

CABLINE® -SS

高速数据传输（16 Gbps/Lane）窄型，坚固，支持大电流传输（AWG 34），间距0.4 mm，垂直插拔，水平出线的极细同轴线连接器

Product Specifications:

Mating type		Right angle vertical
Board Pitch		0.4 mm
Wiping Length		0.3 mm
Mated Size	Height	1.85 mm max.
	Width	5.8 + (0.4 x pin count) mm
	Depth	3.0 mm
Pin Counts	Range	Up to 50
	Available	10, 14, 20, 30, 32, 35, 40, 50

Applicable Cable Size:

Maximum O.D.	0.4 mm
Micro-Coaxial for Signal	45 ohm : AWG 38 or smaller
	50 ohm : AWG 40 or smaller
Twinaxial	-
Discrete	AWG 34 or smaller

Applicable Standards (Reference Only):

V-by-One® US (16 Gbps/Lane), HDMI 2.1 (12 Gbps/Lane), USB3.2 Gen2 (10 Gbps/ Lane)

*如您需要了解未列出或不在范围内的Pin数，请咨询我们。



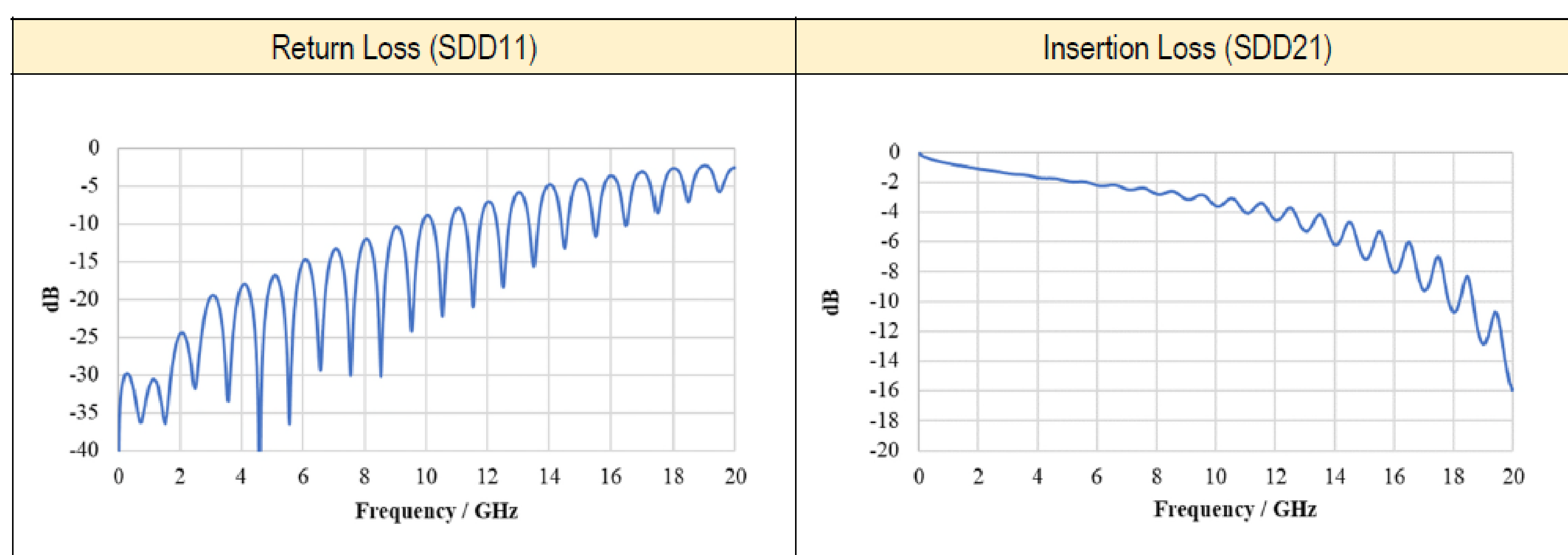
► 高速率传输, 16 Gbps/Lane应用的理想之选

Measurement results

Connector: CABLINE-SS 40 pin

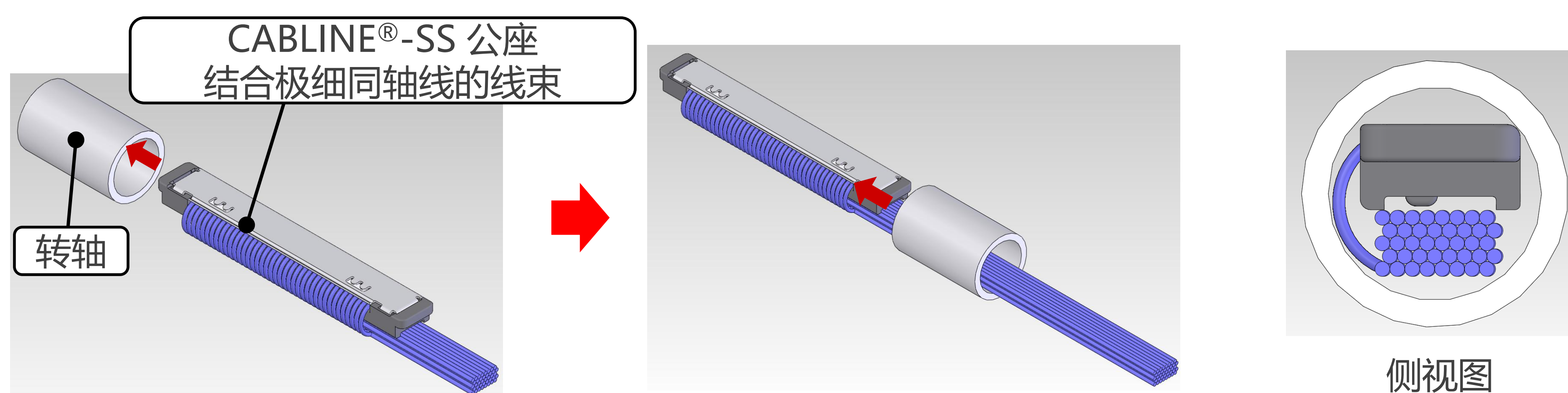
Cable: Micro-coaxial cable
AWG 40, 45ohm , Length : 100 mm

Pin Assignment: GSSGSSG

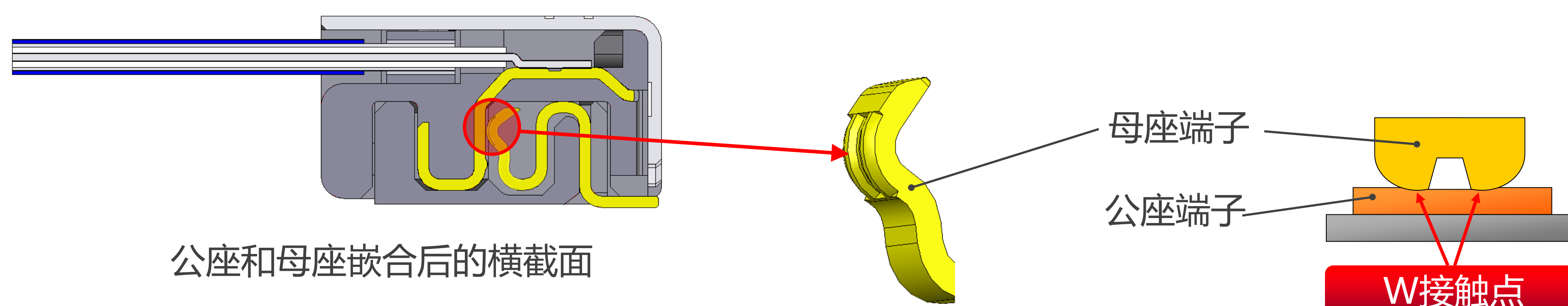


► 窄小型设计适于穿孔，电源供电用途用最大可配合AWG 34线缆使用

窄小型公座的线束可以穿过小型转轴。



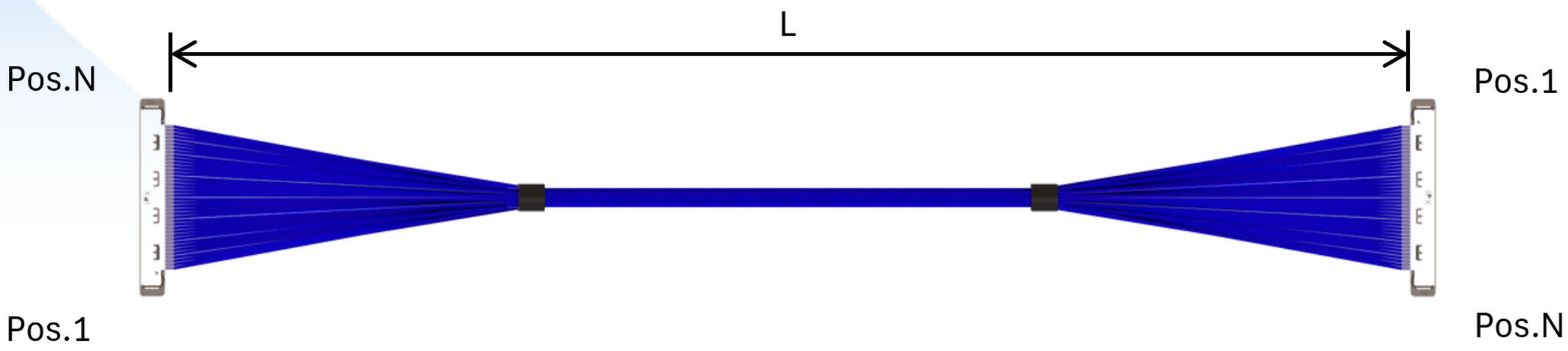
► 独特W-Point双触点设计，实现高接触可靠



W-Point接点技术，能够在恶劣环境下维持公座端子与母座端子间的良好接触品质，相较单点接触方式，具有更好的而接触可靠度。

CABLINE® -SS standard harness

- ◆ Please click the part number to get its 2D drawing.
- ◆ Please be advised that if it becomes necessary to change the harness specifications, the part number will also need to be updated. The following part number is valid only when used with the harness specifications shown below.
- ◆ Please contact us via [Inquiry form](#) for other harness specifications.

