

CABLINE®-SS

高速伝送対応(16Gbps/Lane)、小スペース高い堅牢性、最大(AWG#34)
ケーブル結線可、0.4 mmピッチ、ライトアングル縦嵌合タイプ細線同軸コネクタ

Product Specifications:

Mating type		Right angle vertical
Board Pitch (mm)		0.4
Wiping Length (mm)		0.3
Mated size (mm)	Height	1.85 Max
	Width	5.8 + (0.4*?p)
	Depth	3.0
Pin Counts	Range	Up to 50
	Available	10, 14, 20, 30, 32, 35, 40, 50

Applicable Cable Size:

Maximum O.D. (mm)	0.4
Micro-Coaxial for Signal (AWG)	45 ohm : #38 or smaller 50 ohm : #40 or smaller
Twin Coaxial (AWG)	-
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)

*記載のない極数の対応状況についてはお問い合わせください。



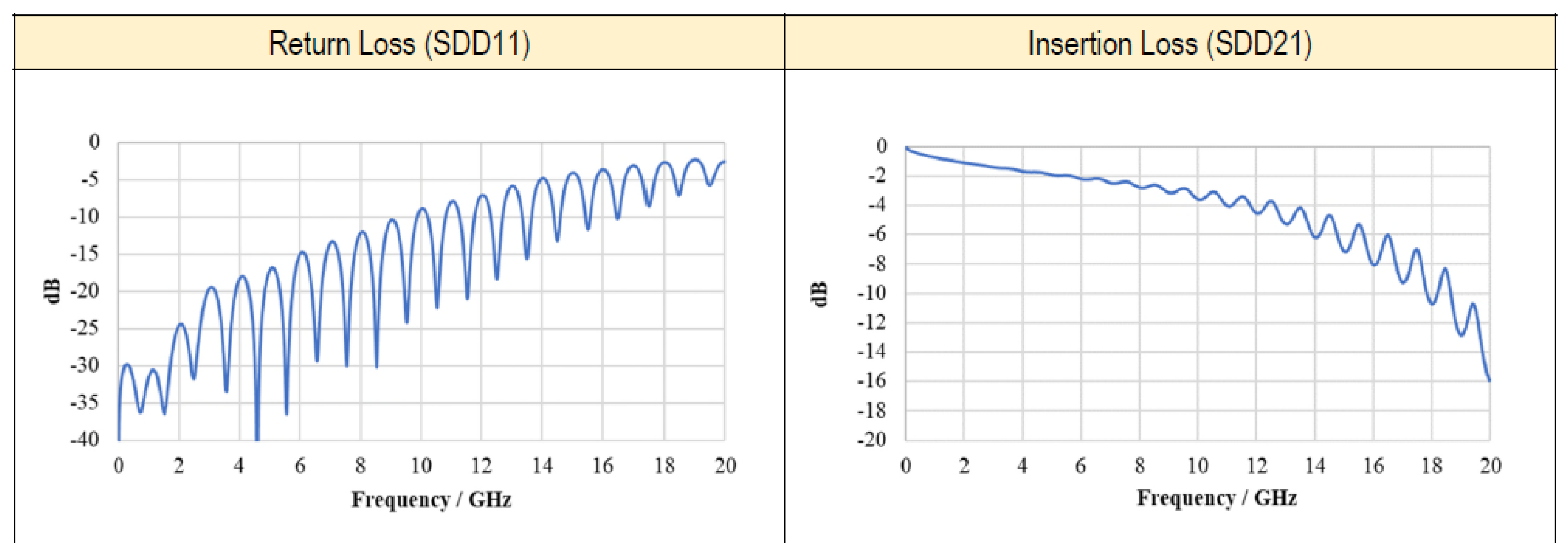
▶ 16Gbps/Laneの高速伝送内部接続に最適

Measurement results

Connector: CABLINE-SS 40P

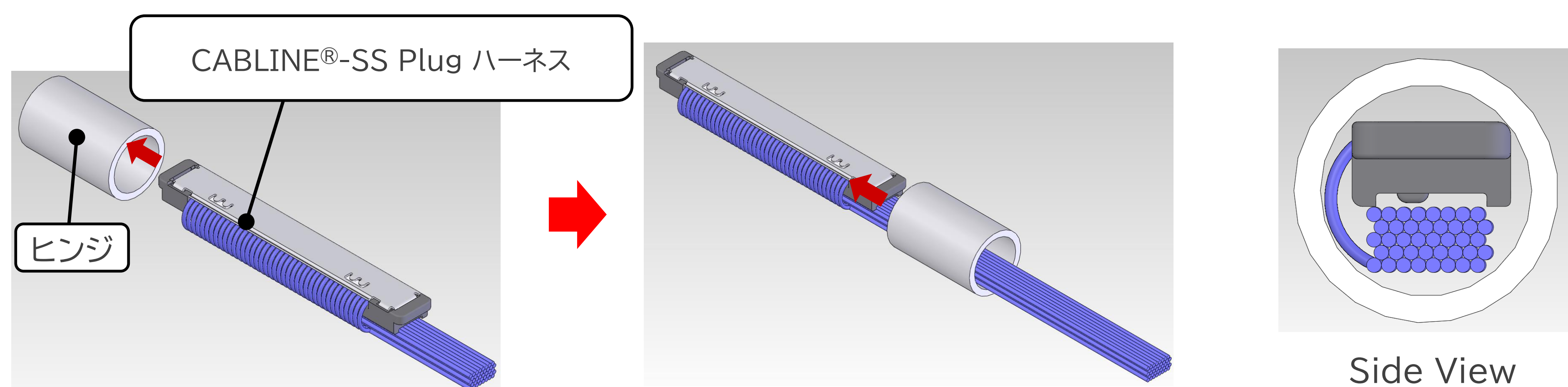
Cable: Micro-coaxial cable
AWG #40, 45ohm, Length : 100 mm

Pin Assignment: GSSGSSG

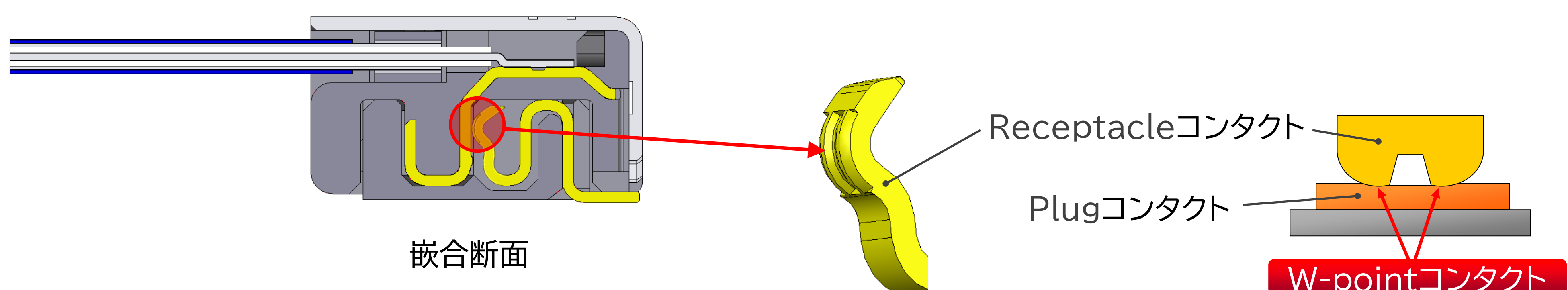


▶ 小径ヒンジを通す事を可能にしたスリムなデザイン、最大径のパワー用ケーブル AWG#34が結線可能

ハーネス加工後に小径ヒンジを通す事が可能



▶ I-PEX独自のW-Point による信頼性の高いコンタクト構造

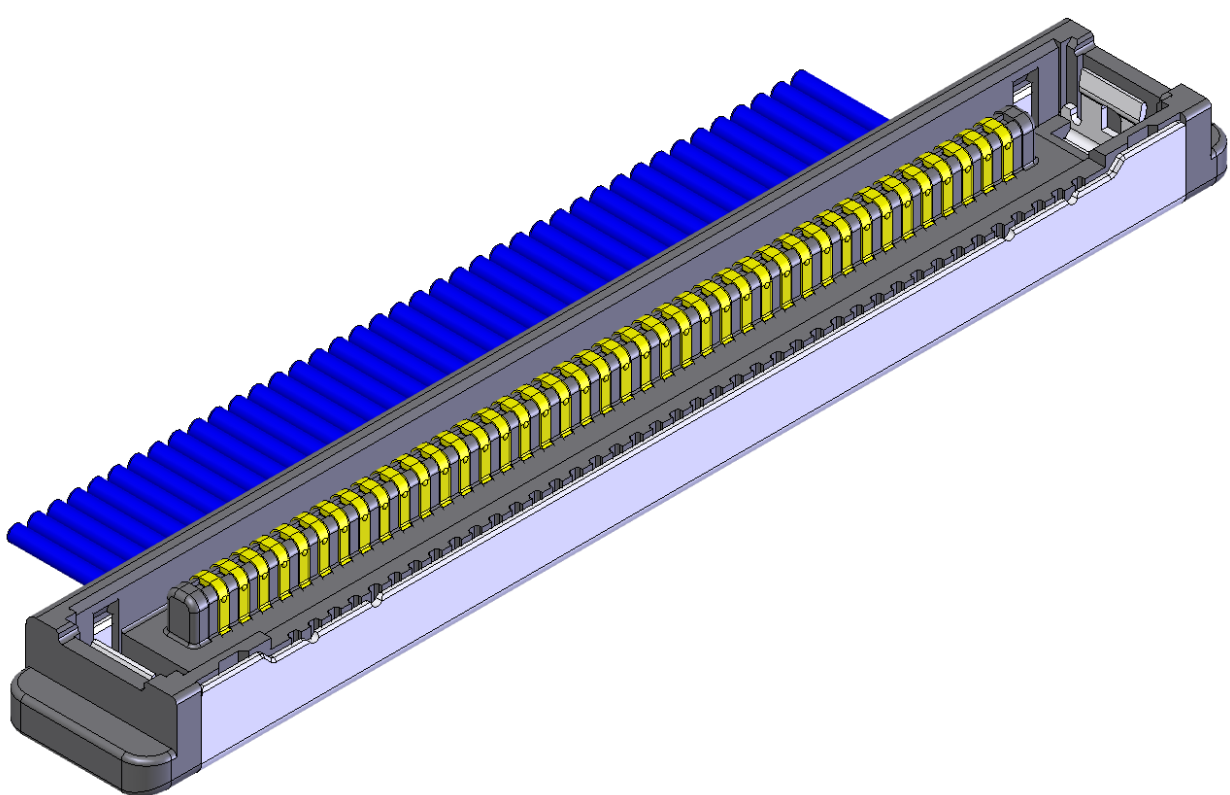


W-pointコンタクト技術は、劣悪な接点環境下でもPlugとReceptacleコンタクト間の良好な接触抵抗値を維持が可能です。
一般的な、単接点方式と比較して、より安定的接触抵抗を維持可能です。

