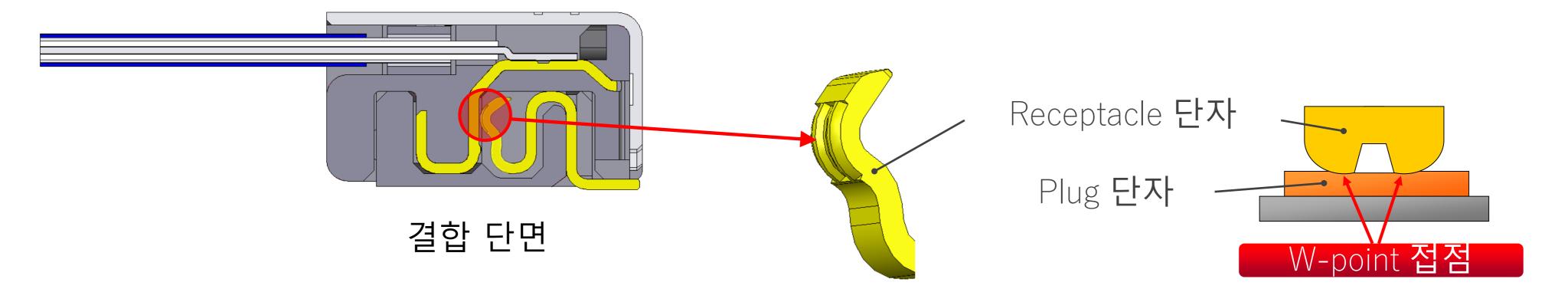


작은 직경의 힌지를 통과시킬 수 있는 슬림한 디자인, 최대 직경의 파워용 케이블 AWG#34 결선 가능

하네스 가공 후 작은 직경의 힌지 통과 가능



I-PEX만의 W-Point를 통한 신뢰성 높은 단자 접점 구조

