

CABLINE® V

小型化且兼備摩擦力鎖扣，支持USB3.1高速數據傳輸(5Gbps/lane), 觸點抗異物能力強，0.4mm間距, 水平插拔方式的細線同軸連接器



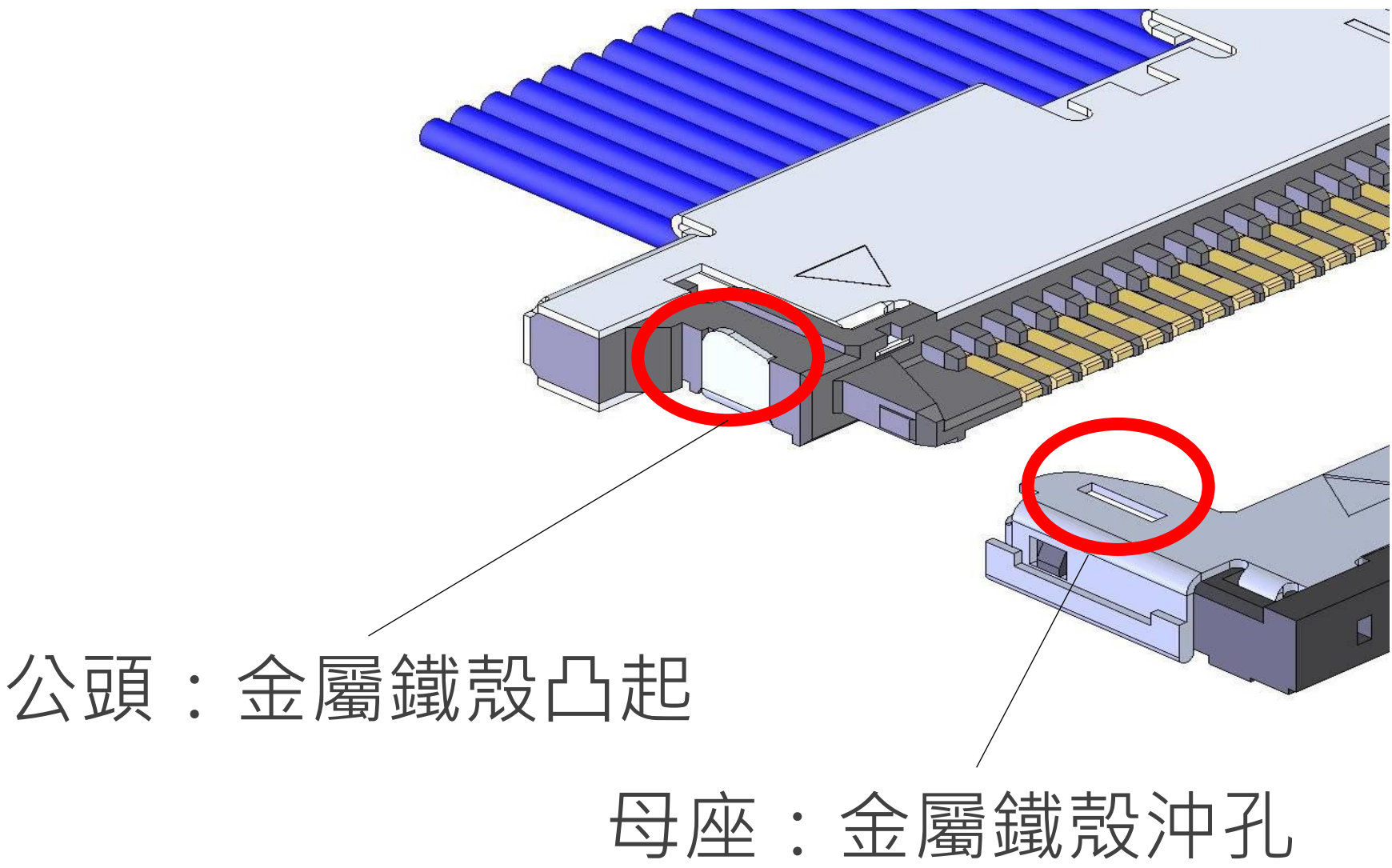
Product Specifications:			Applicable Cable Size:	
Mating type	Horizontal		Maximum O.D. (mm)	0.4
Board Pitch (mm)	0.4		Micro-Coaxial for Signal (AWG)	45 ohm: #38 or smaller
Wiping Length (mm)	0.71			50 ohm: #40 or smaller
Mated size (mm)	Height	1.15 Max	Twinax (AWG)	#40
	Width	Formula: 4.8 + (0.4*?p)	Discrete (AWG)	#36 or smaller
	Depth	5.65	Applicable Standards (Reference Only): USB 3.1 Gen 1 (5 Gbps) V-By-One HS 1.4 (4 Gbps) eDP (2.7 Gbps) MiPi standards	
Pin Counts	Range	Up to 40		
	Available	10, 15, 20, 25, 30, 35, 40		