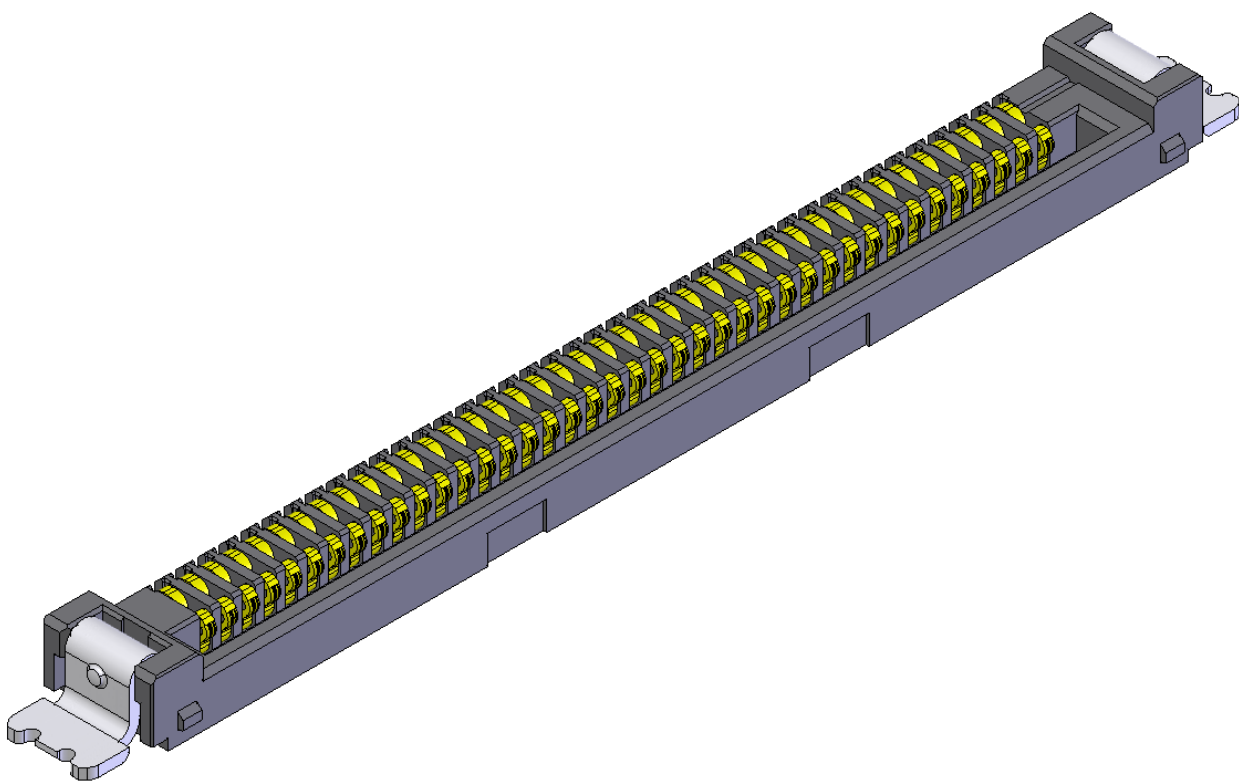
Component Parts Details

Component Parts

Connector parts

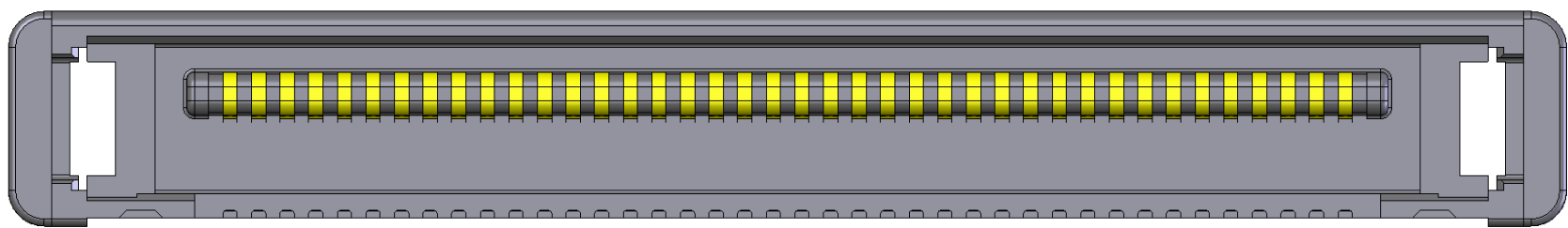


PLUG



RECEPTACLE

Plug parts



PLUG HOUSING ASSEMBLY

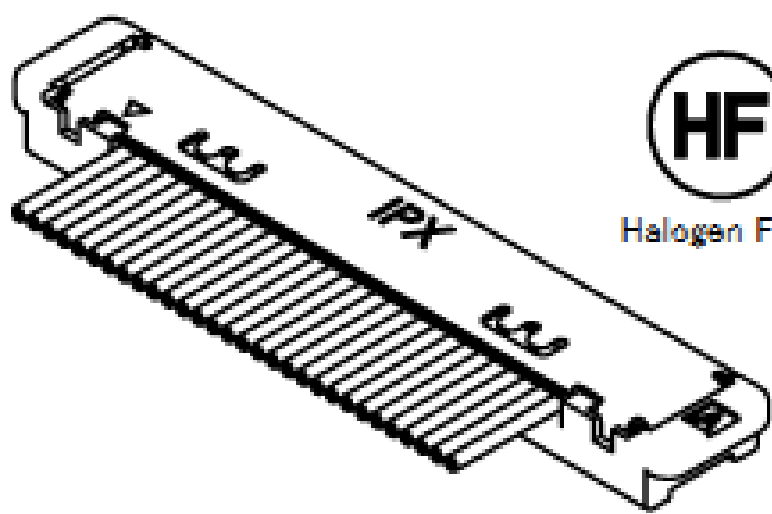


PLUG METAL COVER

Plug for Cable Assembly

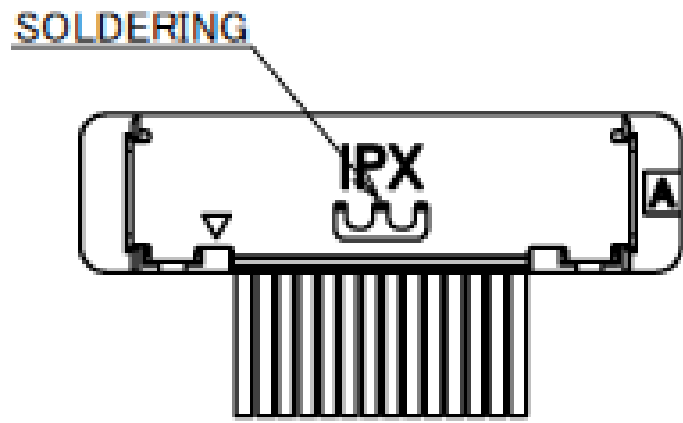
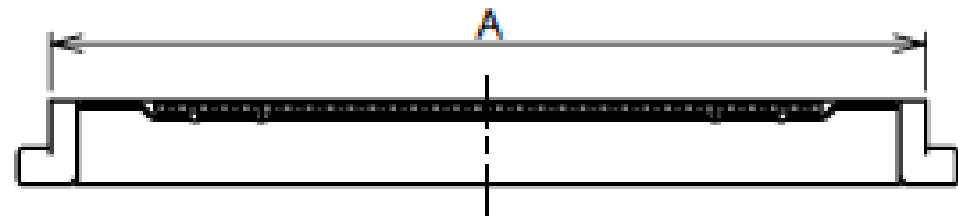
Recommended P/N		20380-R**T-06 (10P / 14P / 20P / 30P / 32P / 35P)	20380-R**T-16 (40P / 50P)
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PART NO.	POS.	MATING RECEPTACLE P/N	A	B	C
20380-R10T-06	10	20374-R10E-31	8.6	9.8	3.6
20380-R14T-06	14	20374-R14E-31	10.2	11.4	5.2
20380-R20T-06	20	20374-R20E-31	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