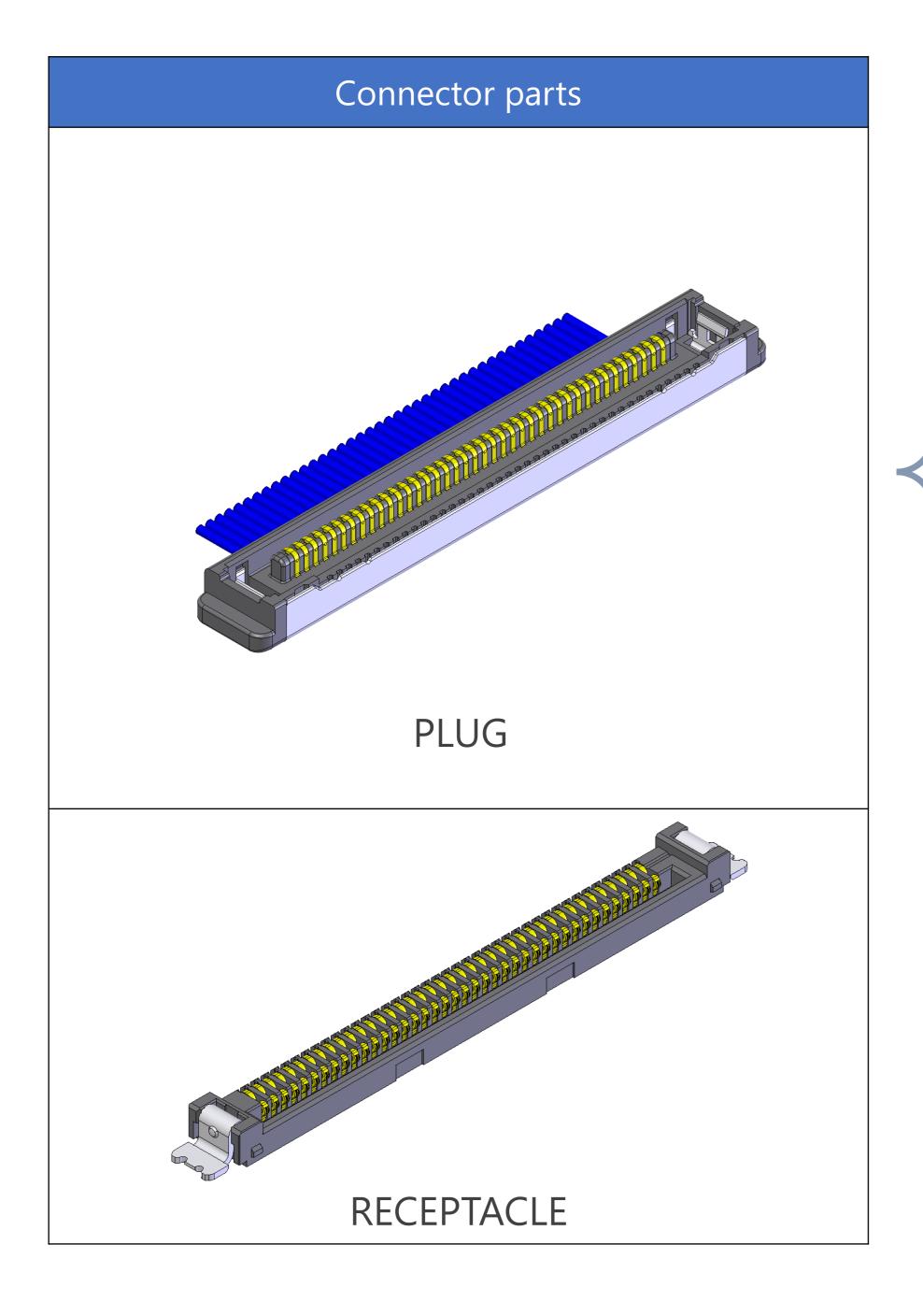


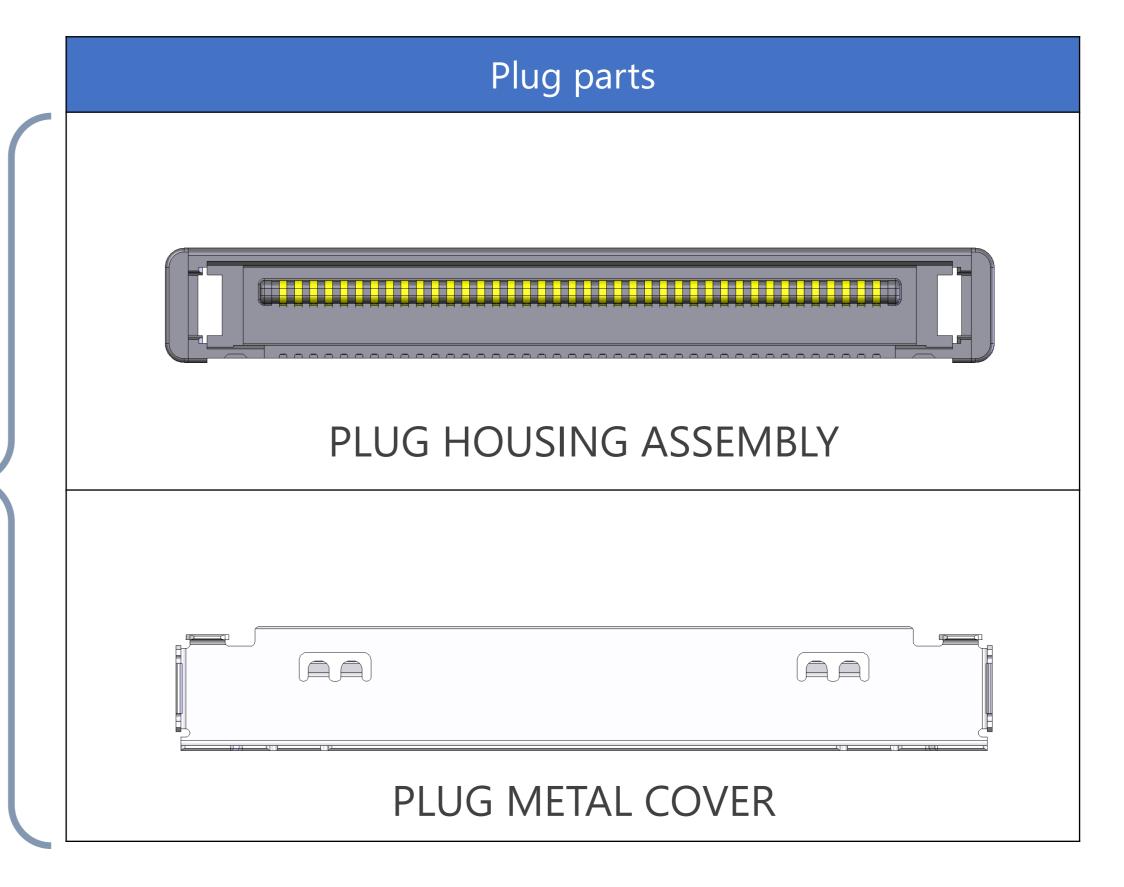
W-point 컨택 기술은 열악한 접점 환경 하에서도 Plug와 Receptacle 컨택 간의 양호한 접촉 저항값 유지가 가능합니다. 일반적인 단접점 방식과 비교하여, 보다 안정적인 접촉 저항의 유지가 가능합니다.