*若有規格外 Pin 數需求,請與當地負責業務窗口聯繫。

▶ 自帶摩擦力鎖扣方式，產品小型化設計

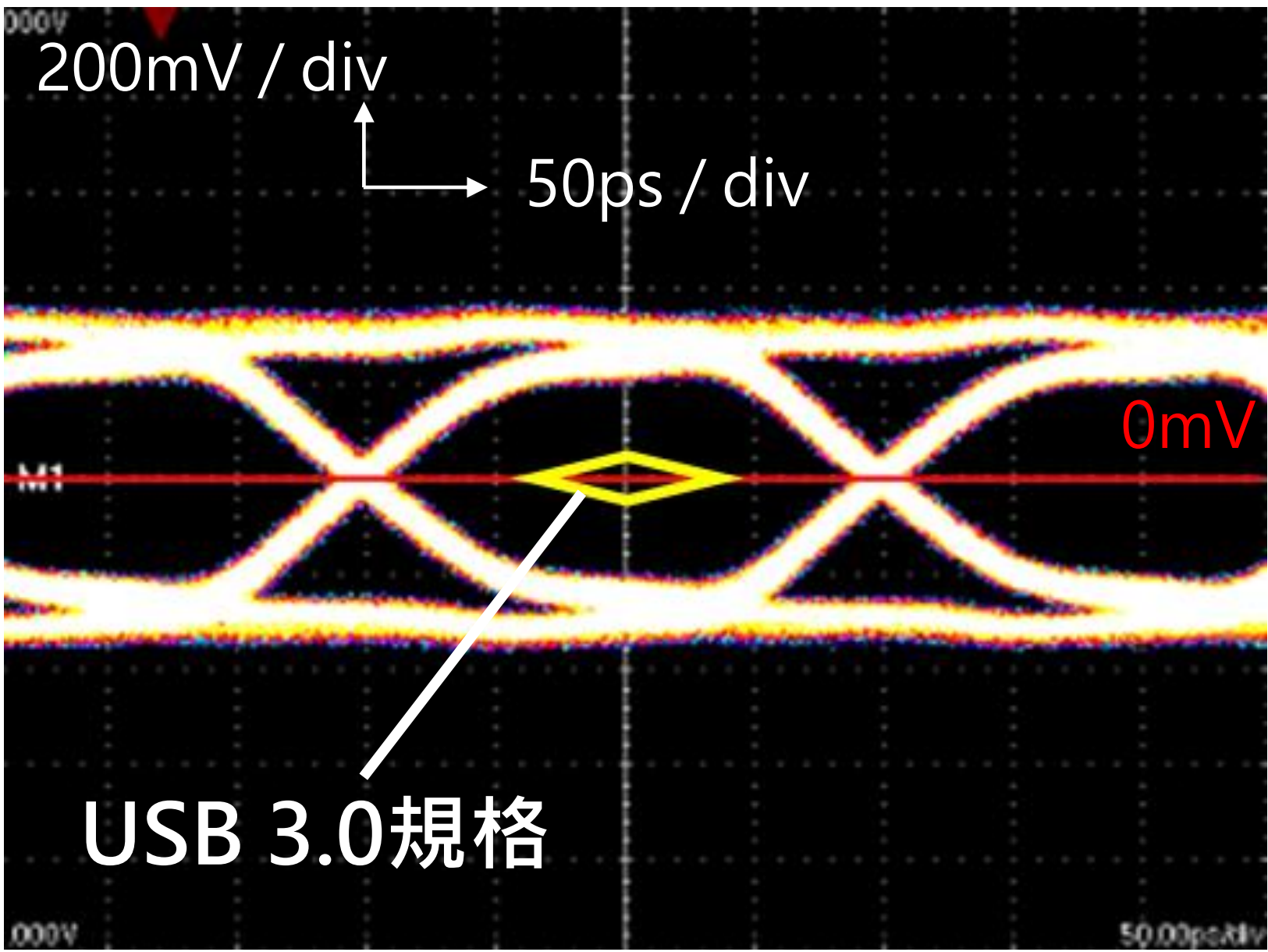
寬度 (mm)	4.8+(0.4*?p)
深度 (mm)	5.65

CABLINE V 35p 保持力	
摩擦力鎖扣型	12N
非摩擦力鎖扣型	8N