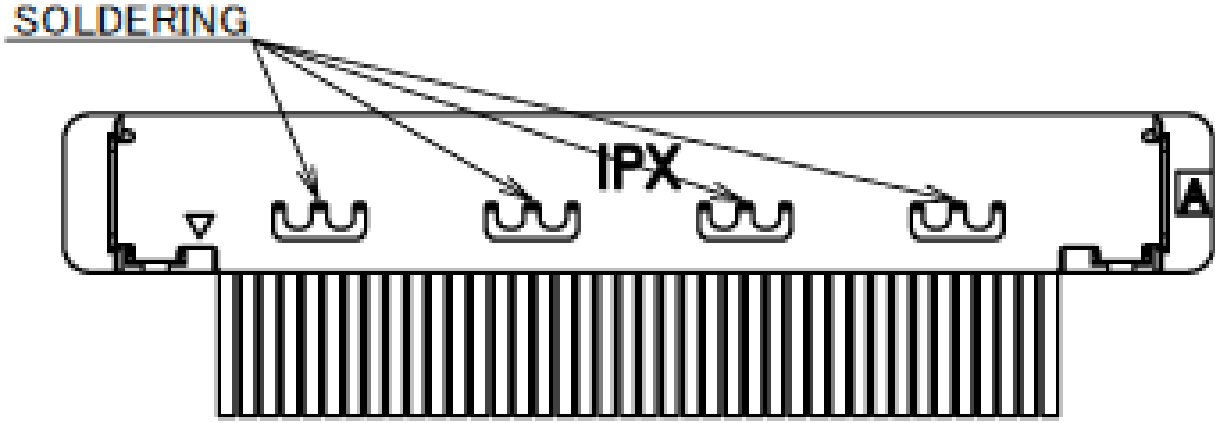


Halogen Free

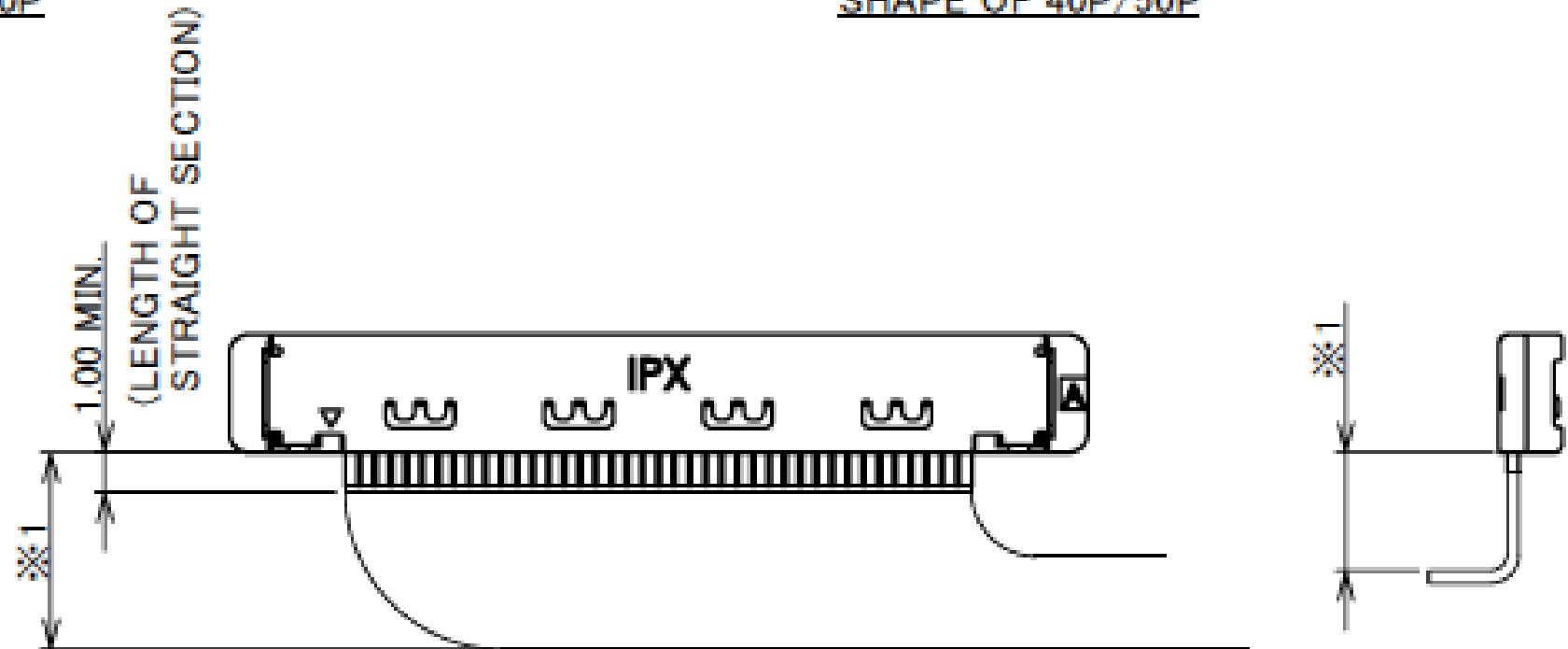
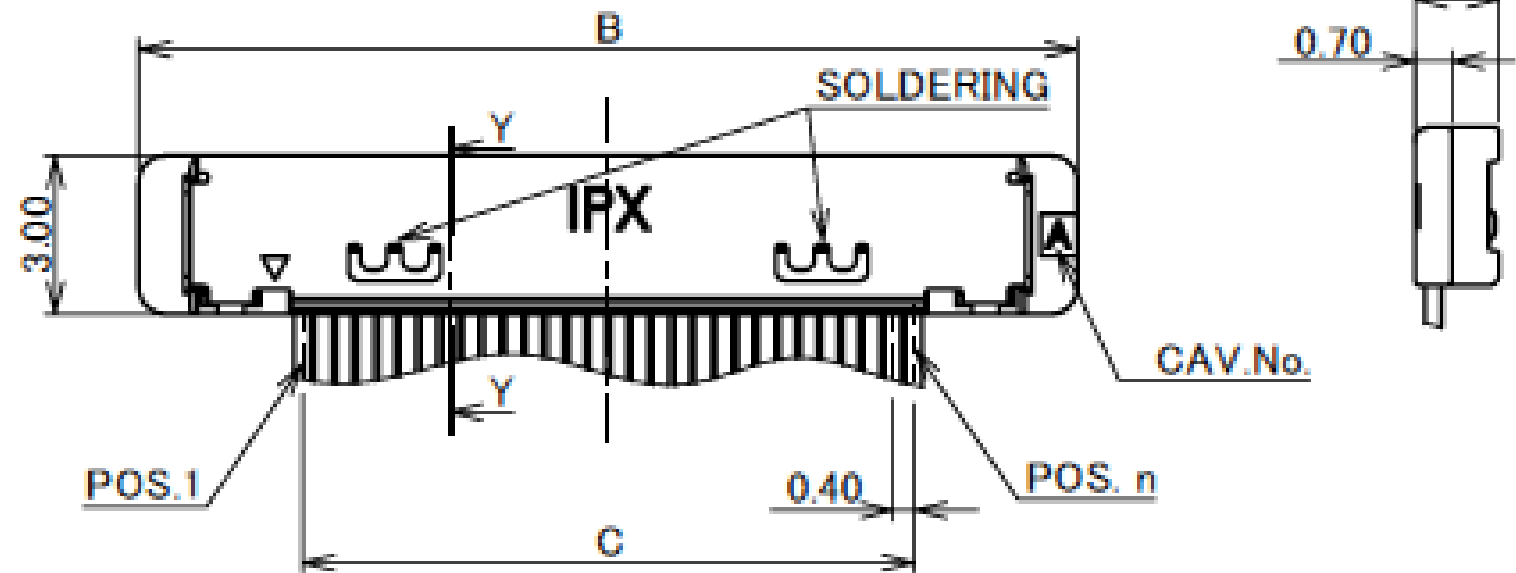
RoHS Compliant



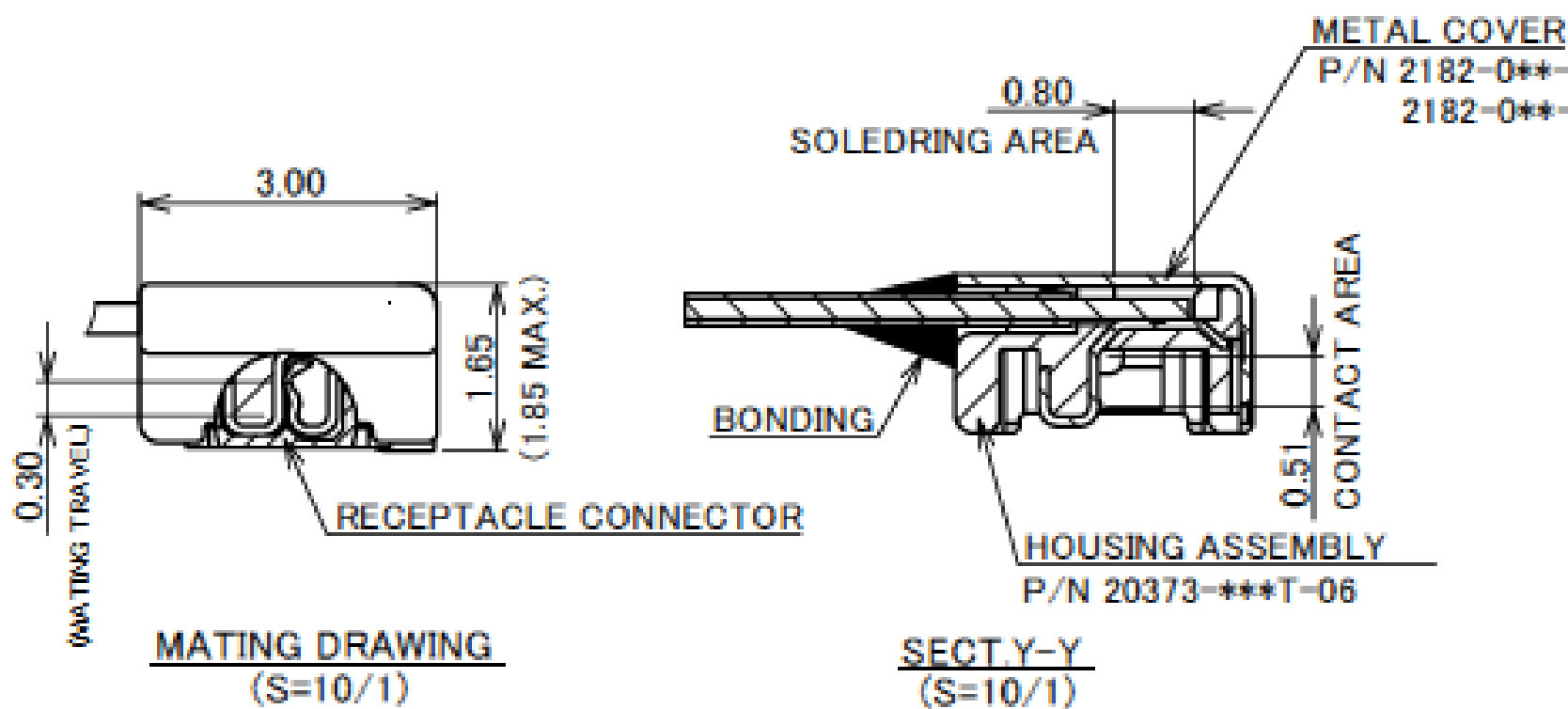
SHAPE OF 10P/14P/20P



SHAPE OF 40P/50P



REFERENCE CABLE BENDING DIMENSIONS



※1 : THE BEND DIMENSIONS MAY VARY BASED ON THE SIZE AND QUANTITY OF CABLES.
PLEASE CONFIRM THE MINIMUM BENDING RADIUS WITH I-PEX OR THE HARNESS MANUFACTURER.

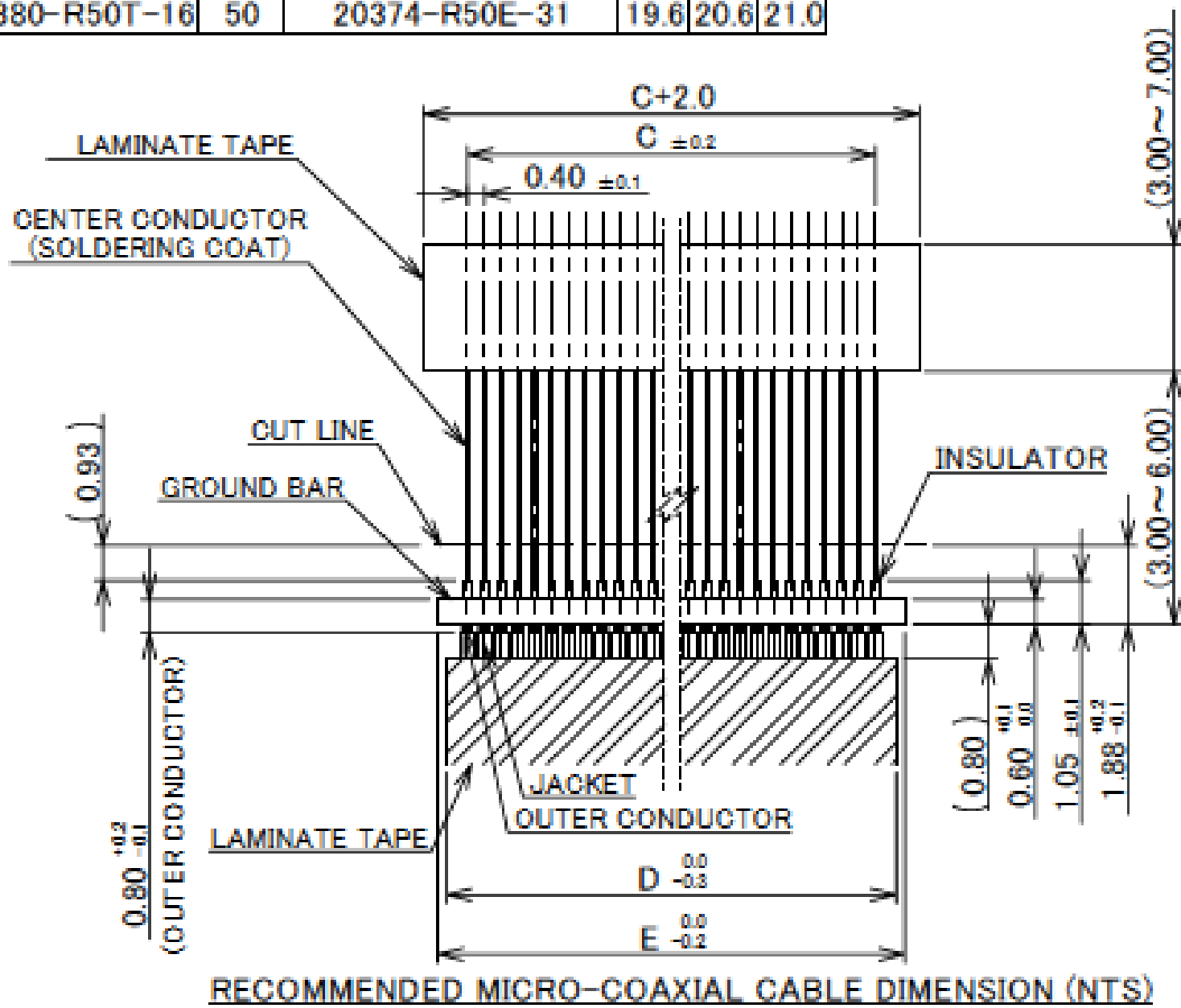
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
3	METAL COVER	PHOSPHOR BRONZE	Sn REFLOW 1.00 μ m MIN.
2	CONTACT	PHOSPHOR BRONZE	CONTACT AREA: Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDERING AREA: Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK

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

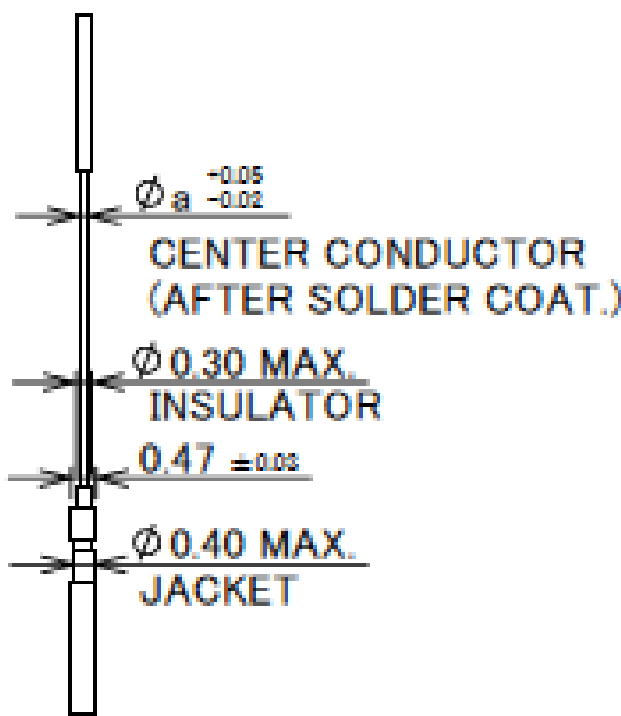
Rev.28

Recommended P/N		20380-R**T-06 (10P / 14P / 20P / 30P / 32P / 35P)	20380-R**T-16 (40P / 50P)
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PART NO.	POS.	MATING RECEPTACLE P/N	C	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



RECOMMENDED MICRO-COAXIAL CABLE DIMENSION (NTS)



MICRO-COAXIAL CABLE
(AWG #42,40,36)

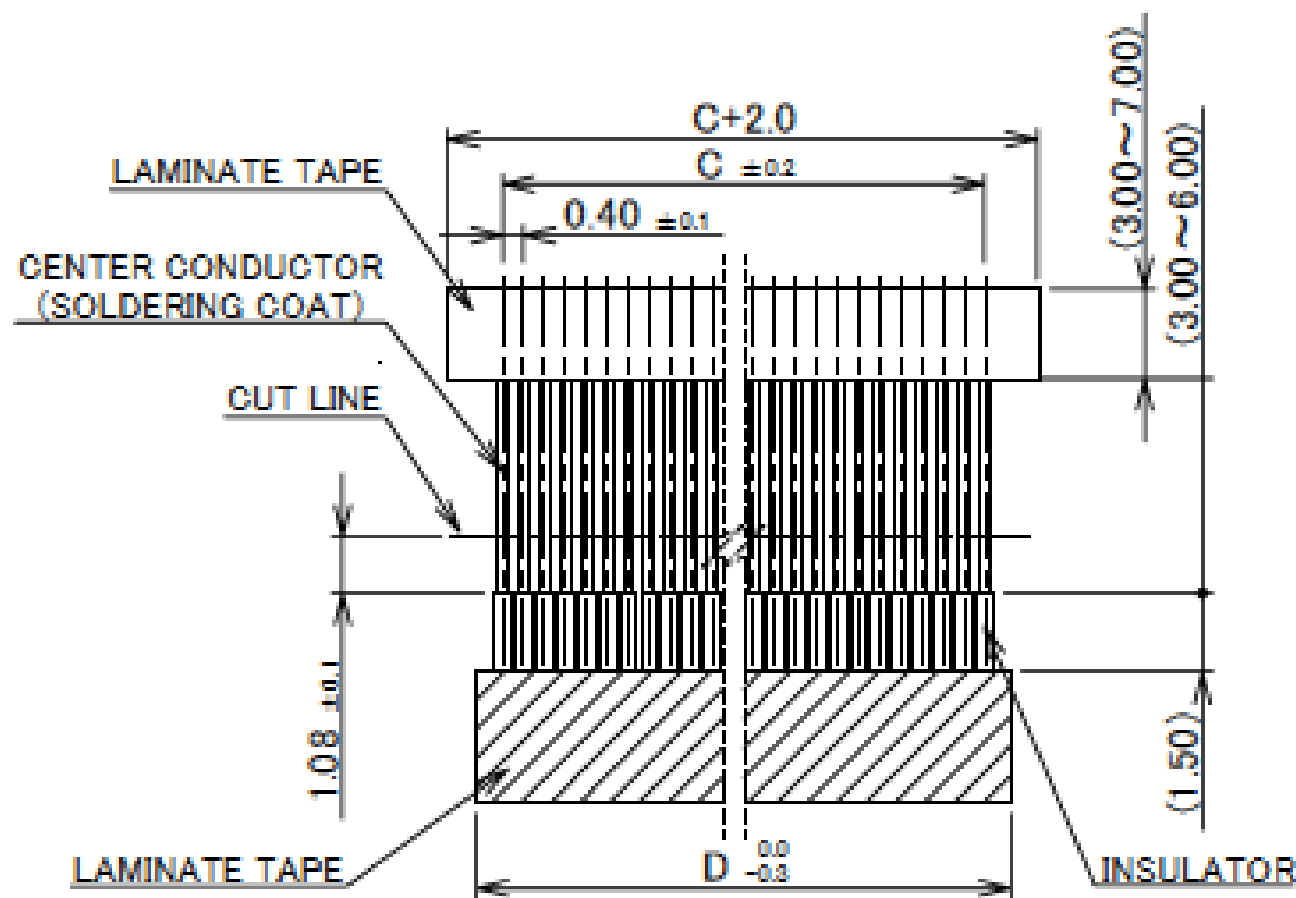
CHARACTERISTIC IMPEDANCE MACHING MICRO-COAXIAL CABLE

	a
#40	ϕ 0.09
#42	ϕ 0.075

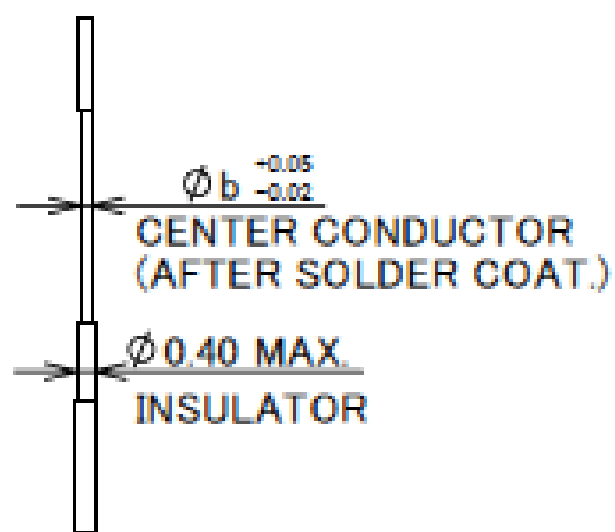
CHARACTERISTIC IMPEDANCE UN-MACHING MICRO-COAXIAL CABLE

	a
#36	ϕ 0.15

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



RECOMMENDED DISCRETE WIRE DIMENSION



DISCRETE WIRE
(AWG #36,34)

DISCRETE WIRE DIMENSION

	b
#34	ϕ 0.192
#36	ϕ 0.15

Rev.28

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

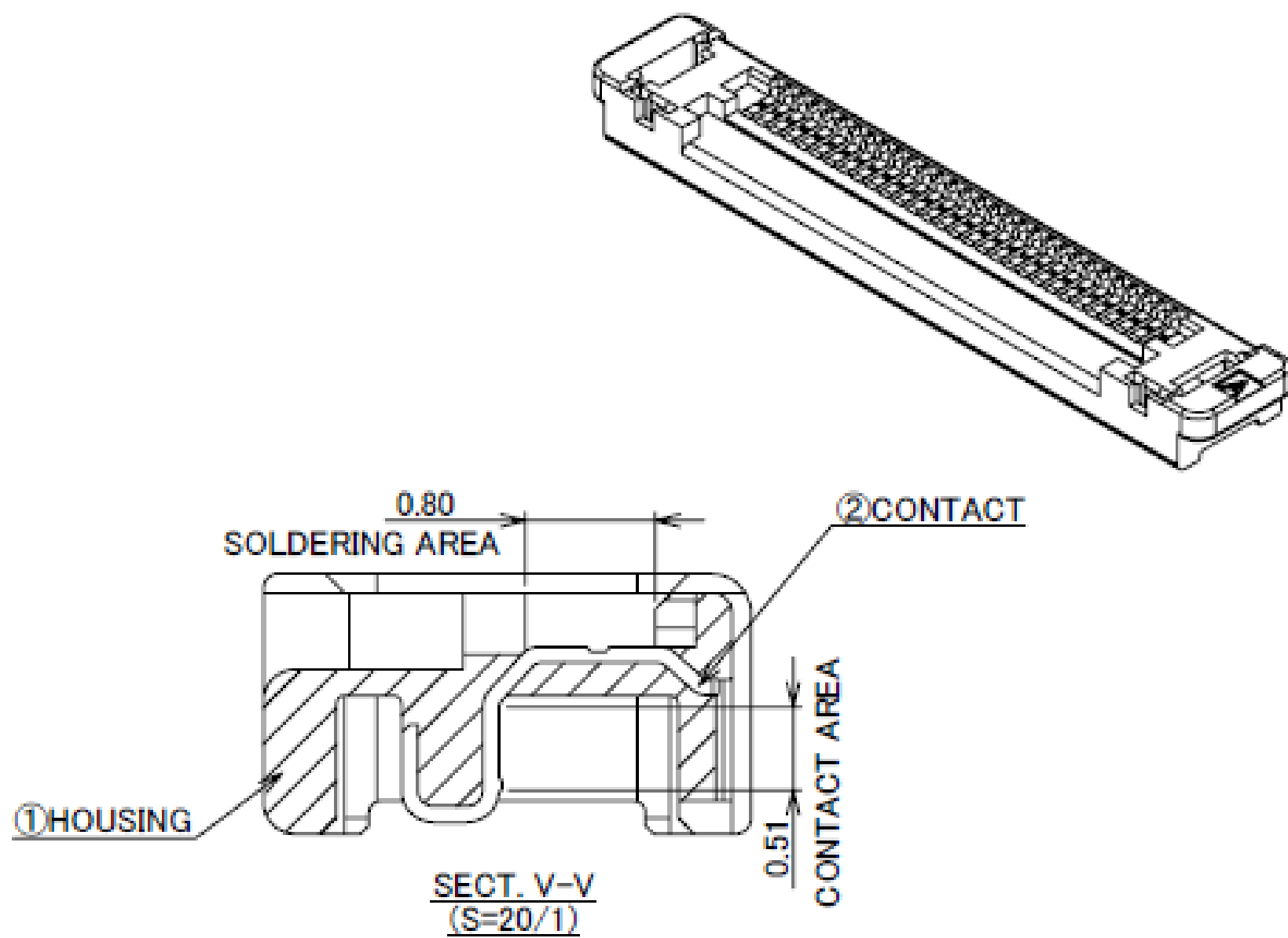
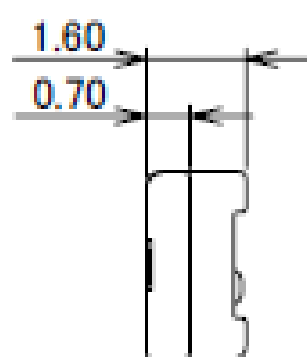
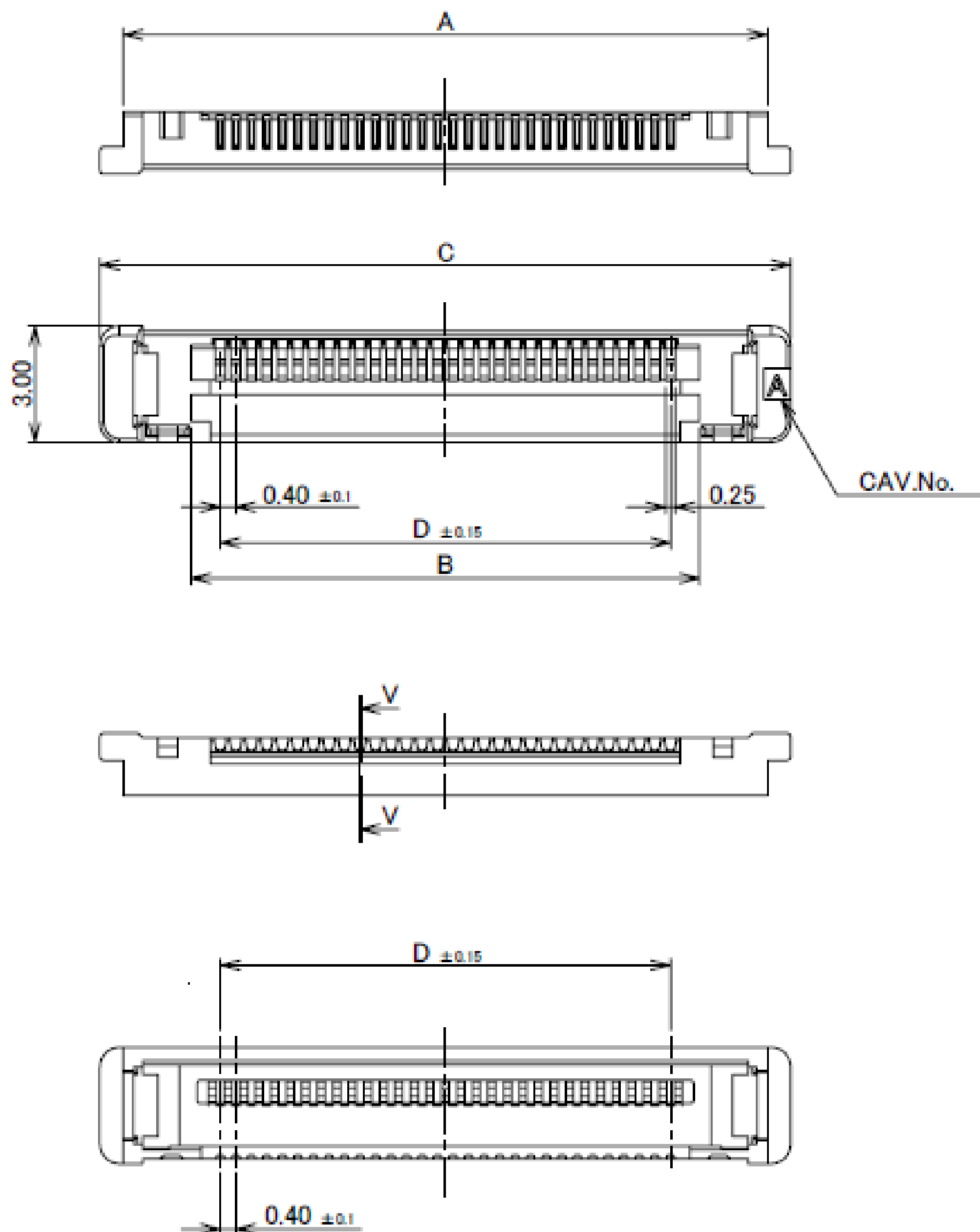
FOR AWG #34,#36,#40,#42