Component Parts Details

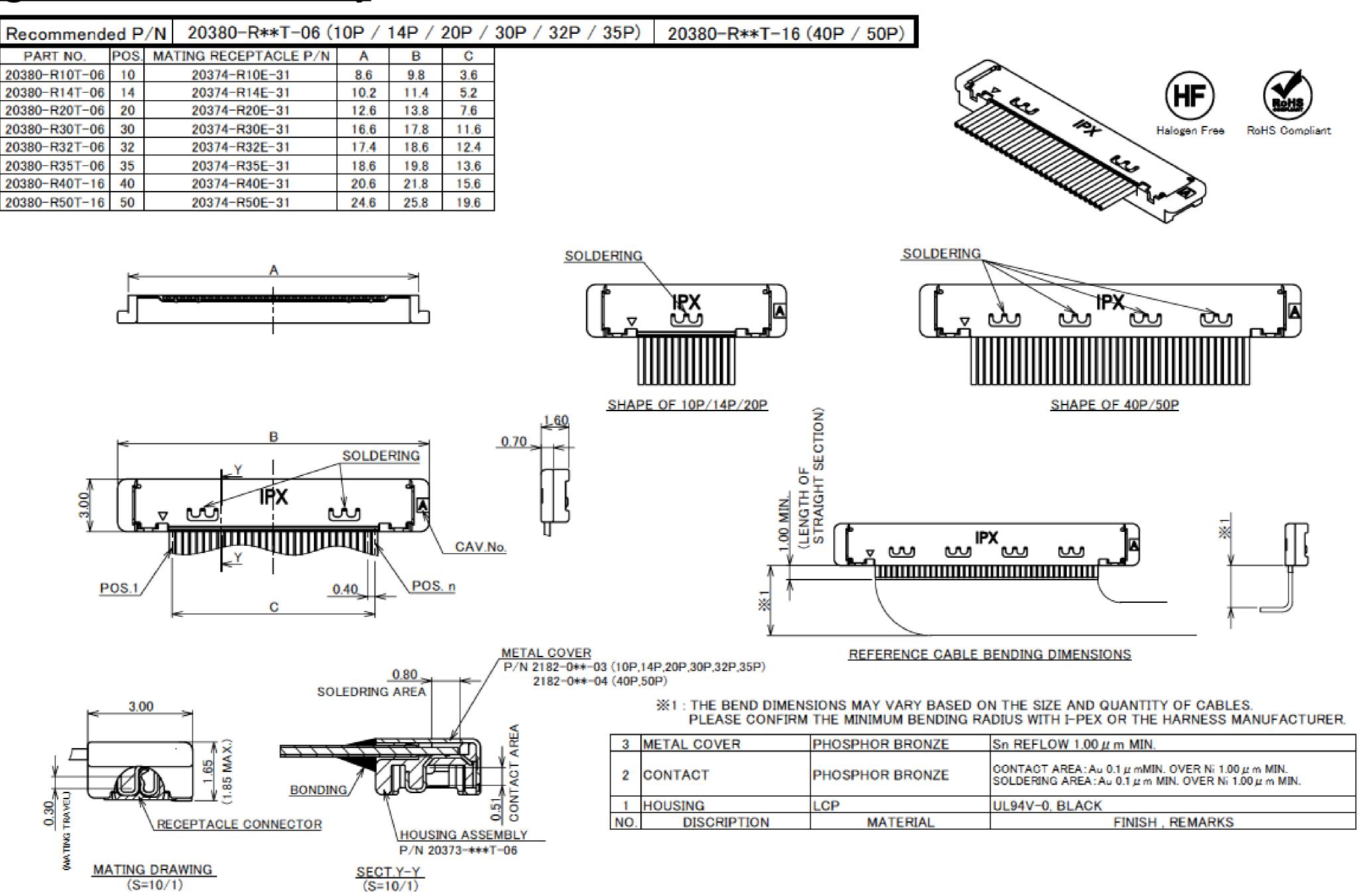
Component Parts







Plug for Cable Assembly



NOTES.