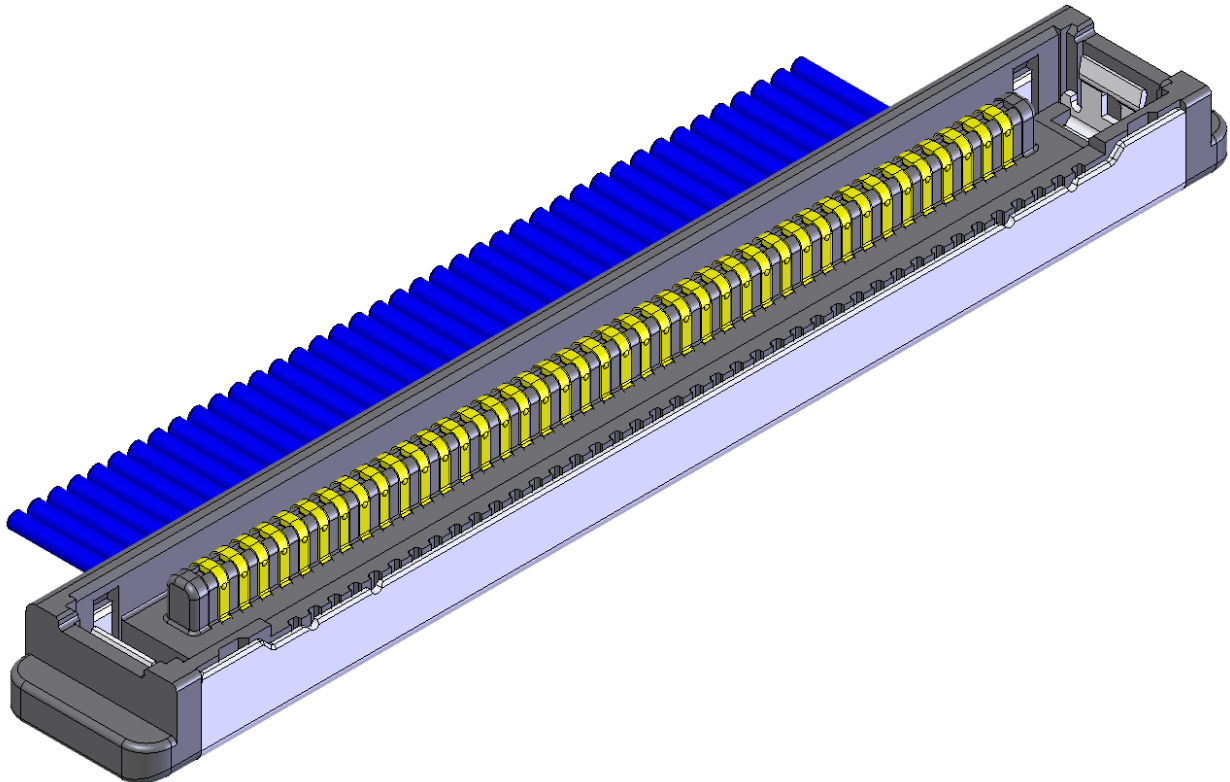


Part Number Description	Part Number (Link to Drawing)	Sample available
CABLINE-SS harness 10pin micro-coaxial 40AWG L=200mm 1-N	82440-100B-02-D	Buy from Digikey
CABLINE-SS harness 14pin micro-coaxial 40AWG L=200mm 1-N	82441-100B-02-D	Buy from Digikey
CABLINE-SS harness 20pin micro-coaxial 40AWG L=200mm 1-N	82069-100B-02-D	Buy from Digikey
CABLINE-SS harness 30pin micro-coaxial 40AWG L=200mm 1-N	81463-100B-02-D	Buy from Digikey
CABLINE-SS harness 40pin micro-coaxial 40AWG L=200mm 1-N	81464-100B-02-D	Buy from Digikey
CABLINE-SS harness 32pin micro-coaxial 40AWG L=200mm 1-N	82442-100B-02-D	Buy from Digikey
CABLINE-SS harness 35pin micro-coaxial 40AWG L=200mm 1-N	82443-100B-02-D	Buy from Digikey
CABLINE-SS harness 50pin micro-coaxial 40AWG L=200mm 1-N	82444-100B-02-D	Buy from Digikey

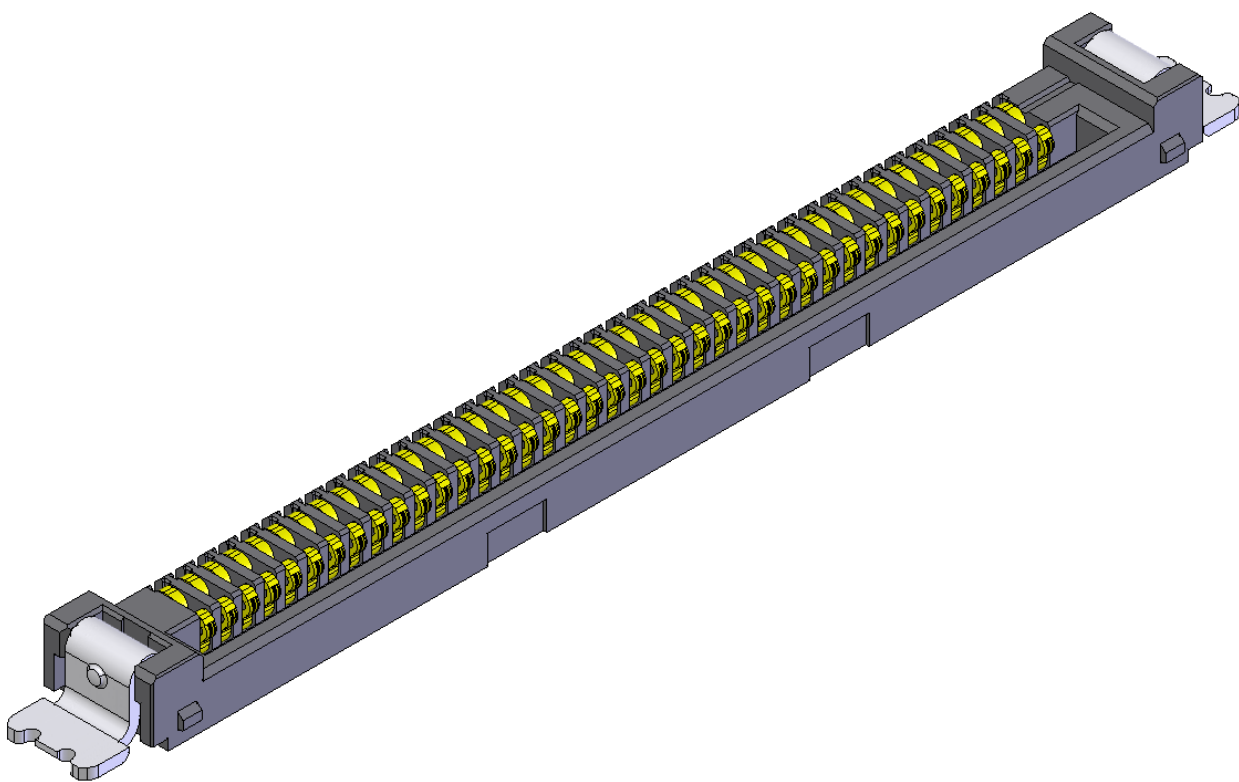
Component Parts Details

Component Parts

Connector parts

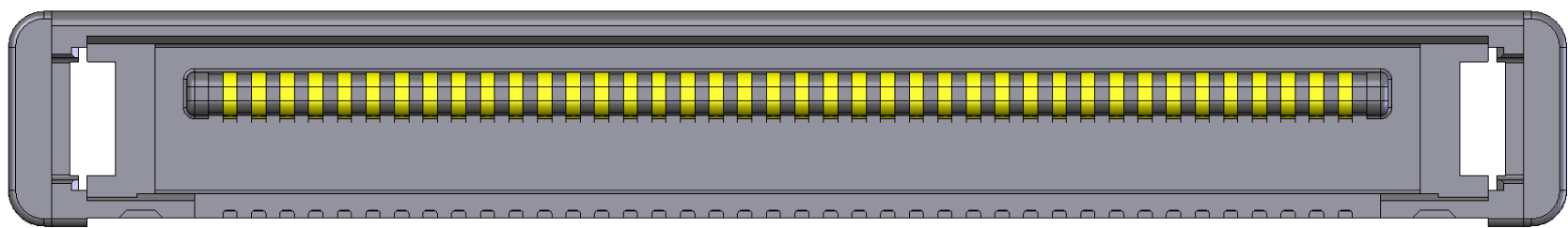


PLUG



RECEPTACLE

Plug parts



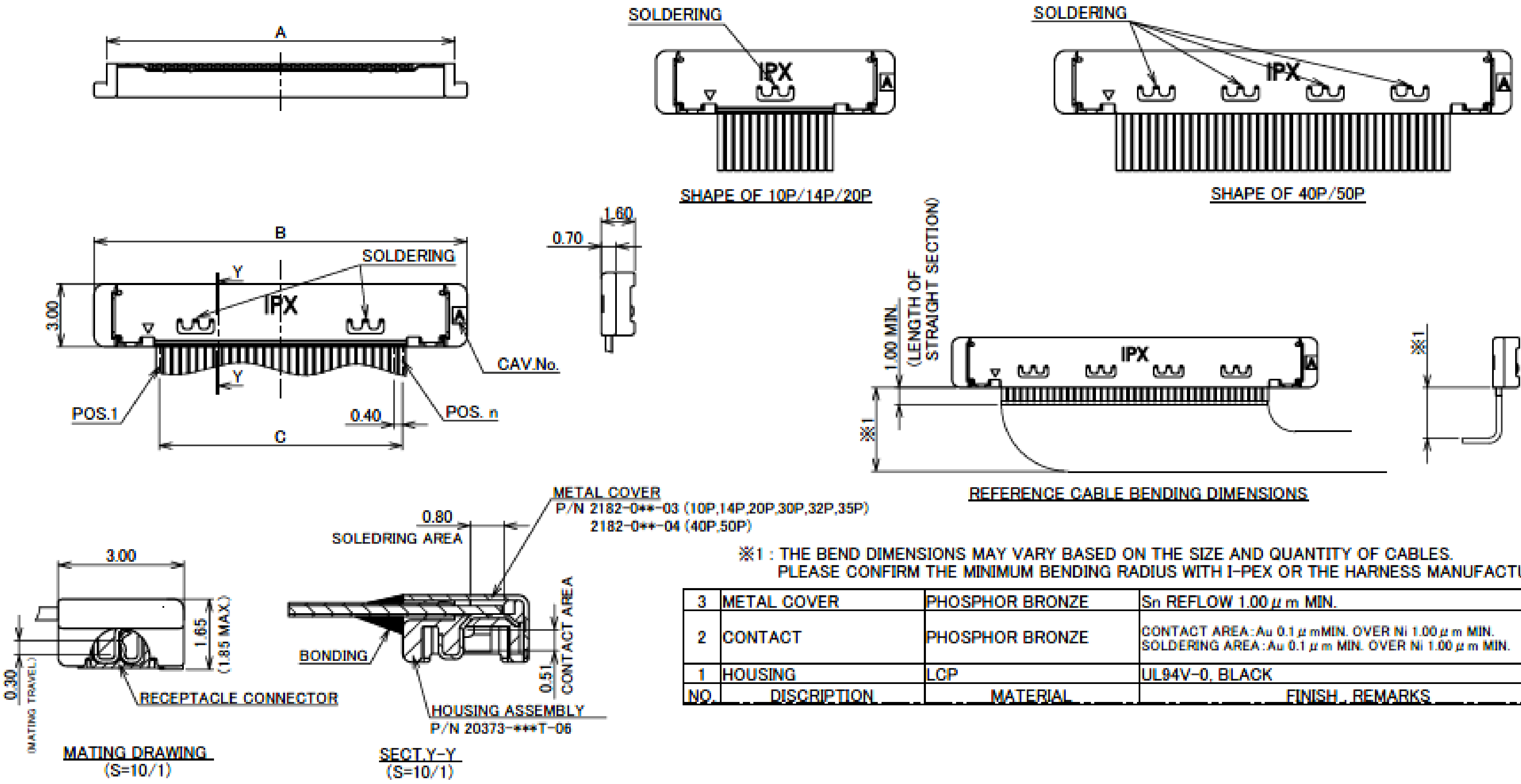
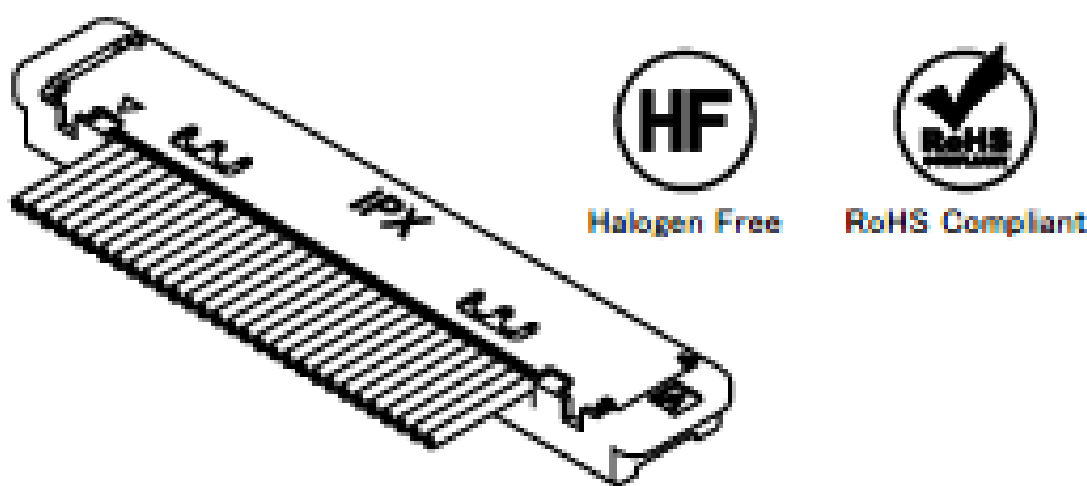
PLUG HOUSING ASSEMBLY