Halogen Free



RoHS Compliant

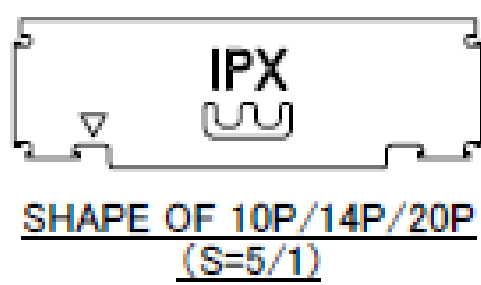
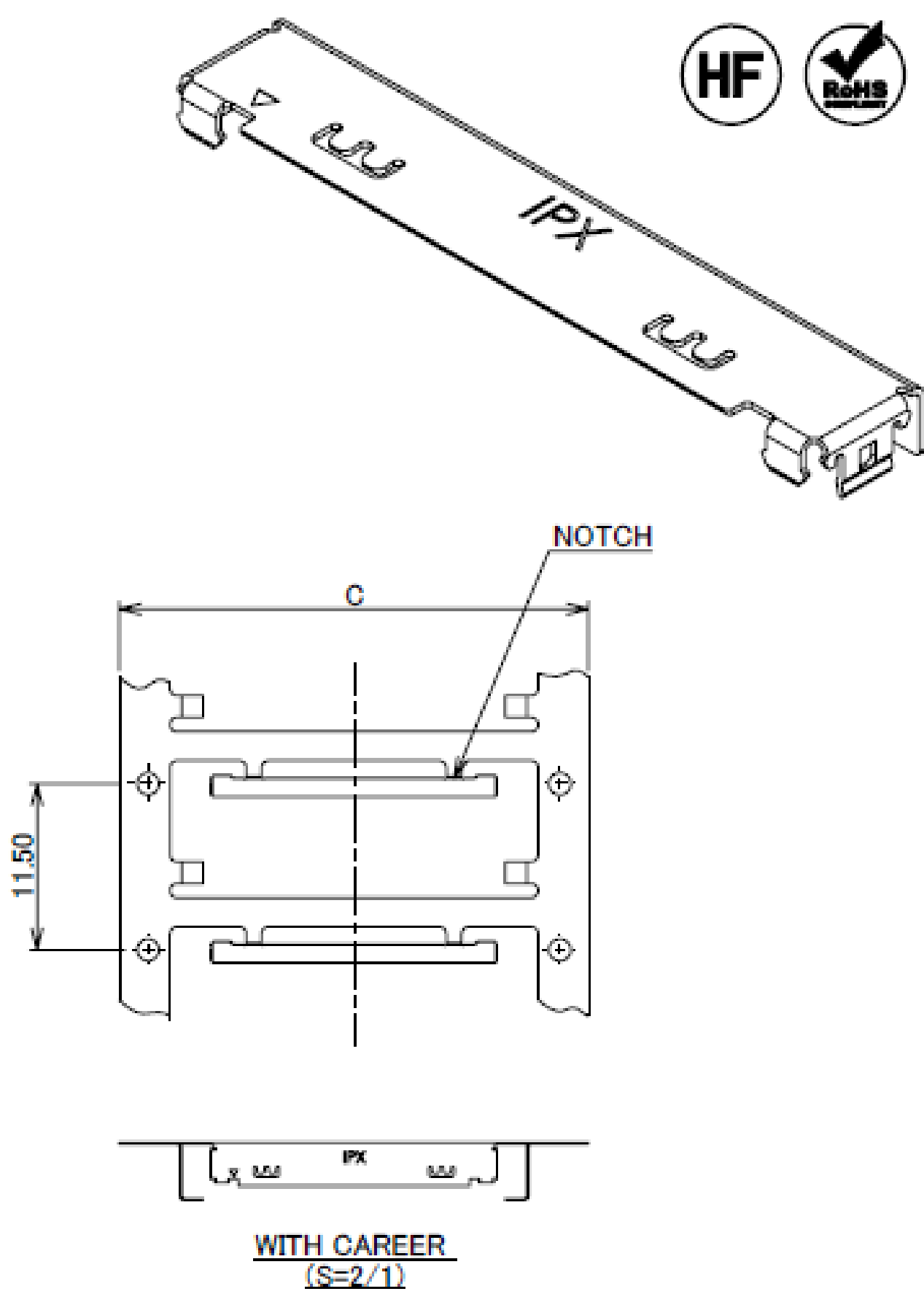
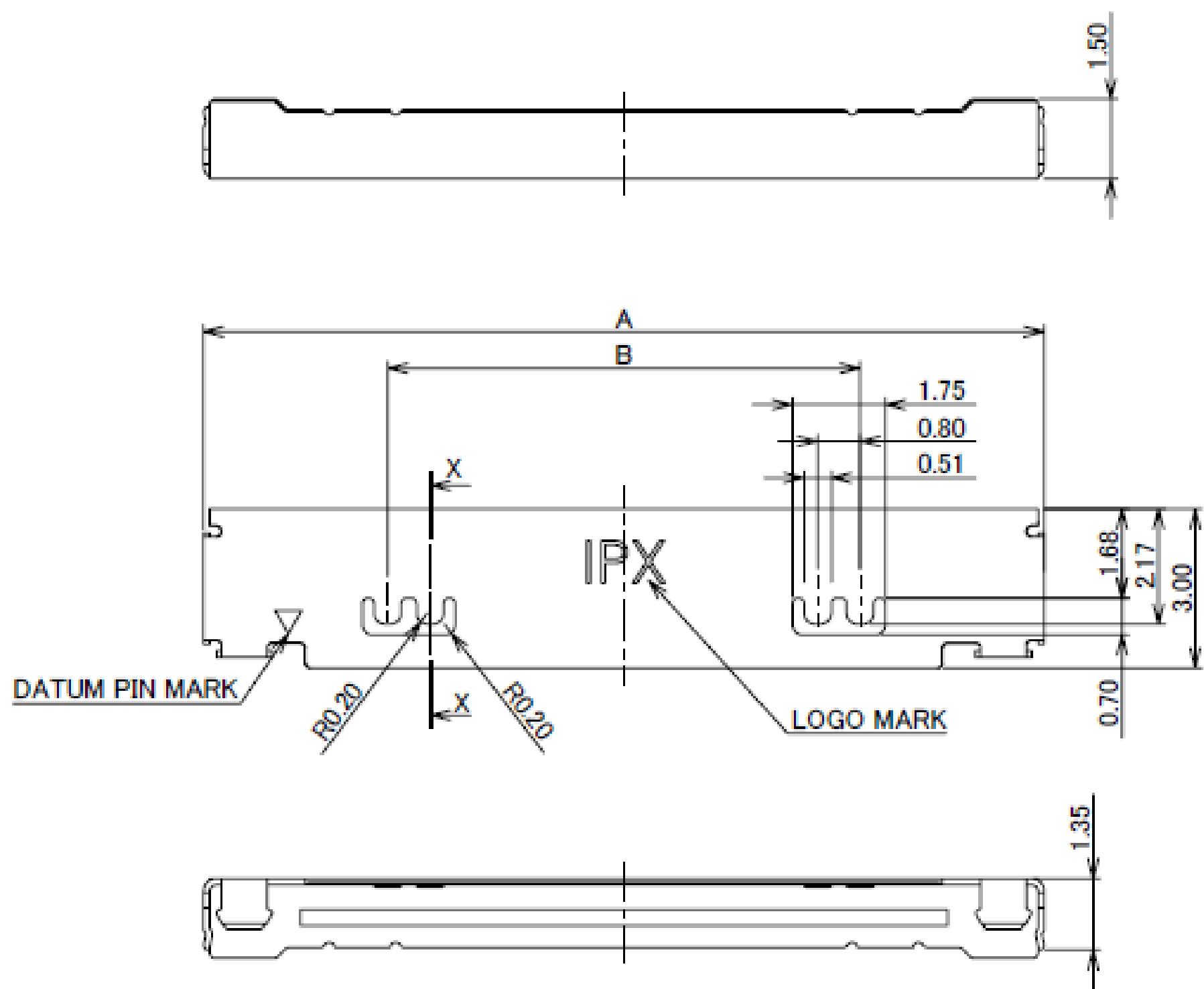