1. THE CABLE MUST NOT HOLD WHEN UN-MATING A CONNECTOR.

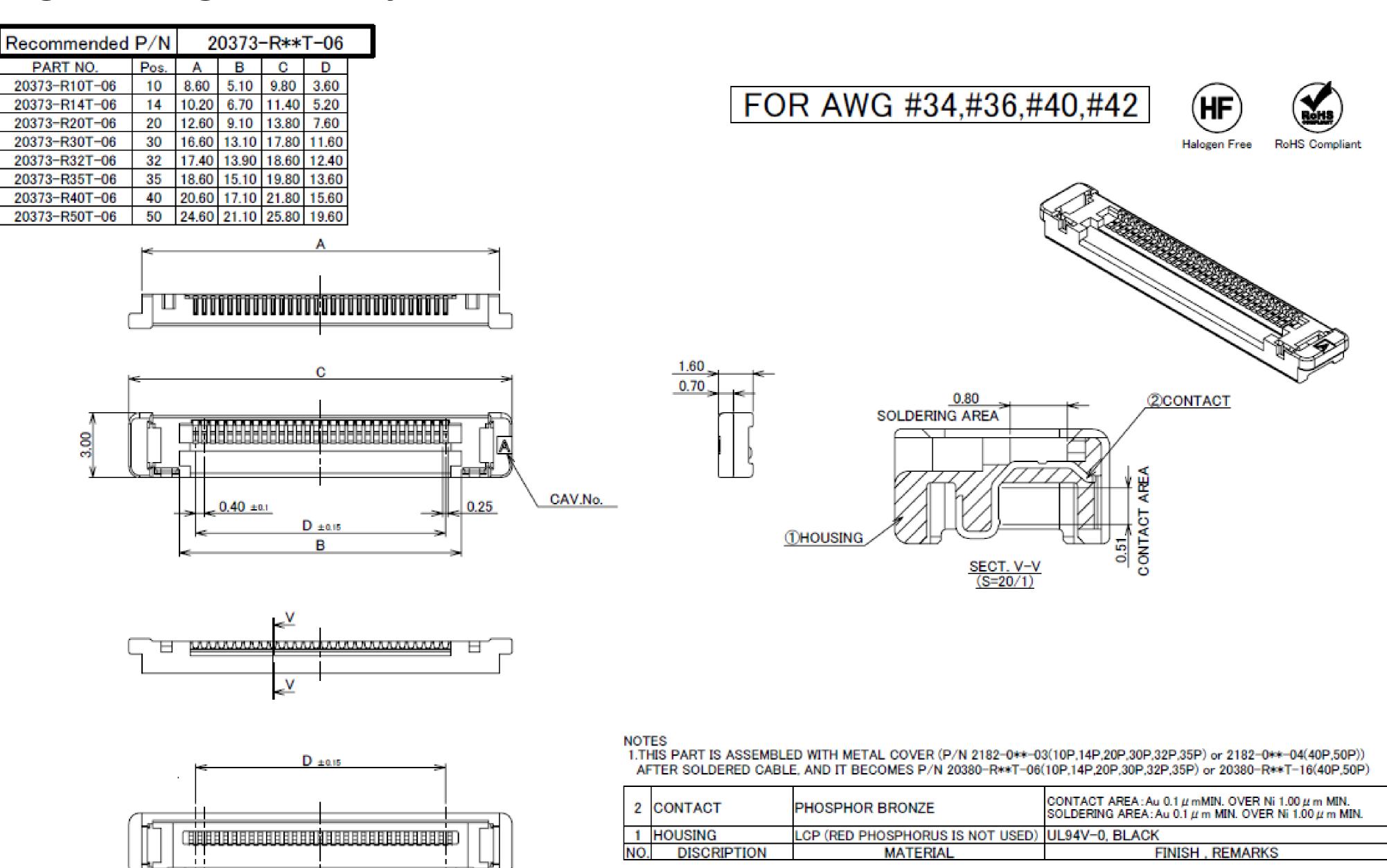
RECOMMENDED DISCRETE WIRE DIMENSION

20380-R**T-06 (10P / 14P / 20P / 30P / 32P / 35P) Recommended P/N 20380-R**T-16 (40P / 50P) POS. MATING RECEP. P/N C D E PART NO. 3.6 4.6 5.0 20374-R10E-31 20380-R10T-06 10 5.2 6.2 6.6 20374-R14E-31 20380-R14T-06 14 7.6 8.6 9.0 20380-R20T-06 20 20374-R20E-31 11.6 12.6 13.0 20380-R30T-06 20374-R30E-31 12.4 13.4 13.8 20380-R32T-06 32 20374-R32E-31 13.6 14.6 15.0 20380-R35T-06 35 20374-R35E-31 15.6 16.6 17.0 20380-R40T-16 20374-R40E-31 19.6 20.6 21.0 20380-R50T-16 50 20374-R50E-31 C+2.0 C ±0.2 LAMINATE TAPE 0.40 ±0.1 CENTER CONDUCTOR (SOLDERING COAT) CHARACTERISTIC IMPEDANCE MACHING MICRO-COAXIAL CABLE Øa +0.05 Øa -0.02 #40 $\phi 0.09$ CENTER CONDUCTOR ϕ 0.075 CUT LINE (AFTER SOLDER COAT.) INSULATOR . Ø 0.30 MAX. GROUND BAR INSULATOR _ 0.47 ±0.03 Ø 0.40 MAX. CHARACTERISTIC IMPEDANCE UN-MACHING MICRO-COAXIAL CABLE JACKET O.80 -6.1 (OUTER CONDUCTOR) $\phi 0.15$ #36 \JACKET | | ' OUTER CONDUCTOR MICRO-COAXIAL CABLE #36: NOT RECOMMENDED FOR LAMINATE TAPE, MICRO-COAXIAL CABLE HIGH SPEED SIGNAL TRANSFAER D -0.3 (AWG #42,40,36) RECOMMENDED MICRO-COAXIAL CABLE DIMENSION (NTS) C+2.0 C ±02 LAMINATE TAPE $0.40_{\pm 0.1}$ CENTER CONDUCTOR DISCRETE WIRE DIMENSION (SOLDERING COAT) CUT LINE #34 ϕ 0.192 Øb +0.05 $\phi 0.15$ #36 CENTER CONDUCTOR (AFTER SOLDER COAT.) _Ø 0.40 MAX. INSULATOR DISCRETE WIRE INSULATOR LAMINATE TAPE (AWG #36,34)