PLUG METAL COVER

Plug for Cable Assembly

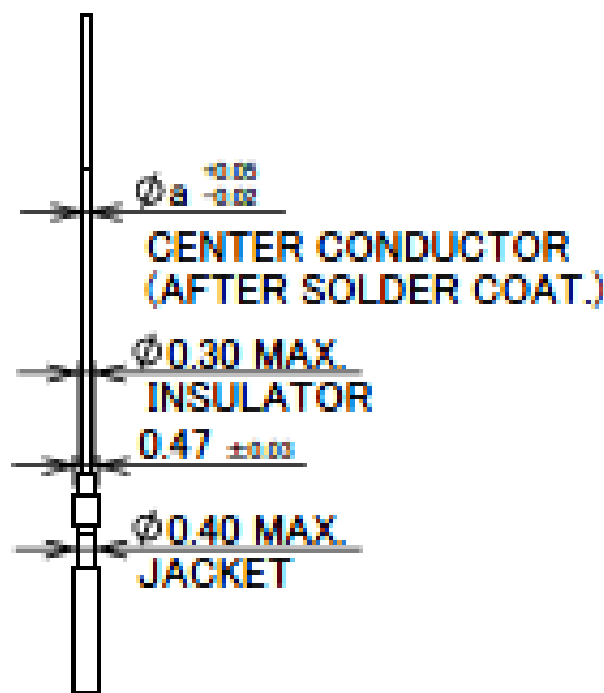
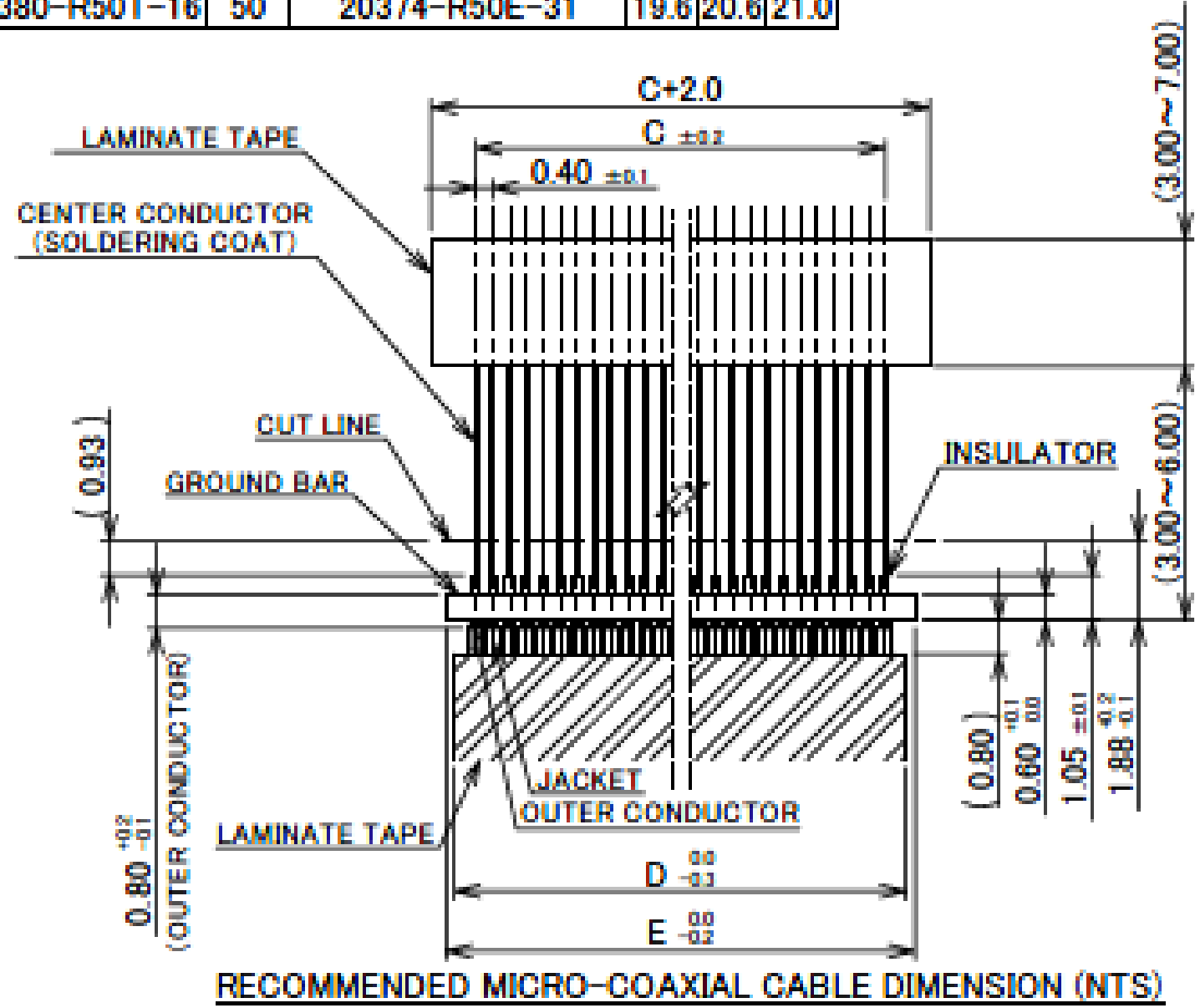
Recommended P/N		20380-R**T-06 (10P / 14P / 20P / 30P / 32P / 35P)					20380-R**T-16 (40P / 50P)	
PART NO.	POS.	MATING RECEPTACLE P/N	A	B	C			
20380-R10T-06	10	20374-R10E-31	8.6	9.8	3.6			
20380-R14T-06	14	20374-R14E-31	10.2	11.4	5.2			
20380-R20T-06	20	20374-R20E-31	12.6	13.8	7.6			
20380-R30T-06	30	20374-R30E-31	16.6	17.8	11.6			
20380-R32T-06	32	20374-R32E-31	17.4	18.6	12.4			
20380-R35T-06	35	20374-R35E-31	18.6	19.8	13.6			
20380-R40T-16	40	20374-R40E-31	20.6	21.8	15.6			
20380-R50T-16	50	20374-R50E-31	24.6	25.8	19.6			



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

Rev.29

Recommended P/N		20380-R**T-06 (10P / 14P / 20P / 30P / 32P / 35P)					20380-R**T-16 (40P / 50P)	
PART NO.	POS.	MATING RECEPTACLE P/N	G	D	E			
20380-R10T-06	10	20374-R10E-31	3.6	4.6	5.0			
20380-R14T-06	14	20374-R14E-31	5.2	6.2	6.6			
20380-R20T-06	20	20374-R20E-31	7.6	8.6	9.0			
20380-R30T-06	30	20374-R30E-31	11.6	12.6	13.0			
20380-R32T-06	32	20374-R32E-31	12.4	13.4	13.8			
20380-R35T-06	35	20374-R35E-31	13.6	14.6	15.0			
20380-R40T-16	40	20374-R40E-31	15.6	16.6	17.0			
20380-R50T-16	50	20374-R50E-31	19.6	20.6	21.0			