NOTES		
1.THIS PART IS ASSEMBLED WITH METAL COVER (P/N 2182-0**-03(10P,14P,20P,30P,32P,35P) or 2182-0**-04(40P,50P)) AFTER SOLDERED CABLE, AND IT BECOMES P/N 20380-R**T-06(10P,14P,20P,30P,32P,35P) or 20380-R**T-16(40P,50P)		
2	CONTACT	PHOSPHOR BRONZE
1	HOUSING	LCP (RED PHOSPHORUS IS NOT USED)
NO.	DISCRIPTION	MATERIAL
		FINISH , REMARKS
		CONTACT AREA: Au 0.1 μm MIN. OVER Ni 1.00 μm MIN. SOLDERING AREA: Au 0.1 μm MIN. OVER Ni 1.00 μm MIN.
		UL94V-0, BLACK

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		

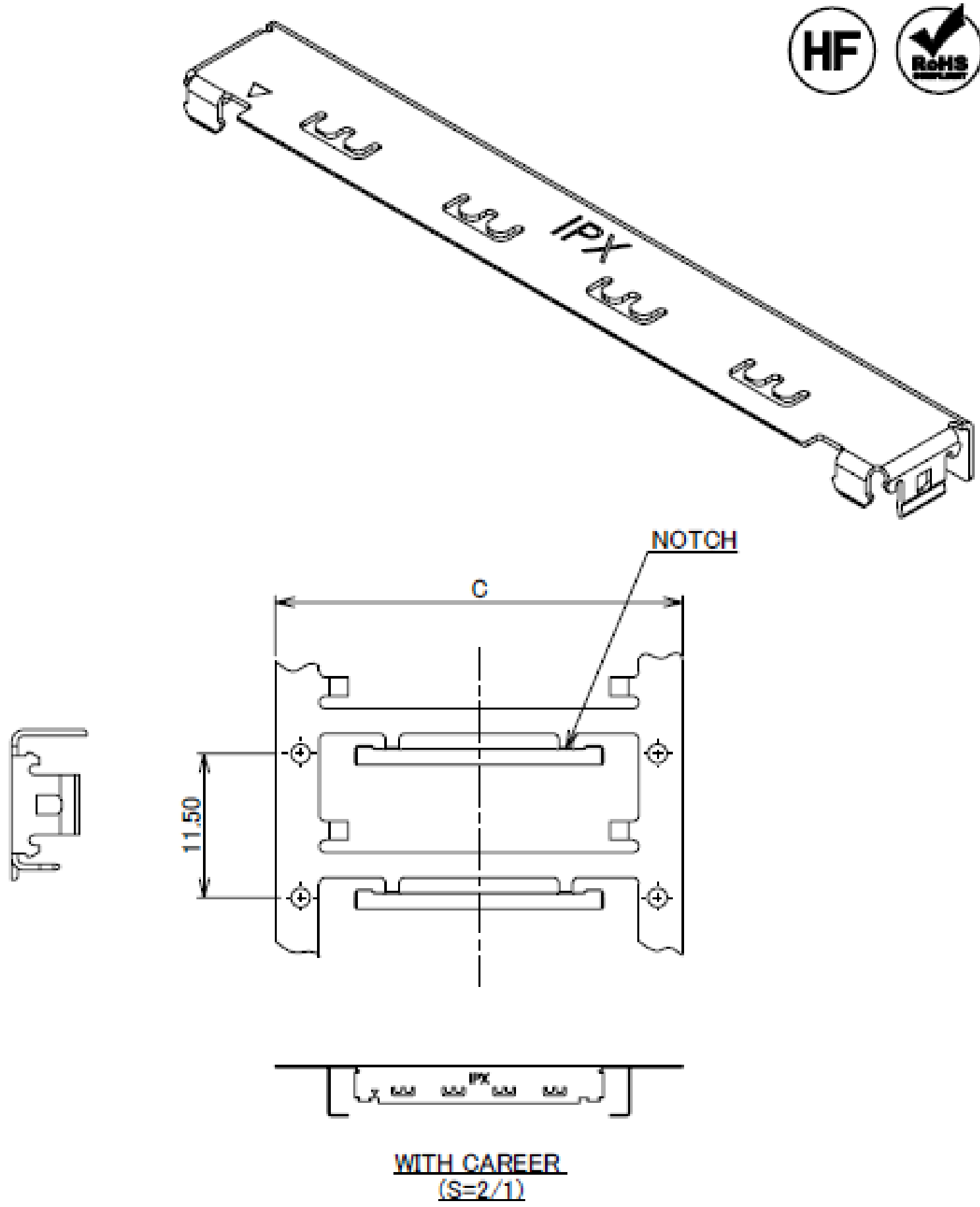
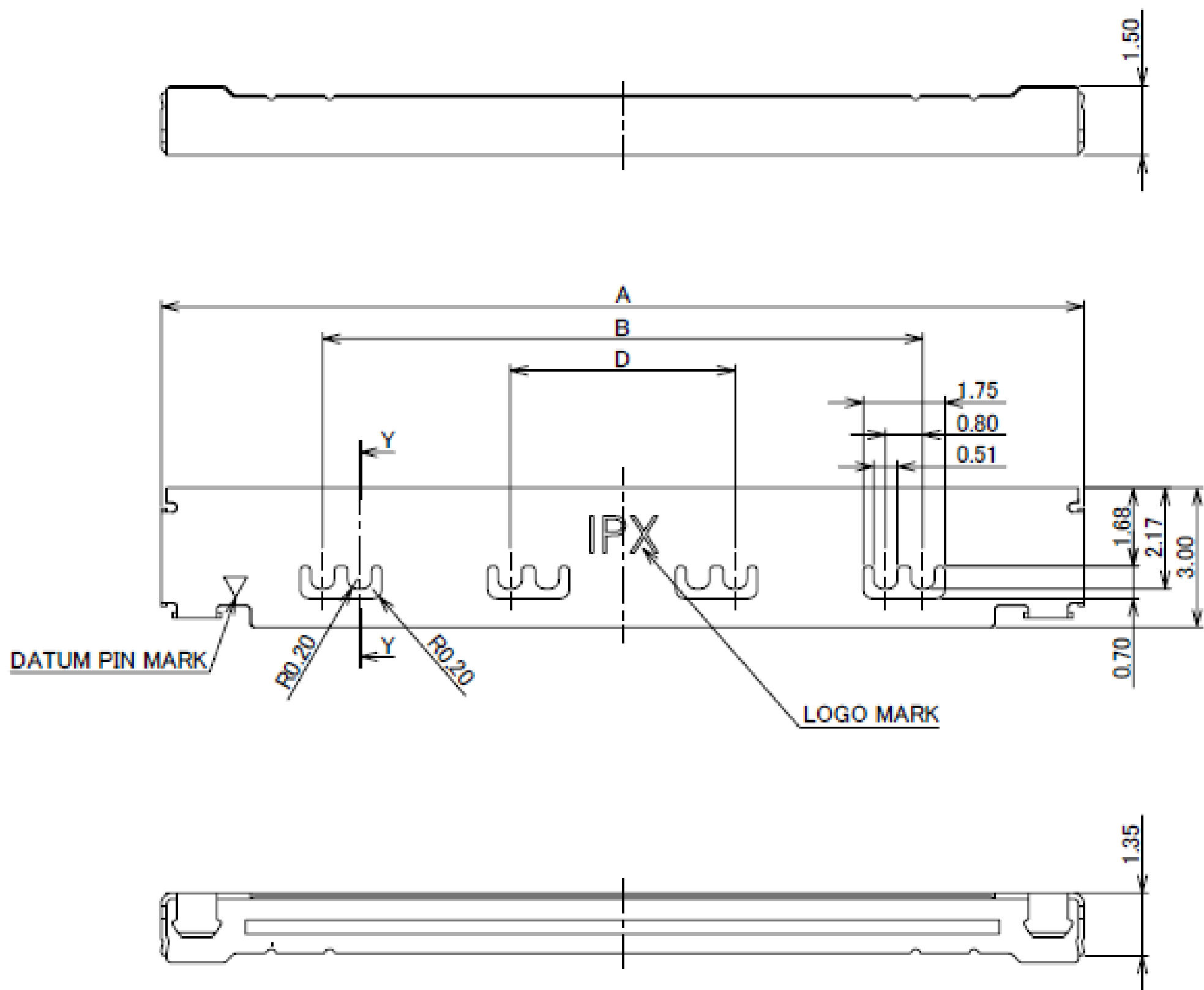