Rev.28

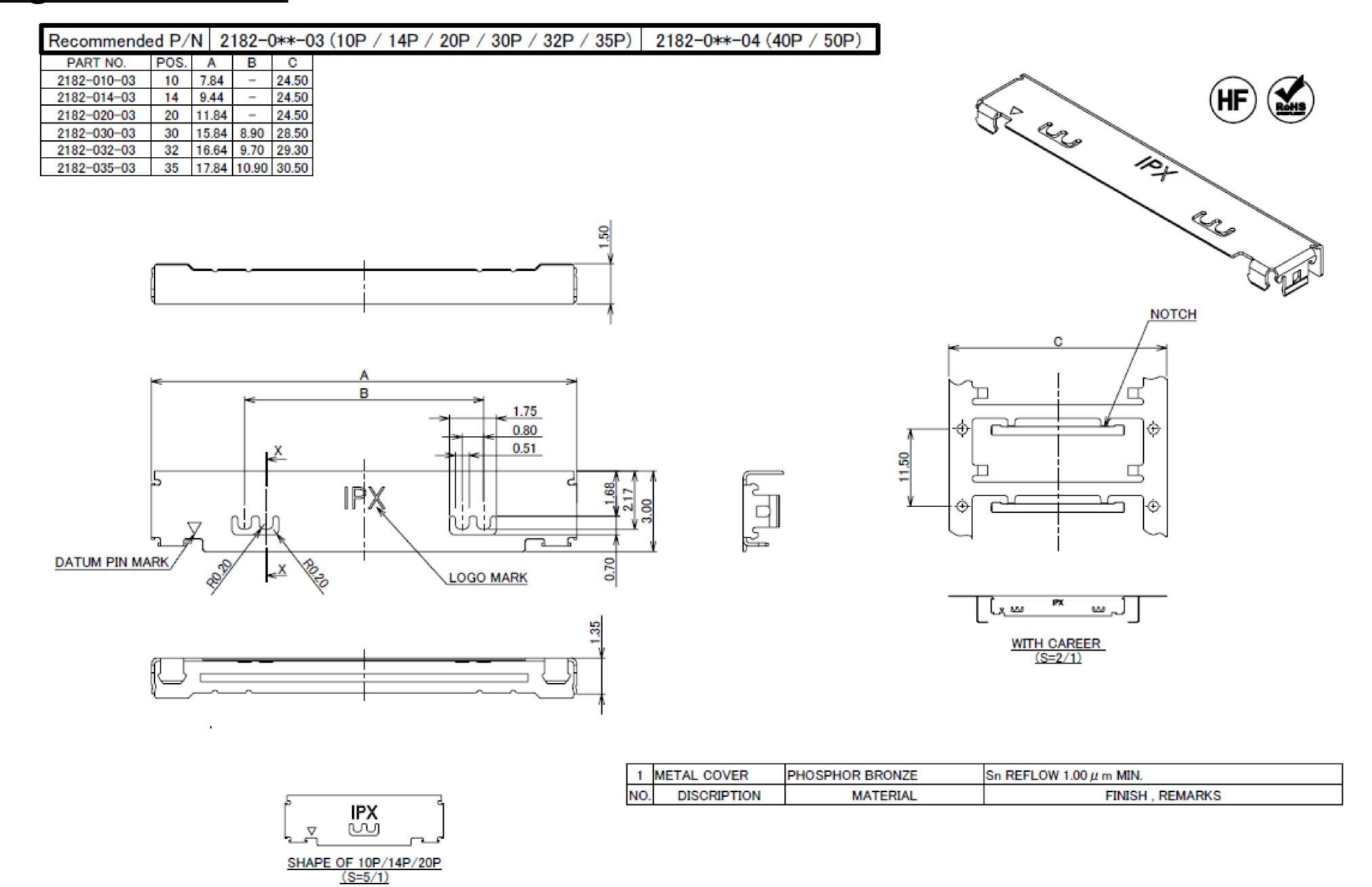
Plug Housing Assembly



Rev.22

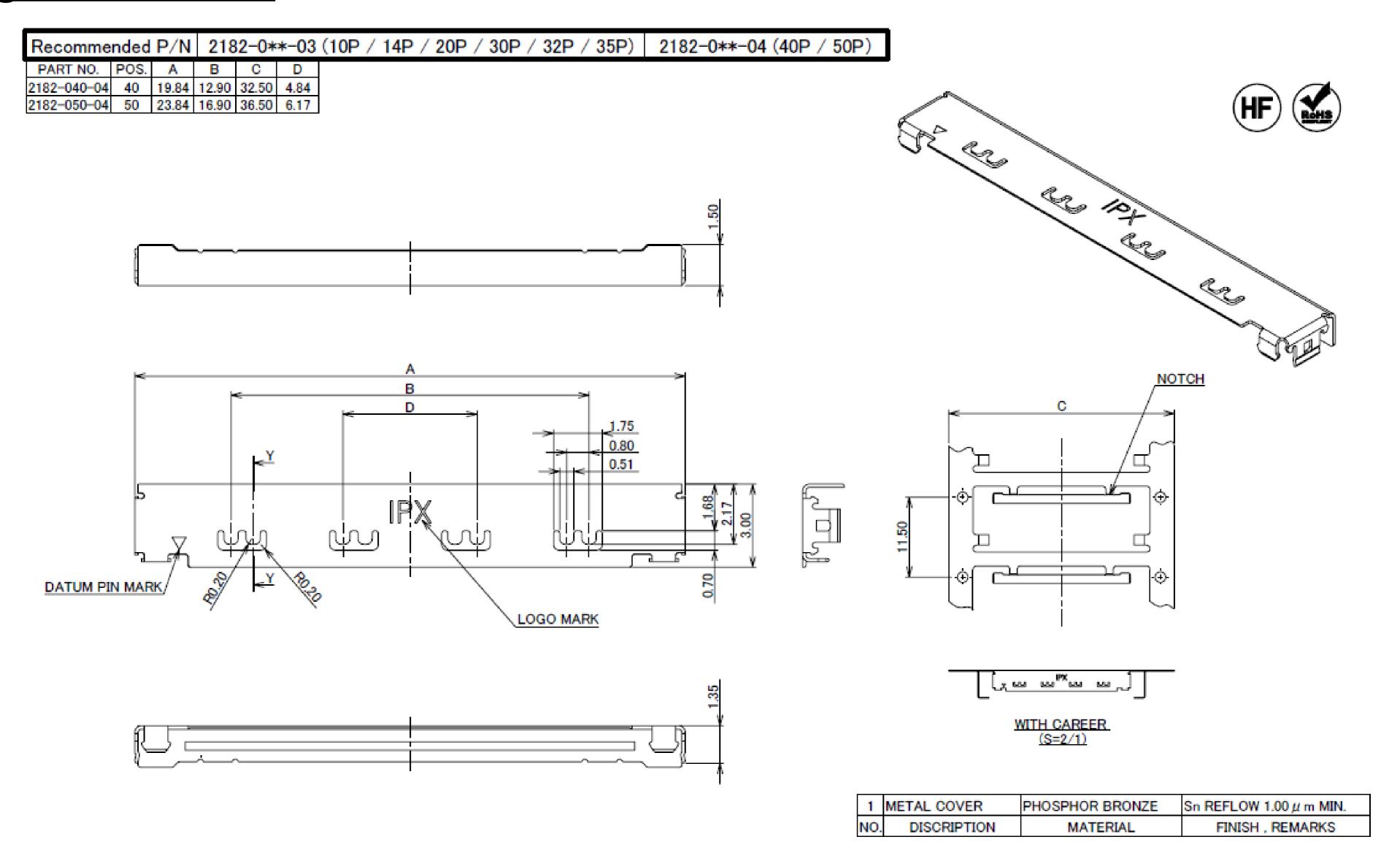
Plug Metal Cover

0.40 ±0.1





Plug Metal Cover



Rev.19

Receptacle Assembly