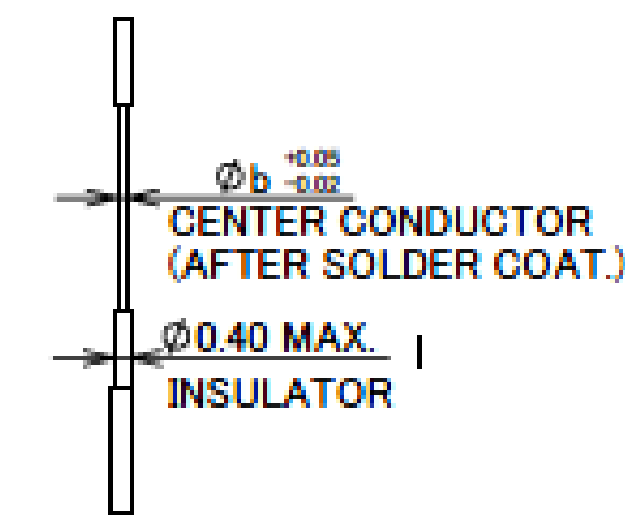
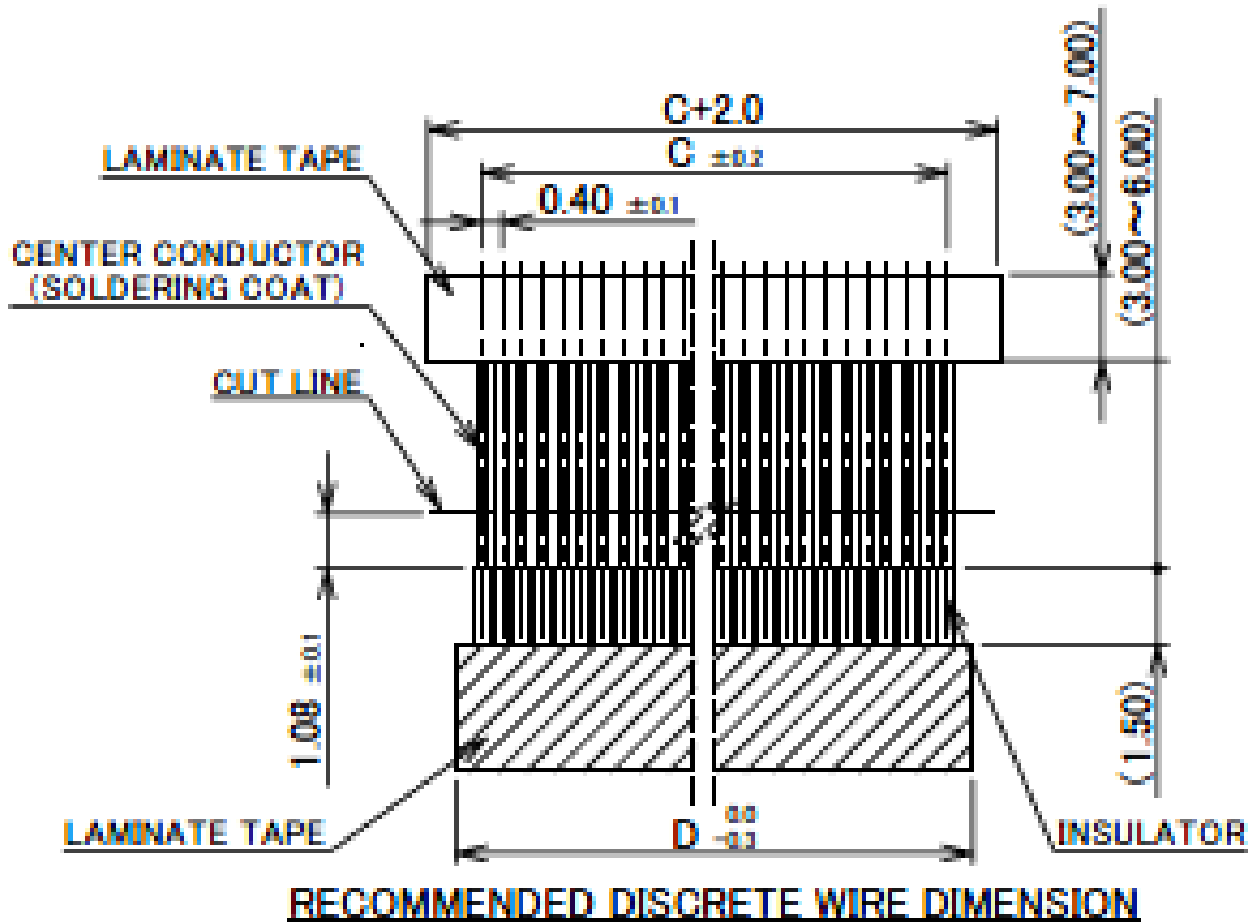
CHARACTERISTIC IMPEDANCE MACHING MICRO-COAXIAL CABLE

	a
#40	φ 0.09
#42	φ 0.075

CHARACTERISTIC IMPEDANCE UN-MACHING MICRO-COAXIAL CABLE

	a
#36	φ 0.15

MICRO-COAXIAL CABLE #36 : NOT RECOMMENDED FOR HIGH SPEED SIGNAL TRANSFAER



DISCRETE WIRE DIMENSION

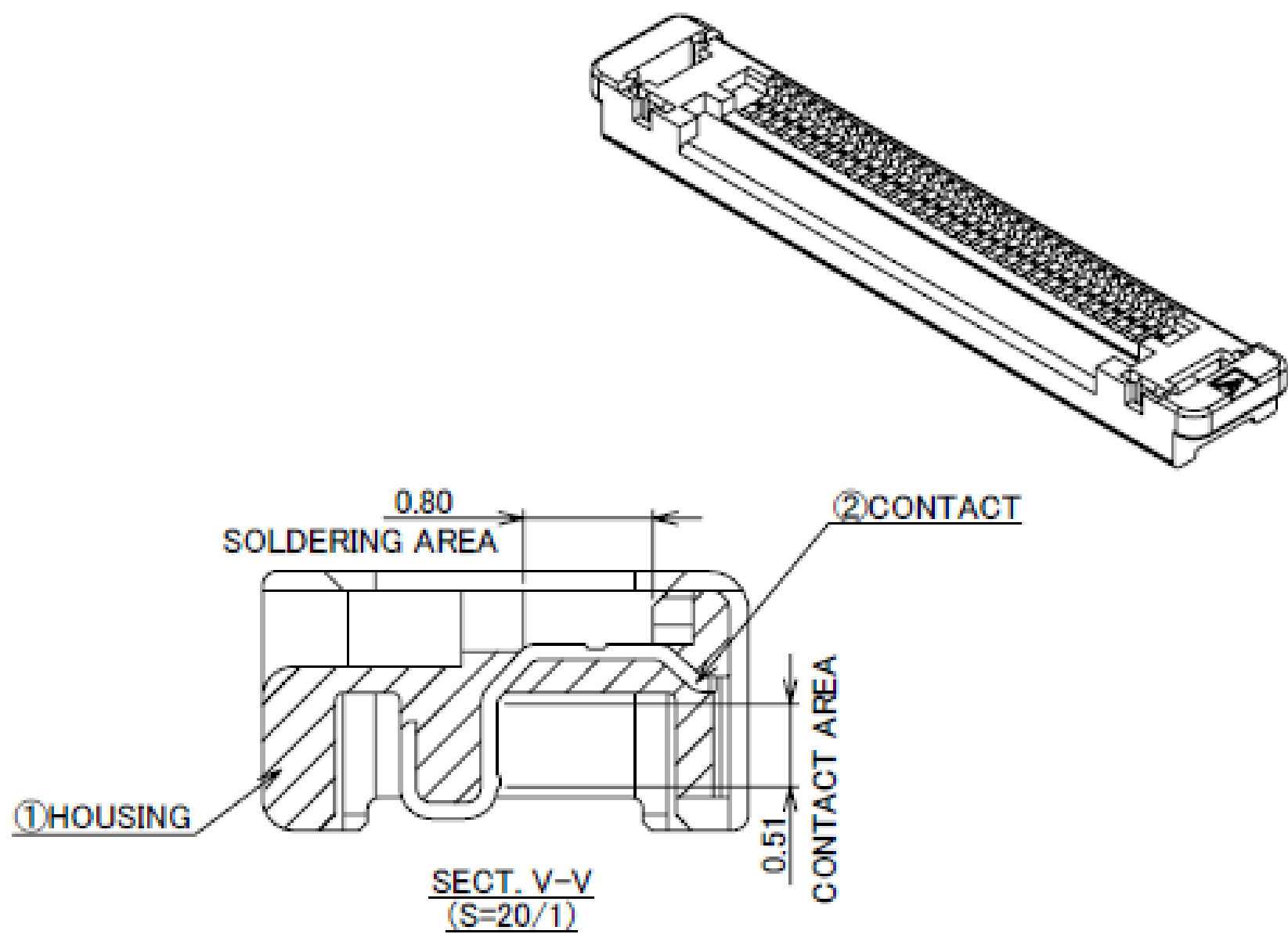
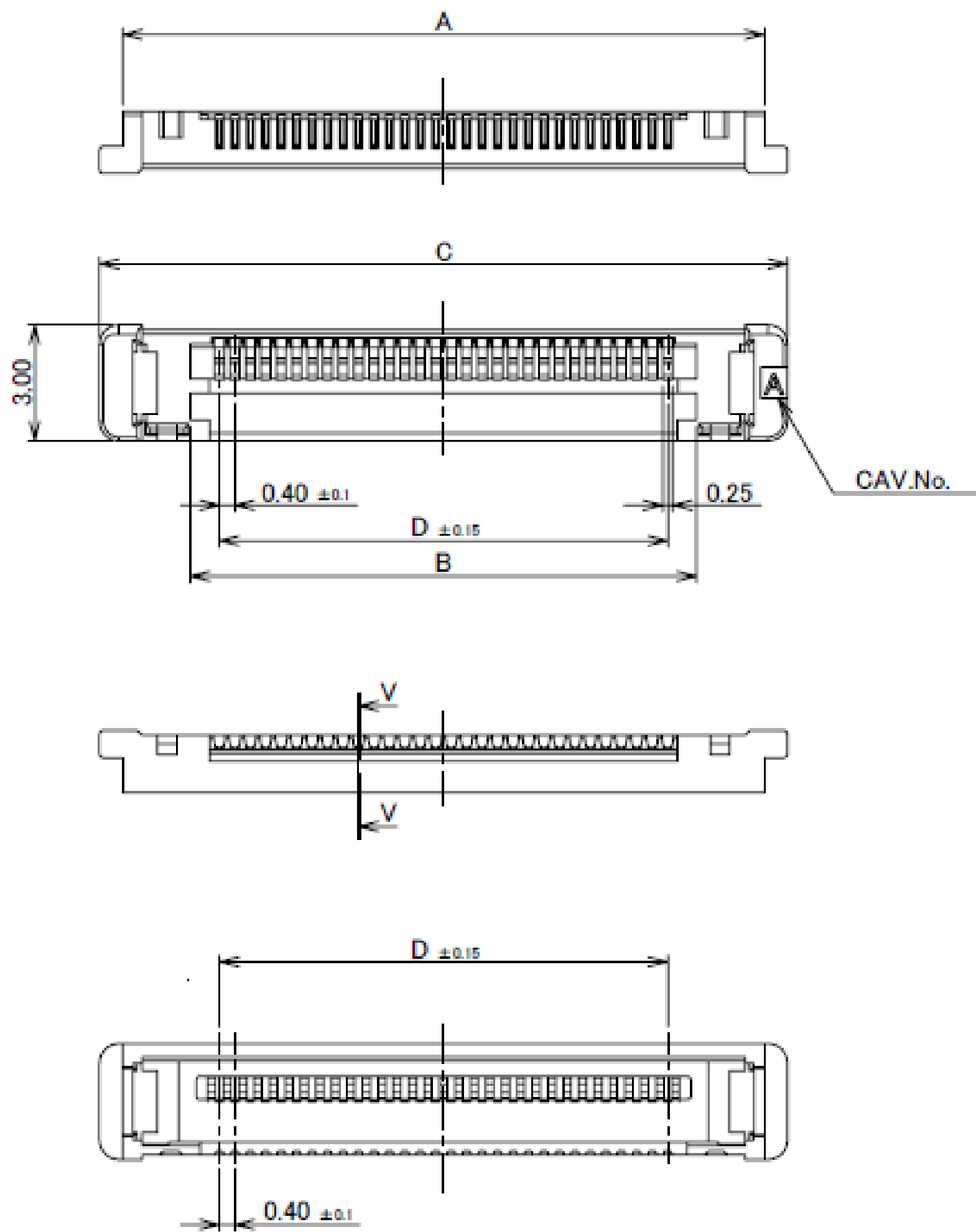
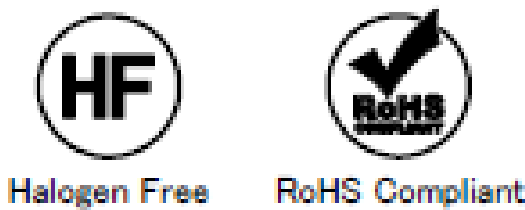
	b
#34	φ 0.192
#36	φ 0.15