1	METAL COVER	PHOSPHOR BRONZE	Sn REFLOW 1.00 μm MIN.
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

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			

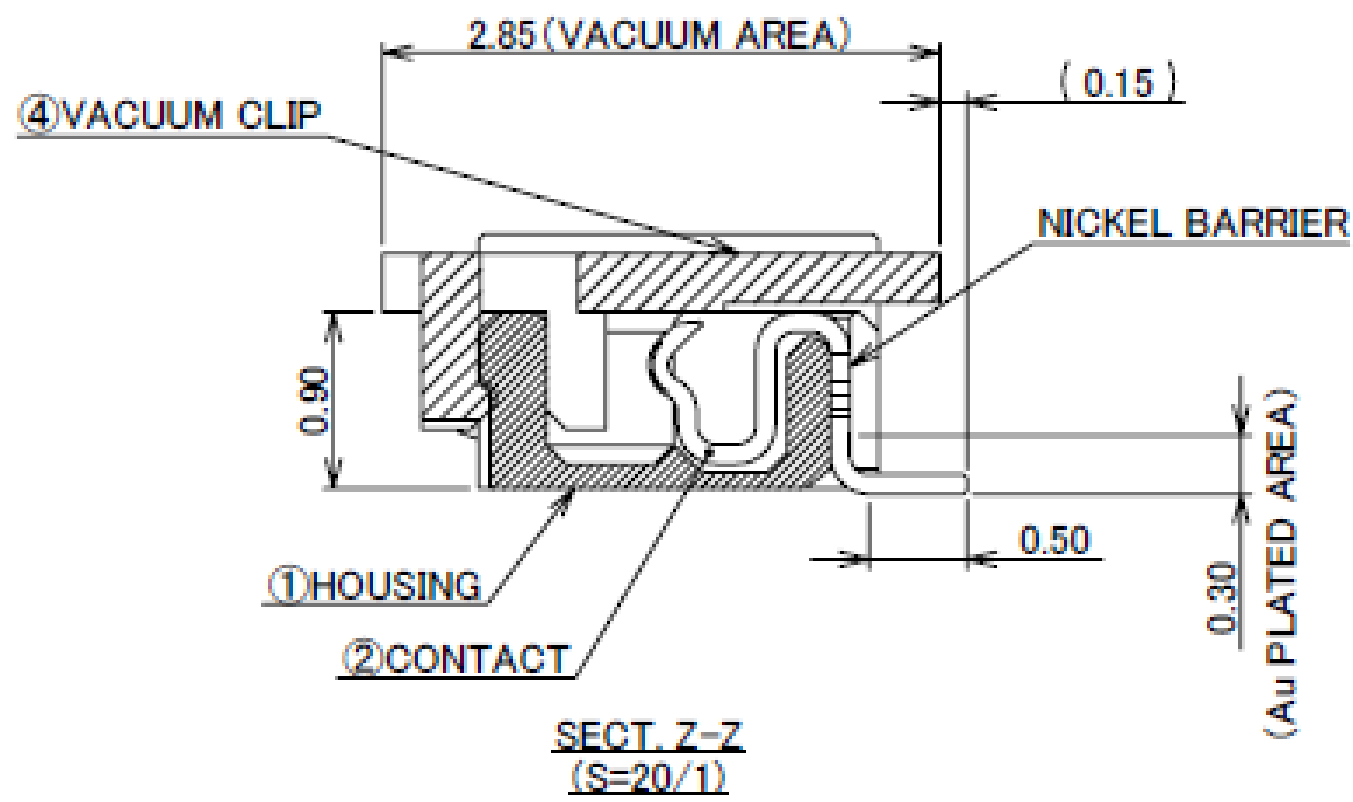
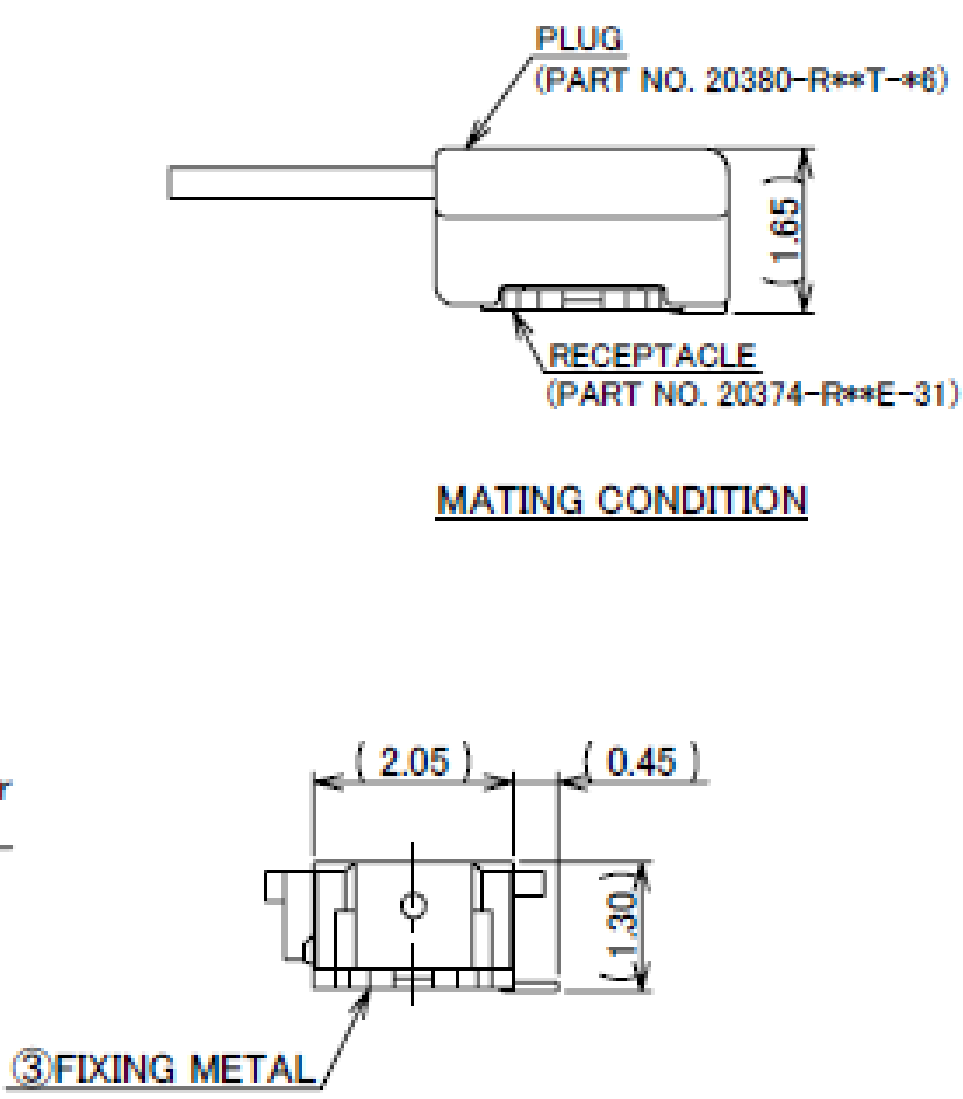
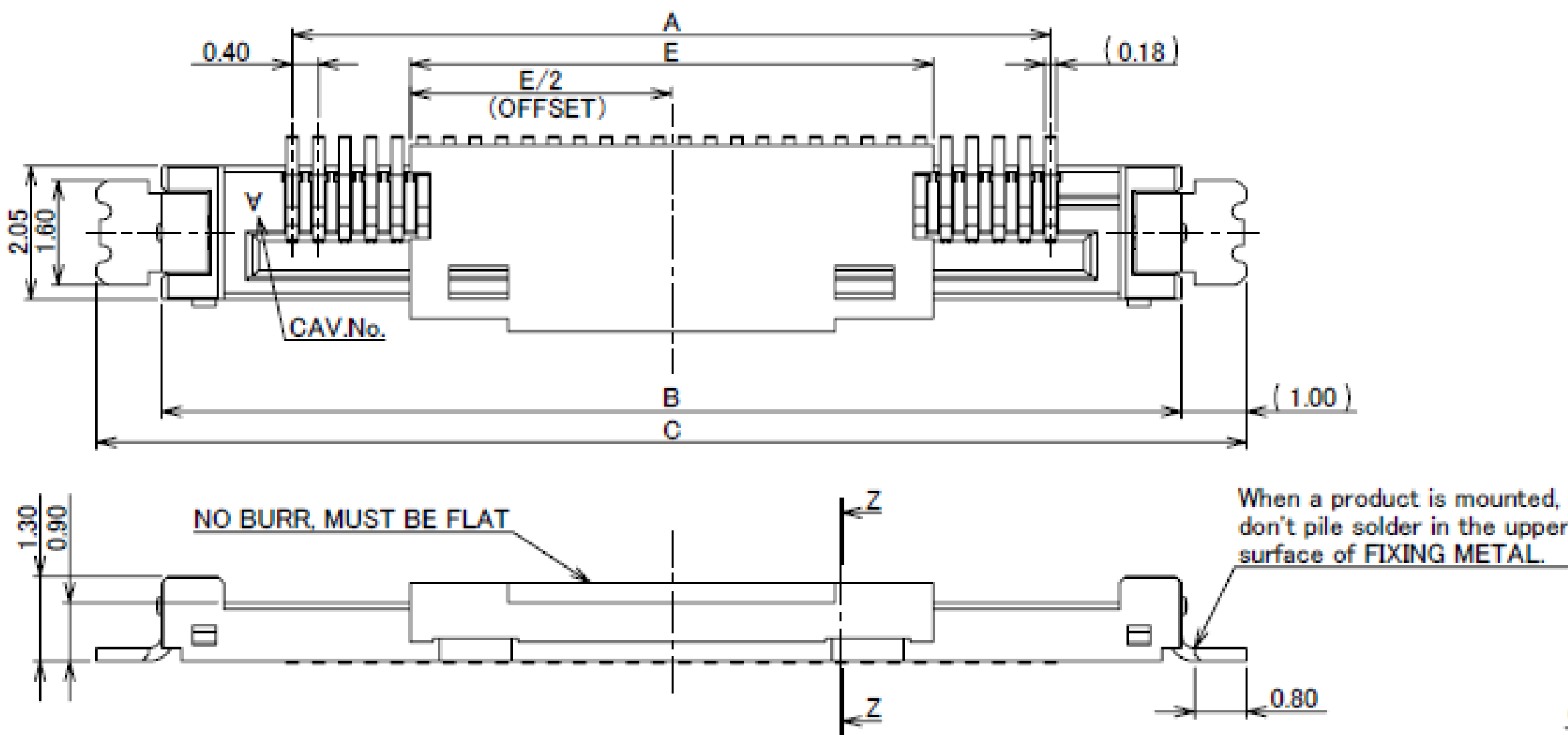


1	METAL COVER	PHOSPHOR BRONZE	Sn REFLOW 1.00 μ m MIN.
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

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	17.60	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

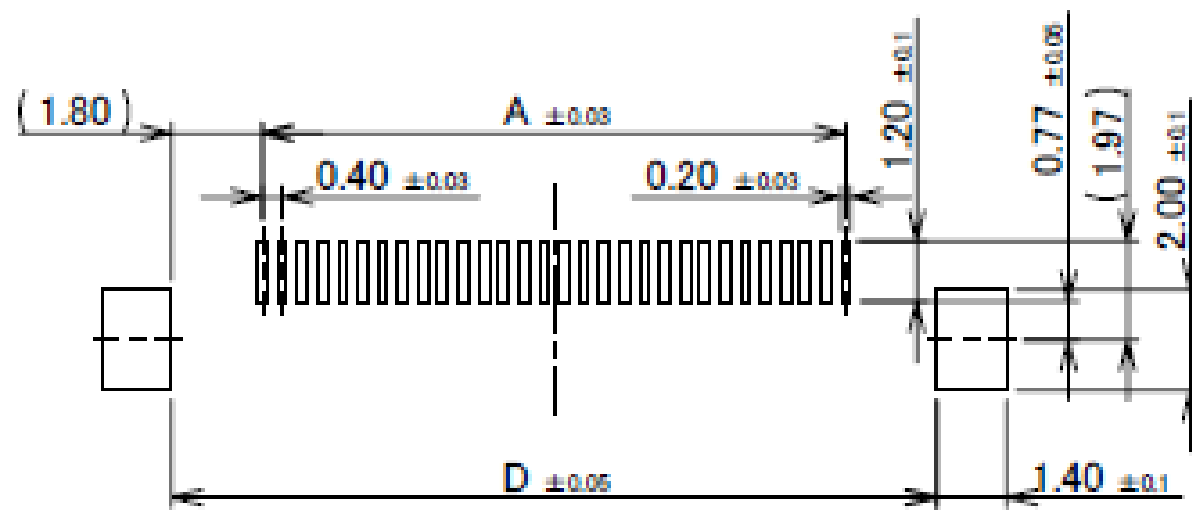


4	VACUUM CRIP	LCP	UL94V-0, BEIGE
3	FIXING METAL	PHOSPHOR BROZE	Sn/Cu(98/2) (LUSTER) 2.0 μ m MIN. OVER Ni 1.00 μ m MIN.
2	CONTACT	PHOSPHOR BROZE	CONTACT AREA: Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN.
1	HOUSING	LCP (RED PHOSPHORUS IS NOT USED)	SOLDERING AREA: Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.
NO.	DISCRIPTION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