Recommended	20374-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

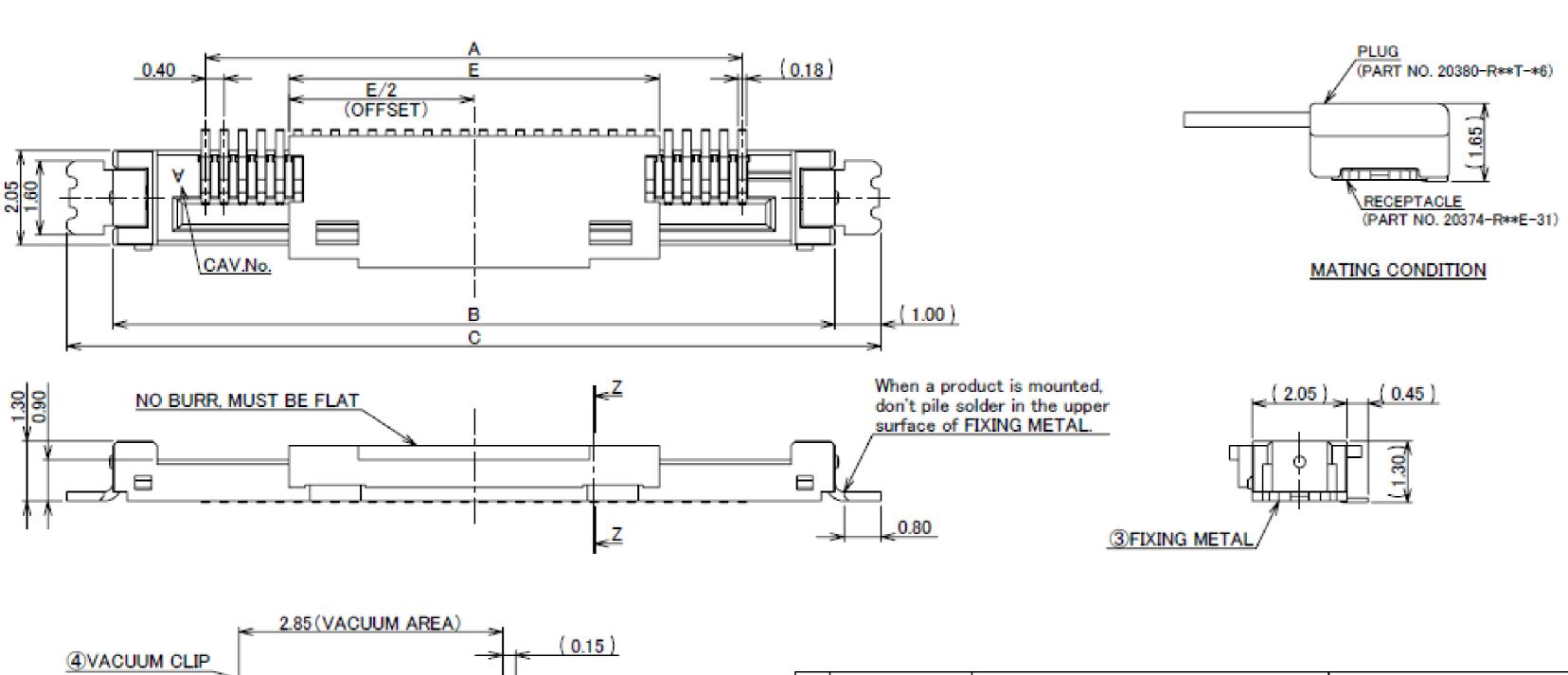
1)HOUSING

2CONTACT

SECT. Z-Z (S=20/1)



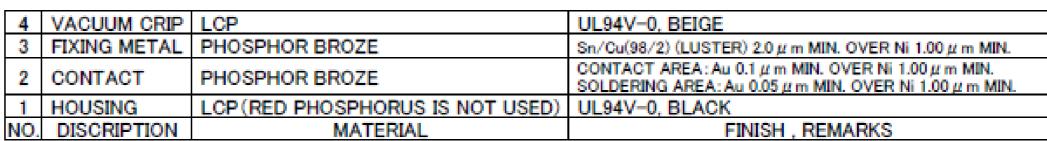




NICKEL BARRIER

0.50

0.30 | | (Au PLATED AREA)