Rev.29

Plug Housing Assembly

Recommended P/N		20373-R**T-06			
PART NO.	Pos.	A	B	C	D
20373-R10T-06	10	8.60	5.10	9.80	3.60
20373-R14T-06	14	10.20	6.70	11.40	5.20
20373-R20T-06	20	12.60	9.10	13.80	7.60
20373-R30T-06	30	16.60	13.10	17.80	11.60
20373-R32T-06	32	17.40	13.90	18.60	12.40
20373-R35T-06	35	18.60	15.10	19.80	13.60
20373-R40T-06	40	20.60	17.10	21.80	15.60
20373-R50T-06	50	24.60	21.10	25.80	19.60

FOR AWG #34,#36,#40,#42



NOTES

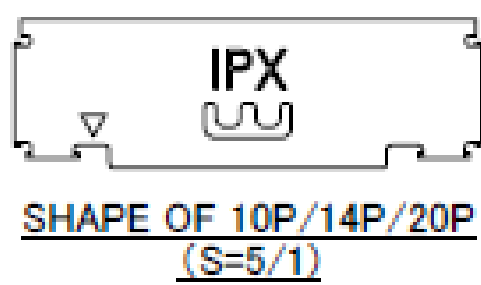
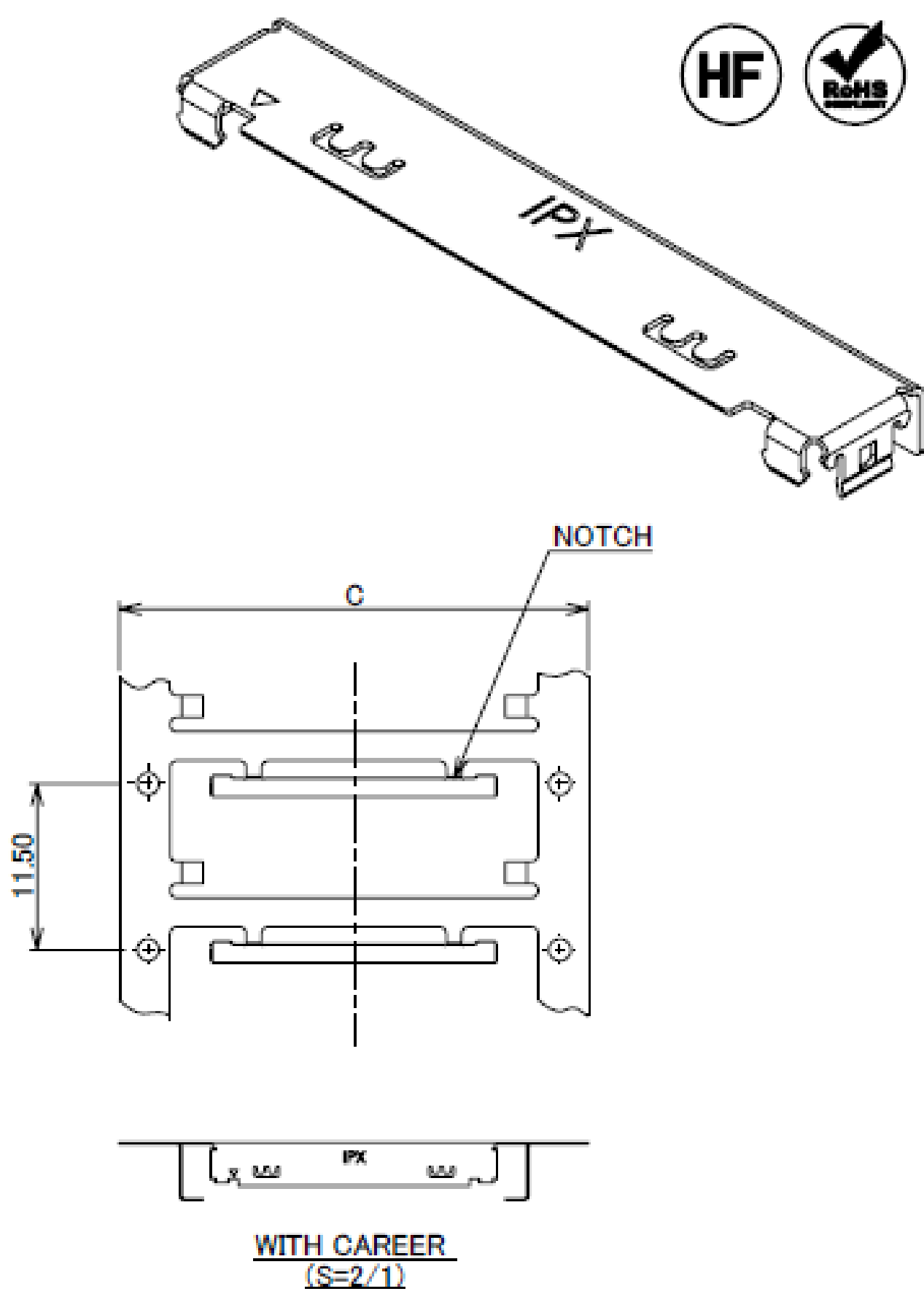
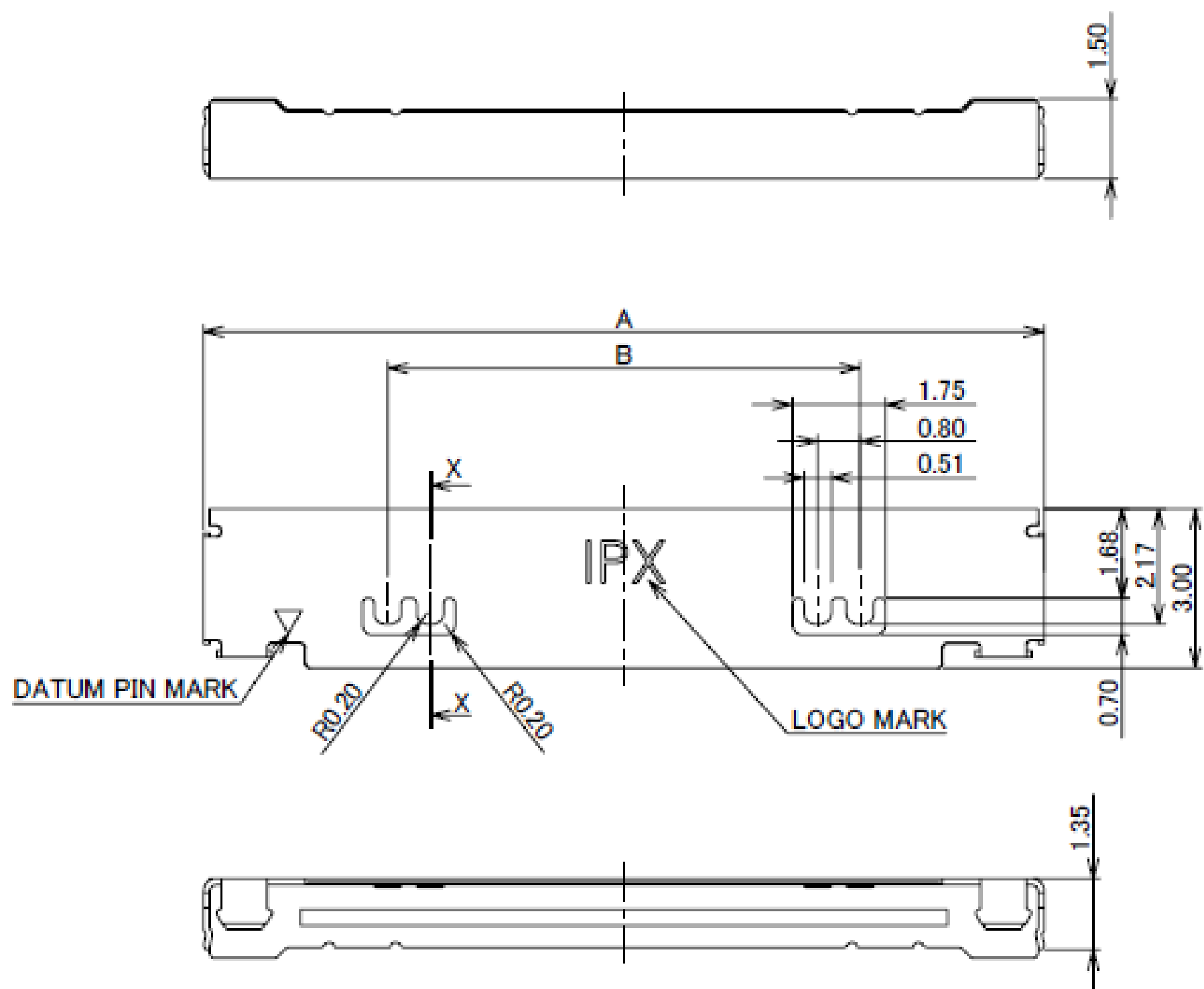
1.THIS PART IS ASSEMBLED WITH METAL COVER (P/N 2182-0**-03(10P,14P,20P,30P,32P,35P) or 2182-0**-04(40P,50P)) AFTER SOLDERED CABLE, AND IT BECOMES P/N 20380-R**T-06(10P,14P,20P,30P,32P,35P) or 20380-R**T-16(40P,50P)

2	CONTACT	PHOSPHOR BRONZE	CONTACT AREA: Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDERING AREA: Au 0.1 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.22

Plug Metal Cover

Recommended P/N		2182-0**-03 (10P / 14P / 20P / 30P / 32P / 35P)			2182-0**-04 (40P / 50P)	
PART NO.	POS.	A	B	C		
2182-010-03	10	7.84	-	24.50		
2182-014-03	14	9.44	-	24.50		
2182-020-03	20	11.84	-	24.50		
2182-030-03	30	15.84	8.90	28.50		
2182-032-03	32	16.64	9.70	29.30		
2182-035-03	35	17.84	10.90	30.50		