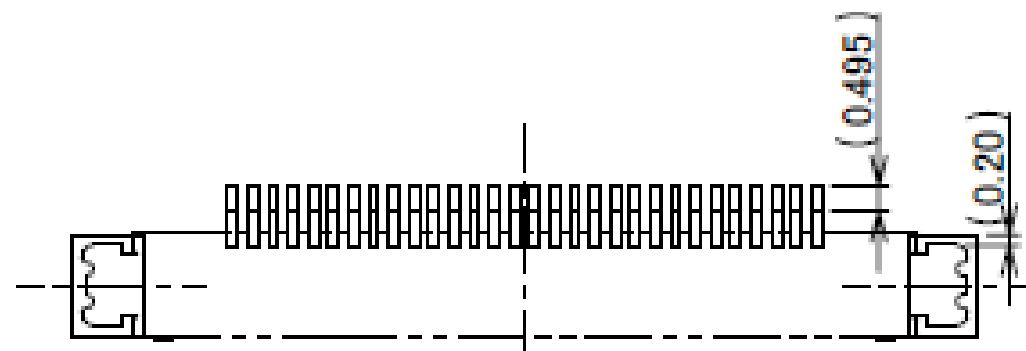
Rev.30

Receptacle Assembly

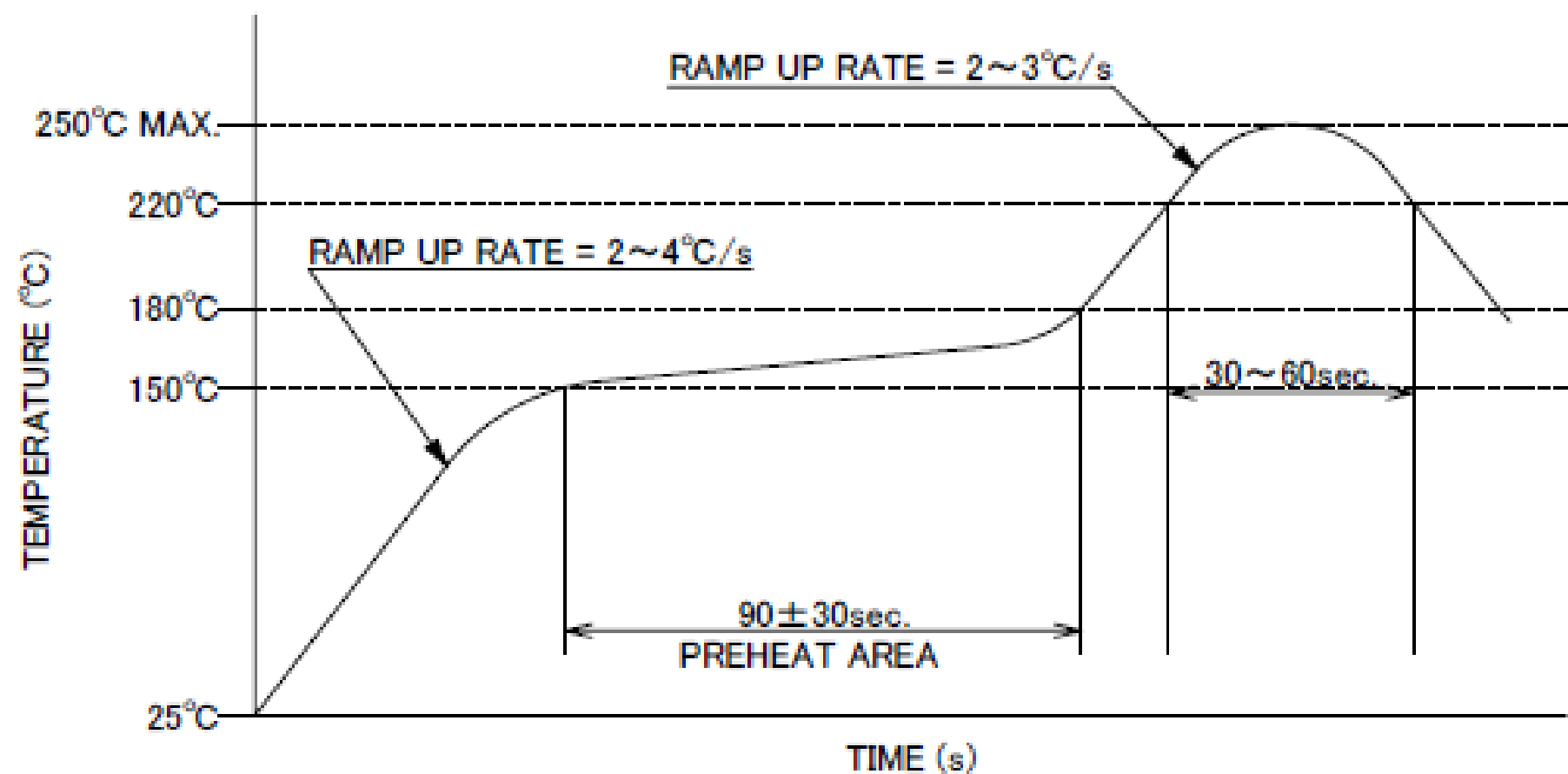
PART NO.	POS.	A	D
20374-R10E-31	10	3.60	7.20
20374-R14E-31	14	5.20	8.80
20374-R20E-31	20	7.60	11.20
20374-R30E-31	30	11.60	15.20
20374-R32E-31	32	12.40	16.00
20374-R35E-31	35	13.60	17.20
20374-R40E-31	40	15.60	19.20
20374-R50E-31	50	19.60	23.20



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



CONNECTOR ON RECOMMENDED FOOTPRIT PATTERN



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) ※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
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.28

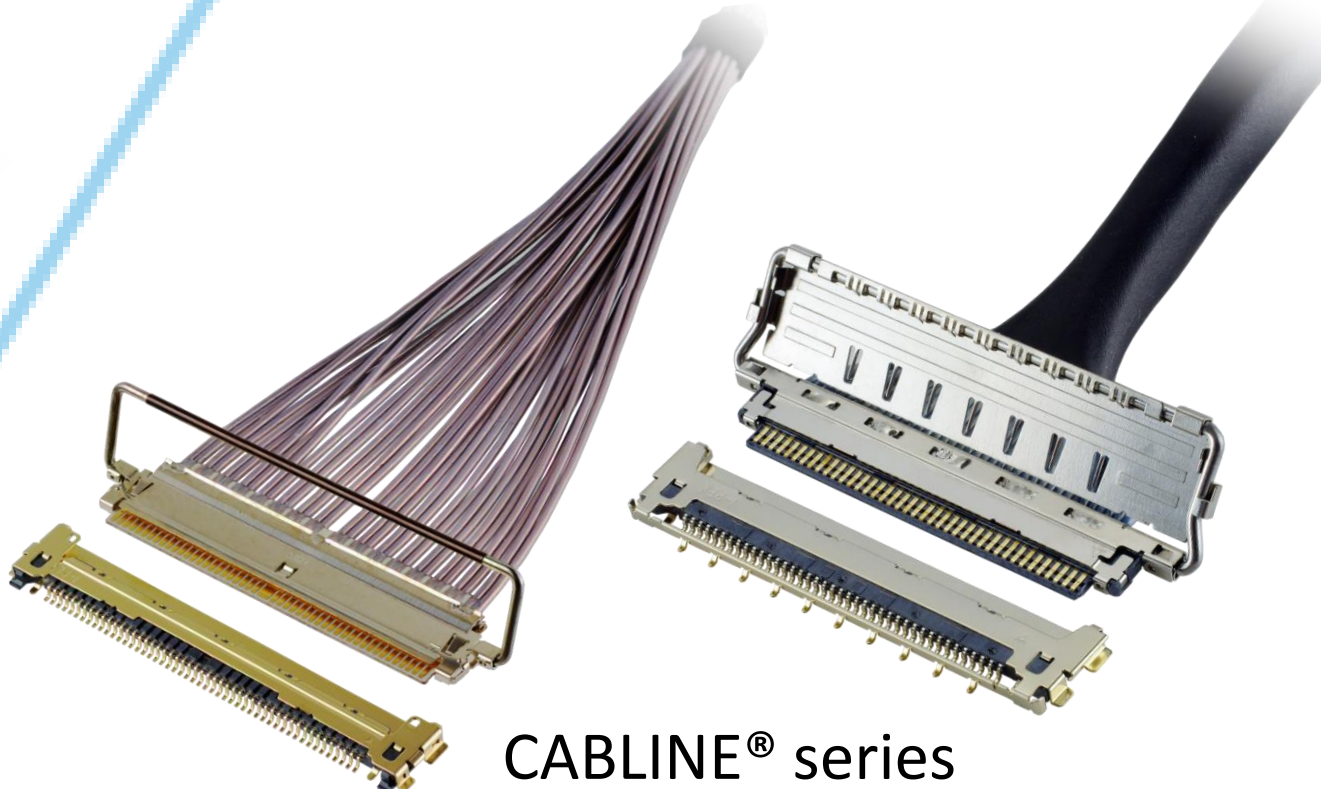
Custom Connectors Available

 RF
Connectors

MHF® series



CABLINE® series

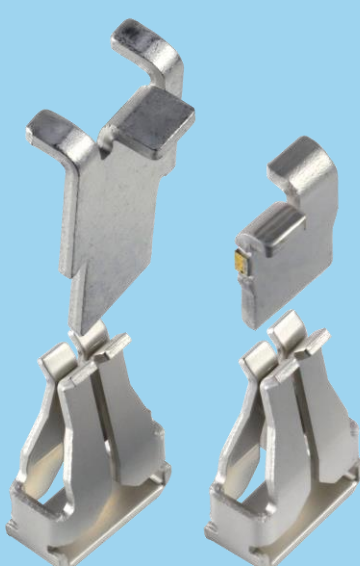


Micro-Coaxial/Twinax
Connectors



Wire-to-Board
Connectors/
Terminals

AP series



ISH® series



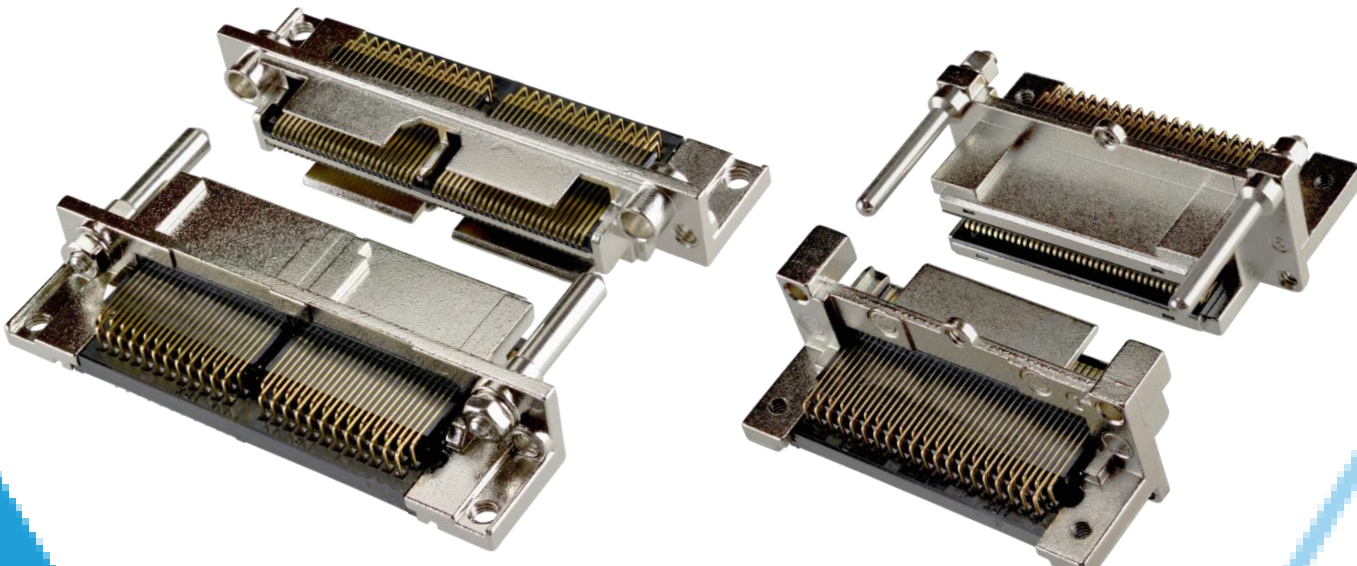
NOVASTACK® series



Board-to-Board
Connectors



I/O
Connectors



MINIDOCK™ series

MINIFLEX® series

EVAFLEX® series



FPC/FFC
Connectors



Inquiry



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