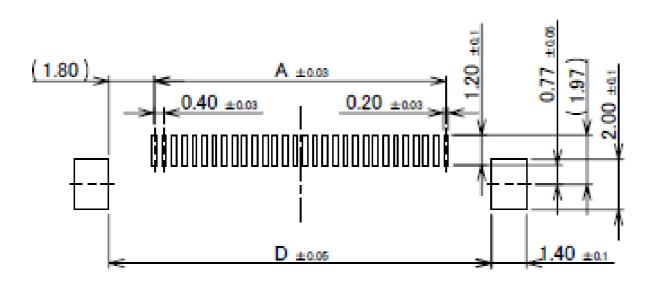


Rev.30

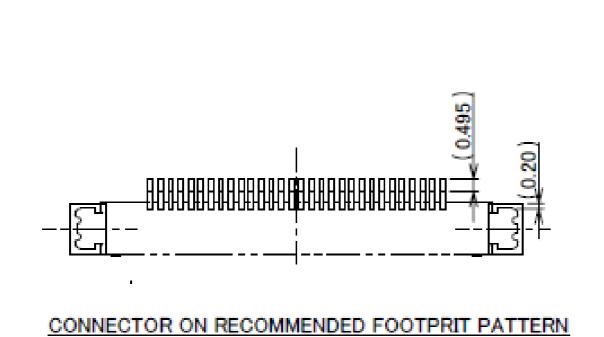


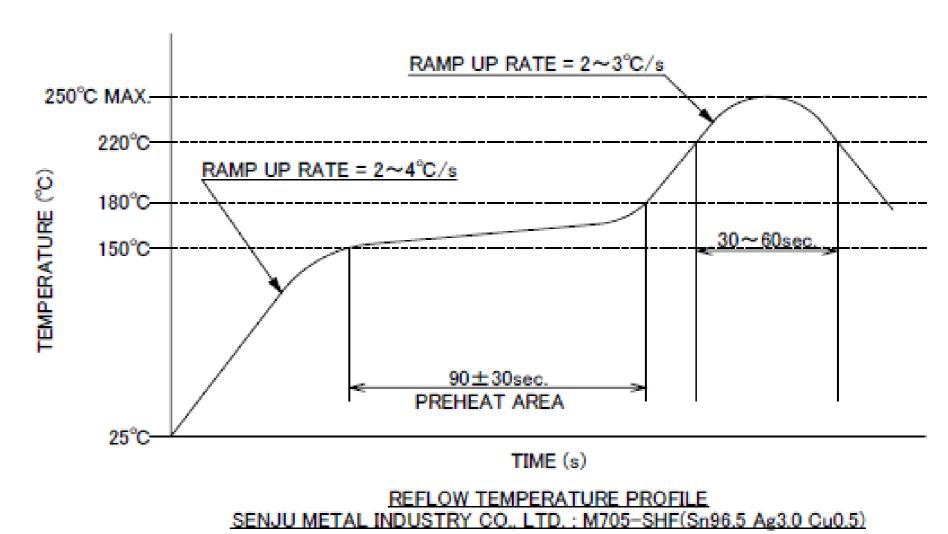
Receptacle Assembly

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%



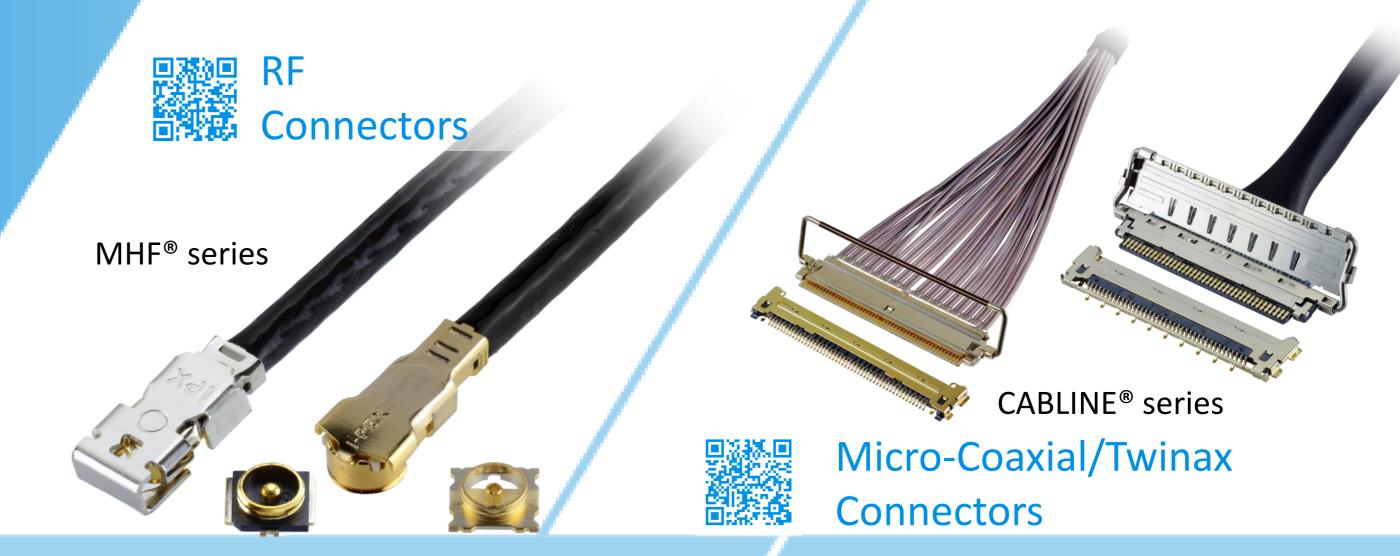


Rev.30

ITEMS	SPECIFICATION			
APPLICABLE CABLE	MICRO-COAXIAL CABLE: AWG# 42, 40, 36 DISCRETE WIRE: AWG# 36, 34			
RATING VOLTAGE	100V AC (PER CONTACT PIN) XTHIS 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)	