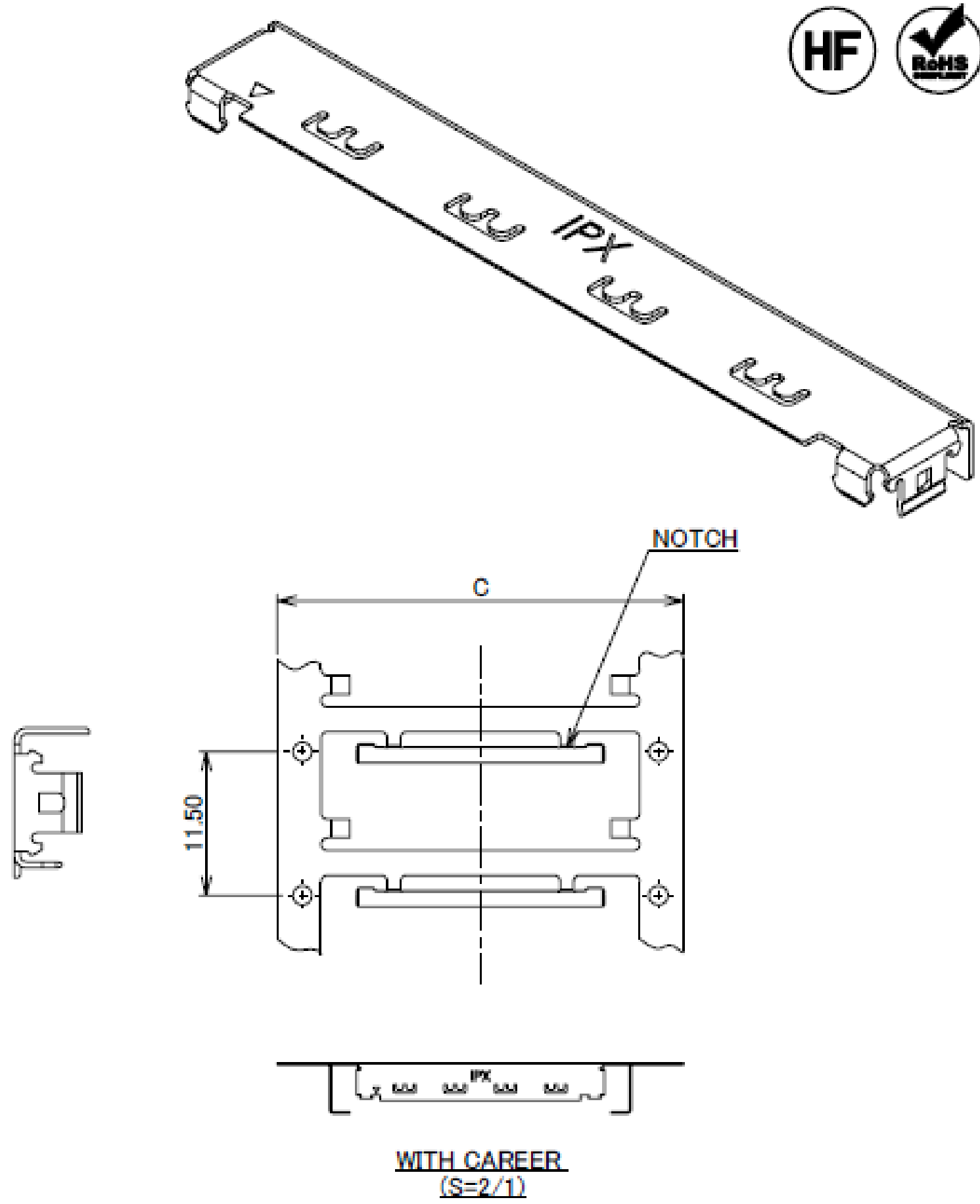
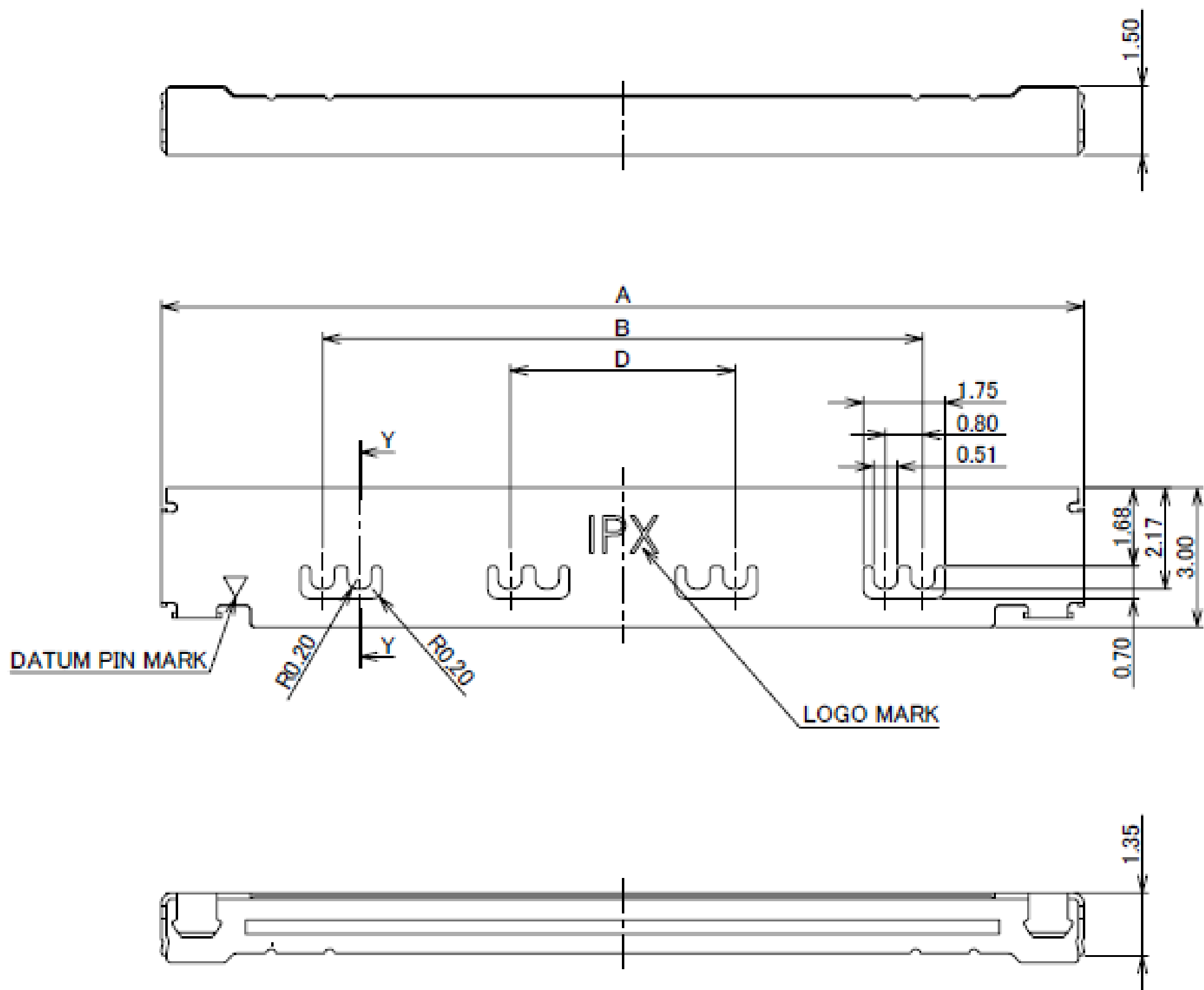


1	METAL COVER	PHOSPHOR BRONZE	Sn REFLOW 1.00 μ m MIN.
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

Rev.19

Plug Metal Cover

Recommended P/N		2182-0**-03 (10P / 14P / 20P / 30P / 32P / 35P)				2182-0**-04 (40P / 50P)			
PART NO.	POS.	A	B	C	D				
2182-040-04	40	19.84	12.90	32.50	4.84				
2182-050-04	50	23.84	16.90	36.50	6.17				