0.24A 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***			



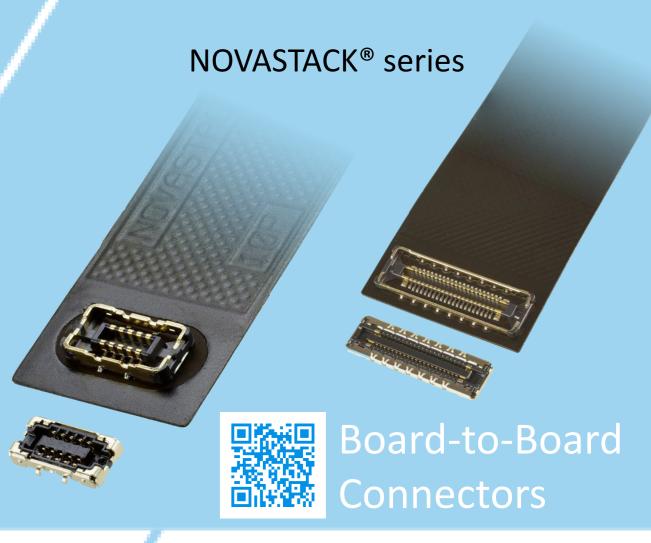
Custom Connectors Available



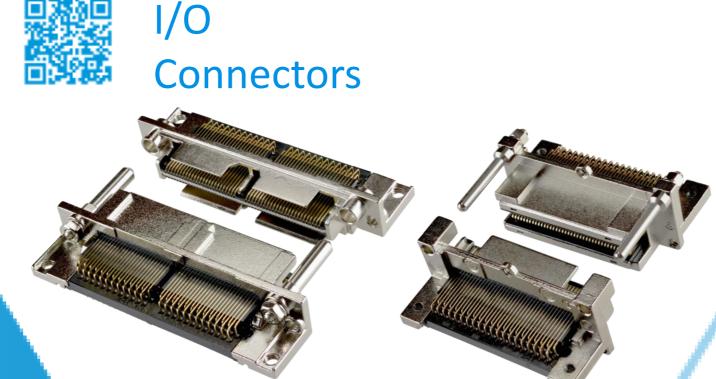




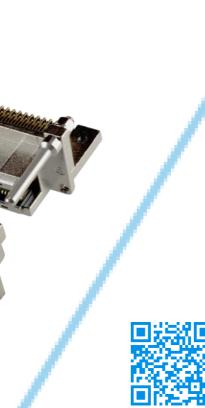




MINIFLEX® series



MINIDOCKTM series







EVAFLEX® series







I-PEX, MHF, CABLINE, NOVASTACK, ISH, IARPB, MINIFLEX, EVAFLEX, MINIDOCK 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