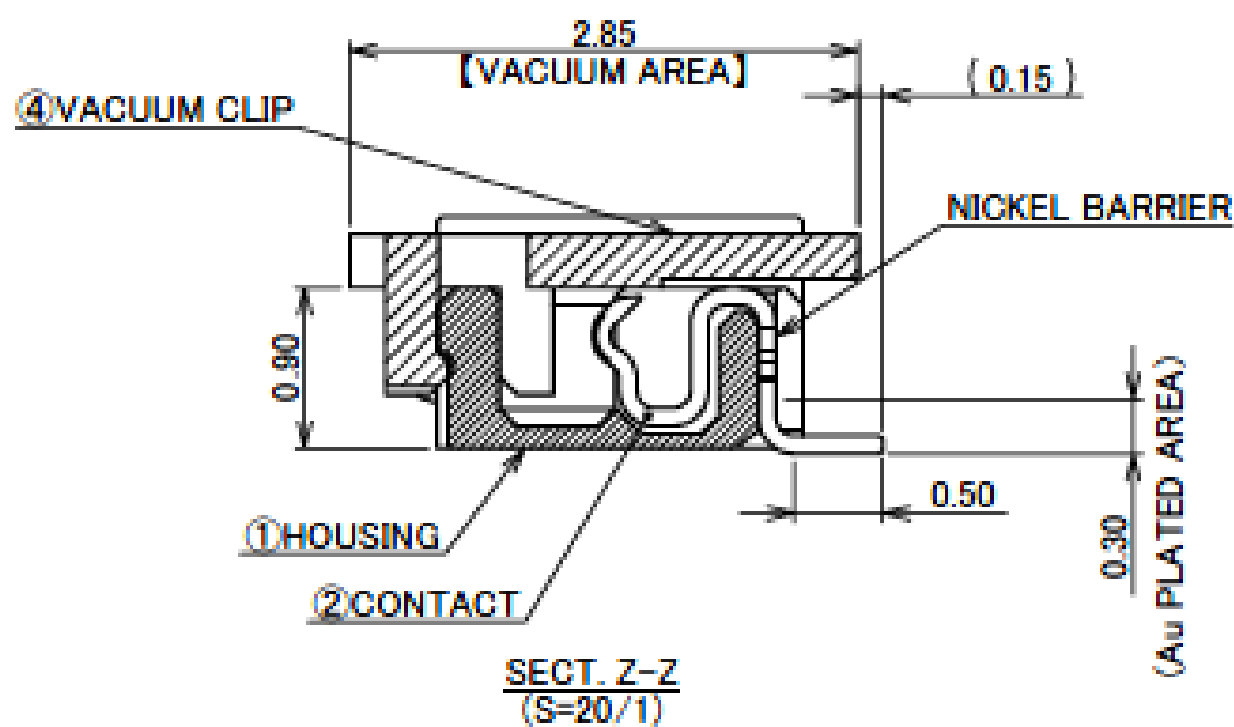
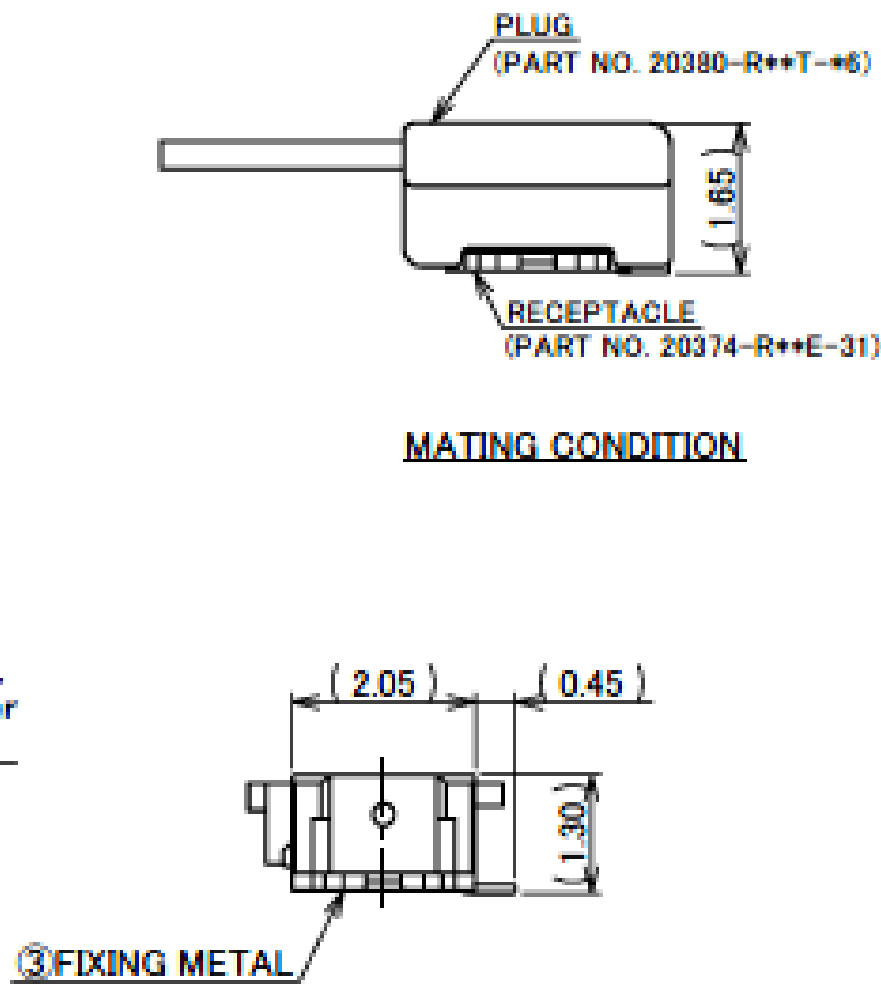
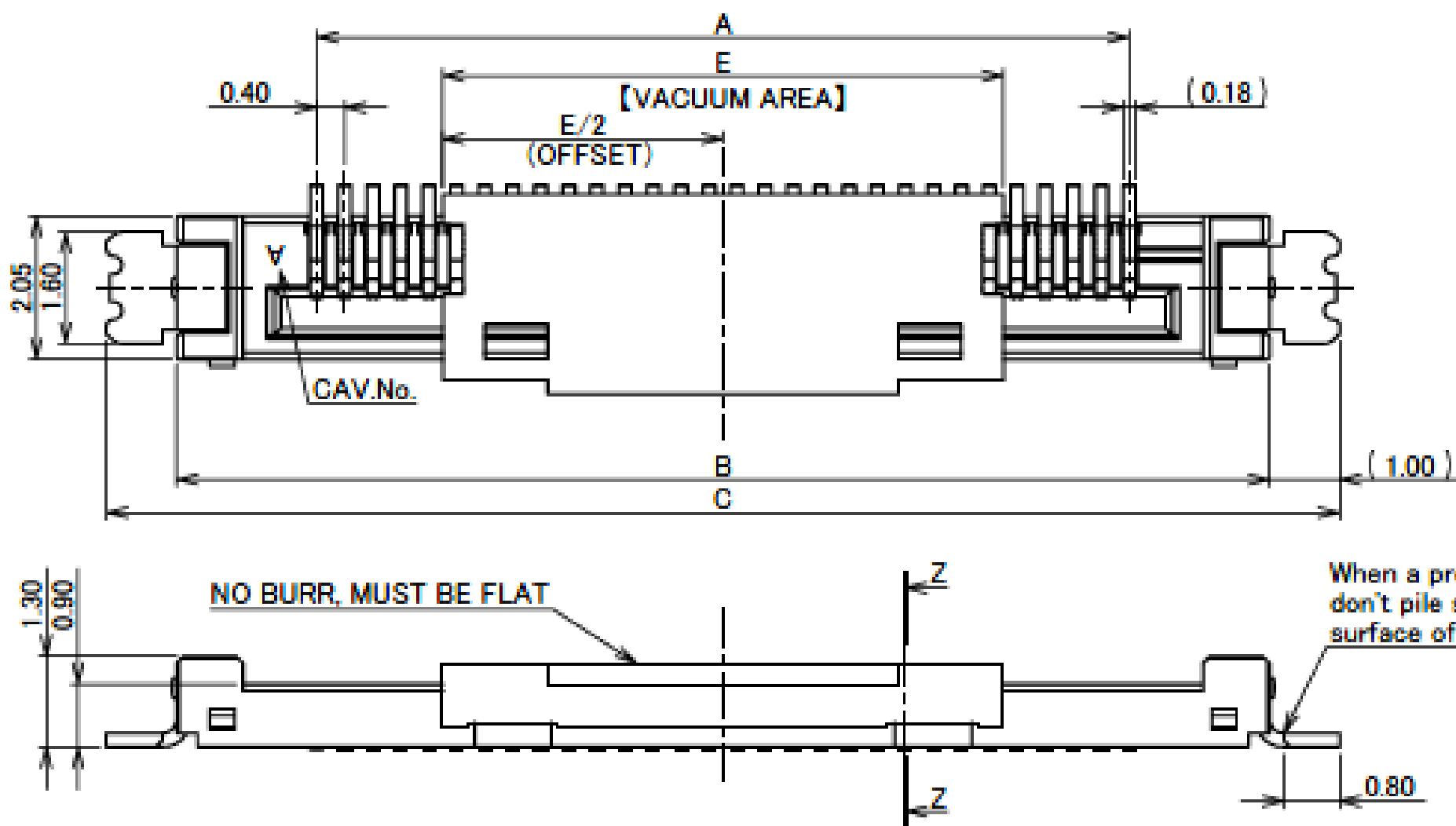
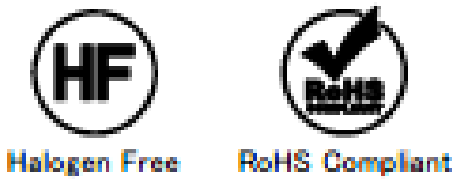


1	METAL COVER	PHOSPHOR BRONZE	Sn REFLOW 1.00 μ m MIN.
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

Rev.19

Receptacle Assembly

Recommended P/N		20374-R**E-31				
PART NO.	POS.	A	B	C	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	17.50	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

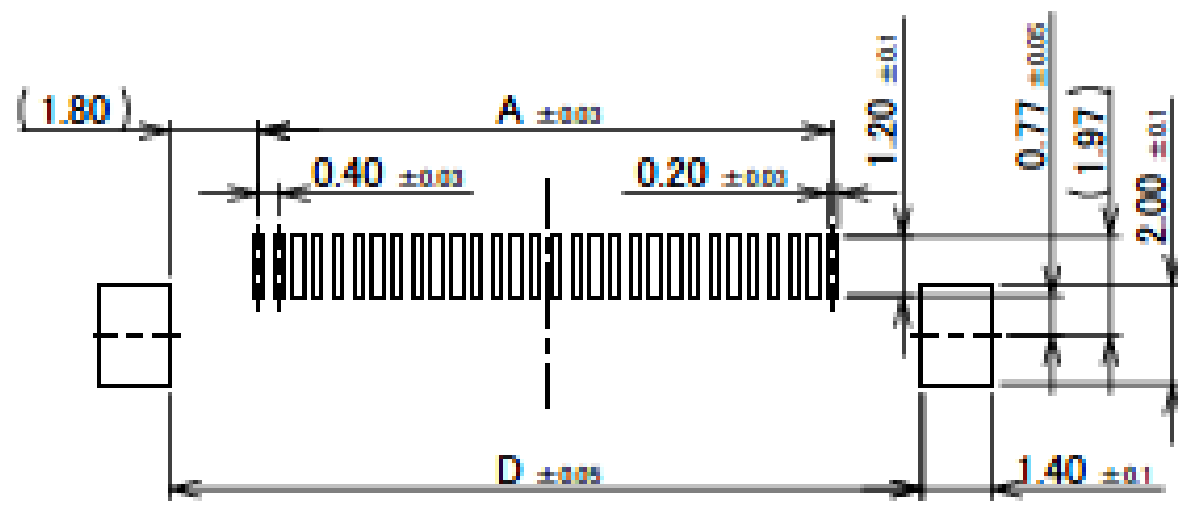


4	VACUUM CRIP	LCP	UL94V-0, BEIGE
3	FIXING METAL	PHOSPHOR BROZE	Sn/Cu(98/2) (LUSTER) 2.0 μ m MIN. OVER Ni 1.00 μ m MIN.
2	CONTACT	PHOSPHOR BROZE	CONTACT AREA: Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN.
1	HOUSING	LCP (RED PHOSPHORUS IS NOT USED)	SOLDERING AREA: Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.
NO.	DISCRIPTION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

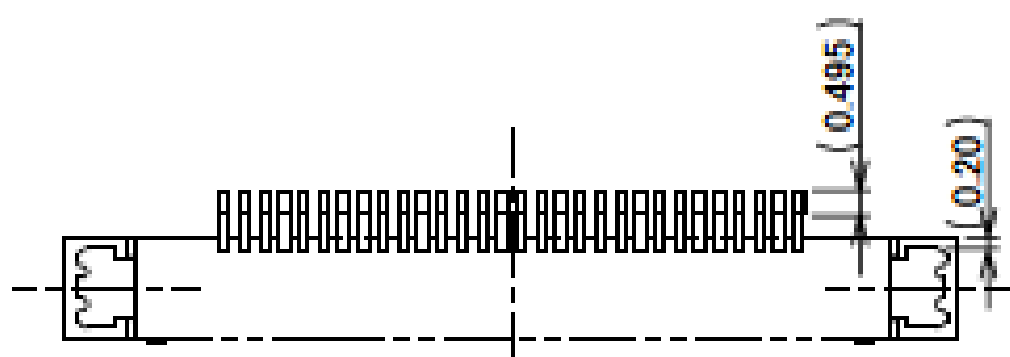
Rev.31

Receptacle Assembly

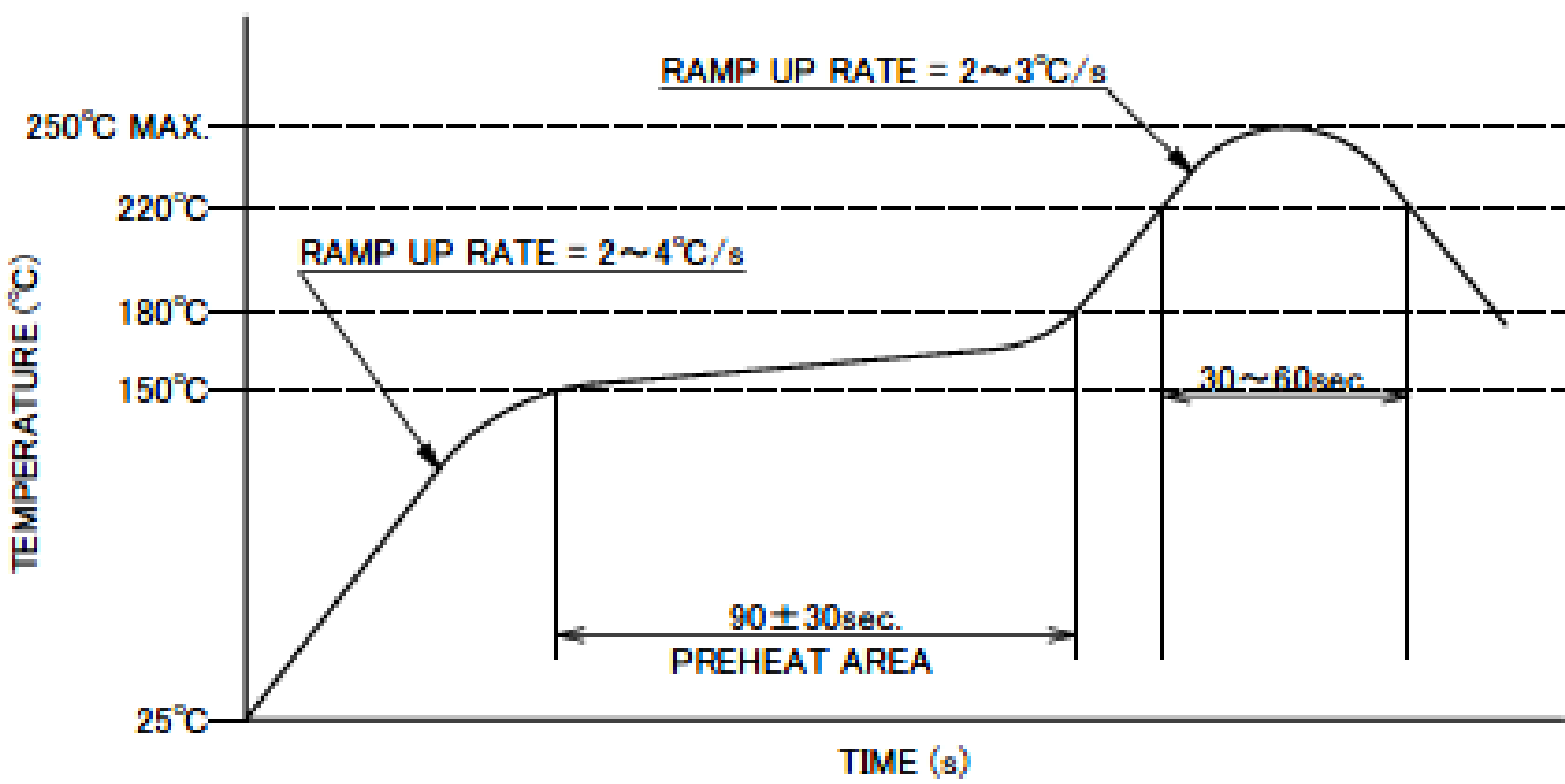
PART NO.	POS.	A	D
20374-R10E-31	10	3.60	7.20
20374-R14E-31	14	5.20	8.80
20374-R20E-31	20	7.60	11.20
20374-R30E-31	30	11.60	15.20
20374-R32E-31	32	12.40	16.00
20374-R35E-31	35	13.60	17.20
20374-R40E-31	40	15.60	19.20
20374-R50E-31	50	19.60	23.20



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



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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

Rev.31

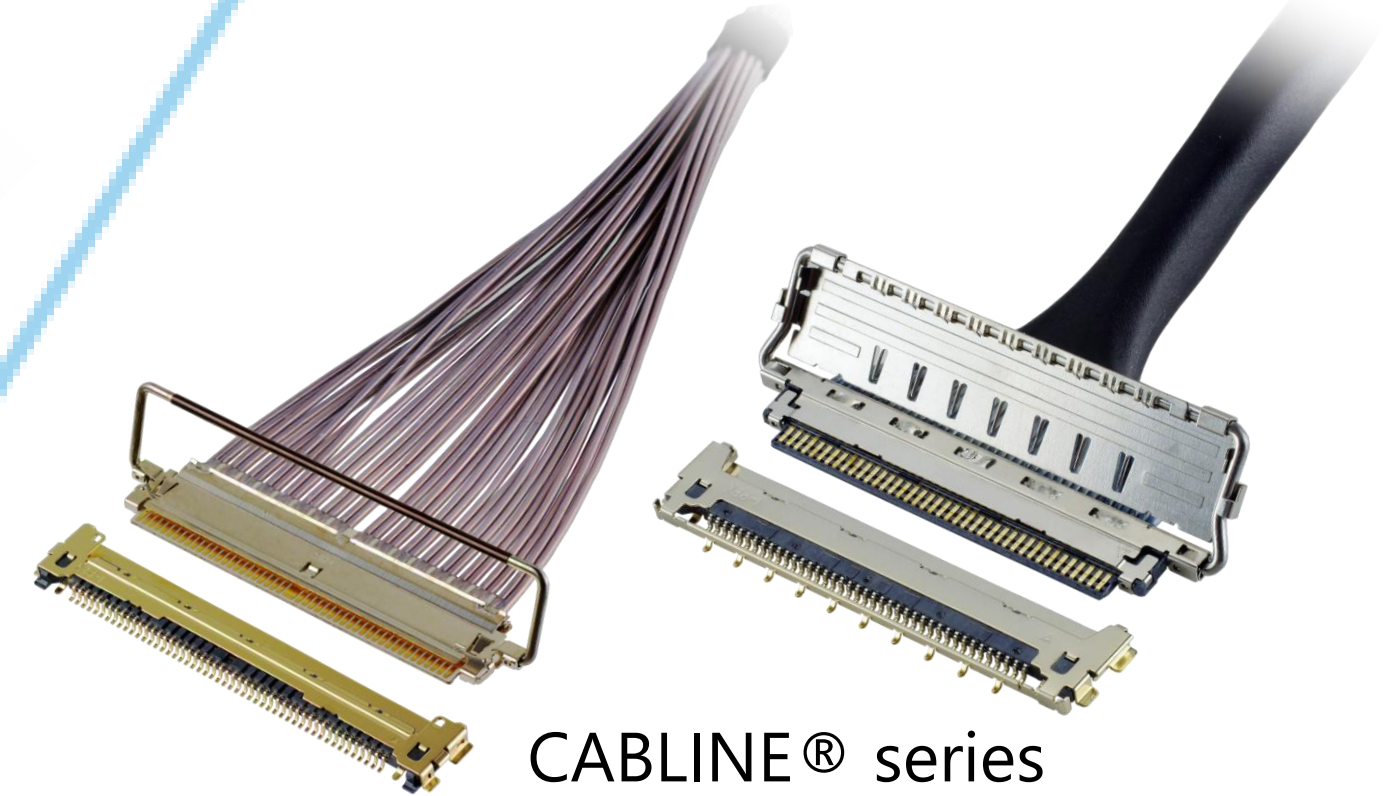
ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 42 , 40 , 36 DISCRETE WIRE : AWG# 36 , 34
RATING VOLTAGE	100V AC (PER CONTACT PIN) ※THIS IS THE RATED VOLTAGE OF THE CONNECTOR. PLEASE NOTE THAT THE RATED VOLTAGE MAY VARY IN THE HARNESS DEPENDING ON THE CABLES USED.
RATING AMPERAGE (FOR CONTACT)	0.24A 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 ※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.(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***

Rev.29

Custom Connectors Available

RF Connectors

MHF® series



CABLINE® series

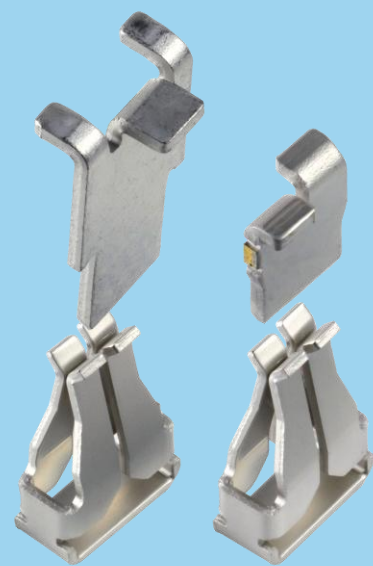


Micro-Coaxial/Twinaxial Connectors



Wire-to-Board Connectors/ Terminals

AP series



ISH® series



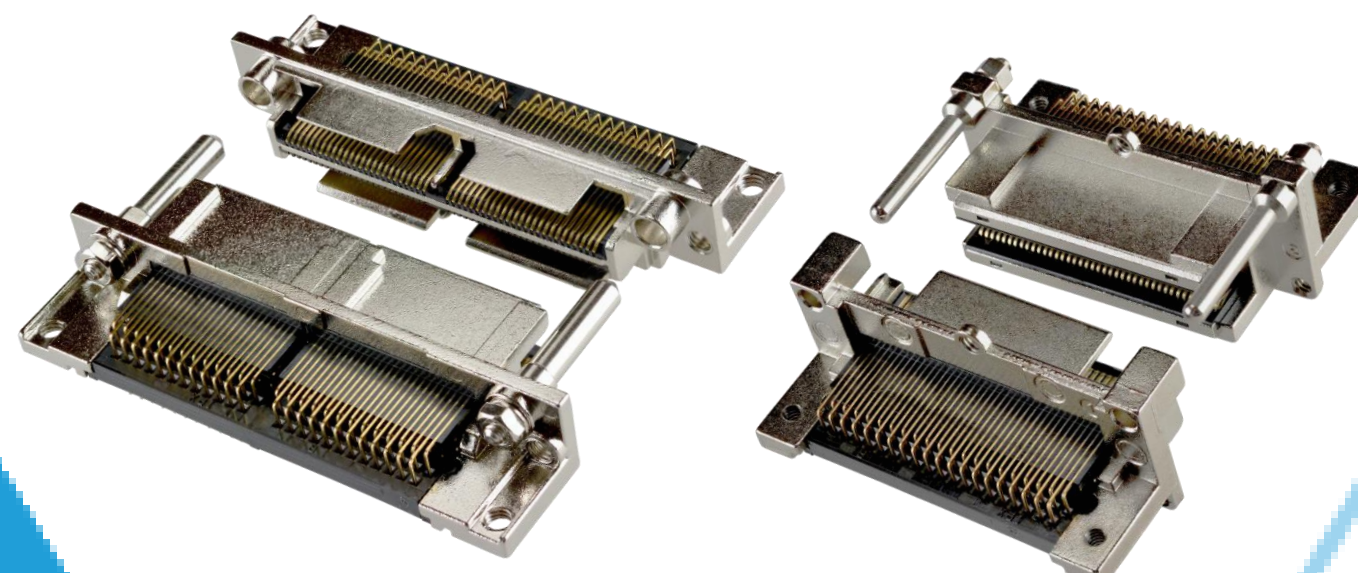
NOVASTACK® series



Board-to-Board Connectors



I/O Connectors



MINIDOCK™ series

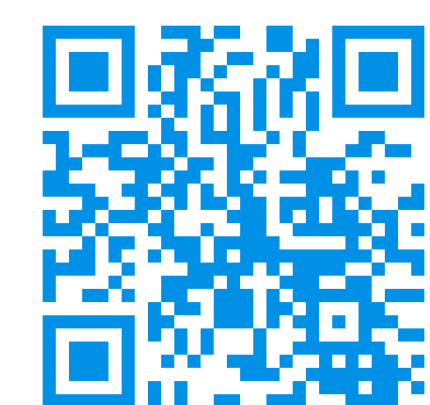
MINIFLEX® series EVAFLEX® series



FPC/FFC Connectors



Inquiry



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