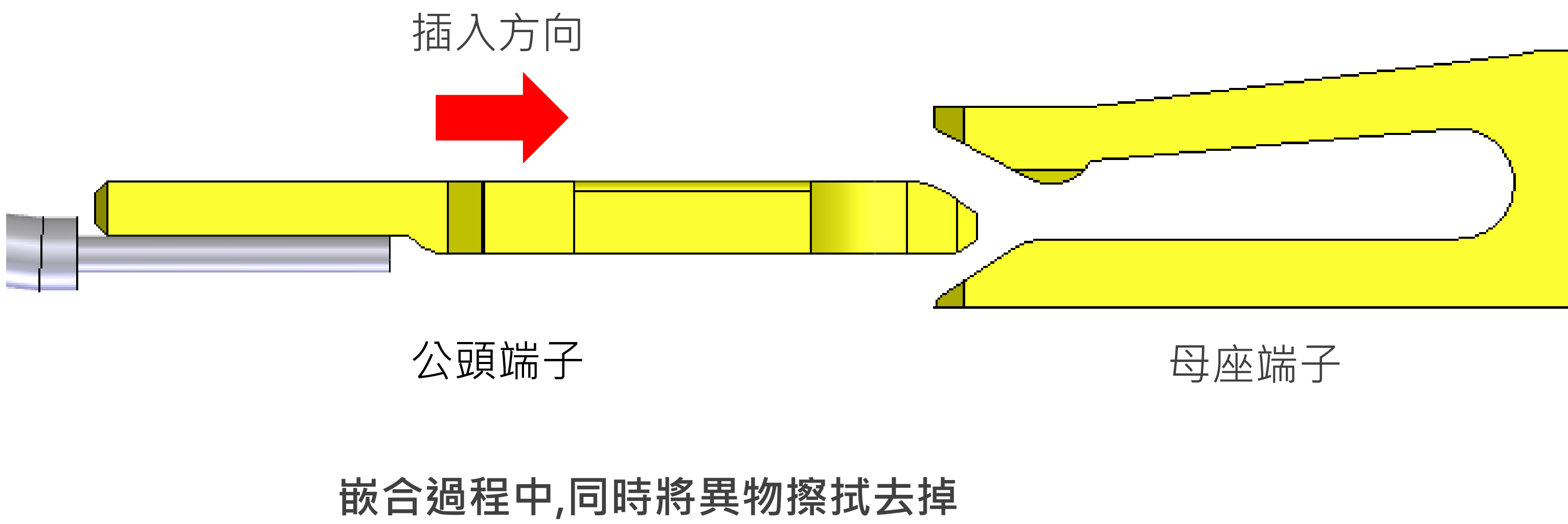


▶ USB 3.1(5Gbps/lane) 高速率傳輸應用的理想之選

眼圖 (差動傳輸)
比特率: 5Gbps
脈衝上升時間：60ps (10-90%)
輸入電壓：800mVp-p
*若有需要更詳細信息,請與I-PEX聯繫.



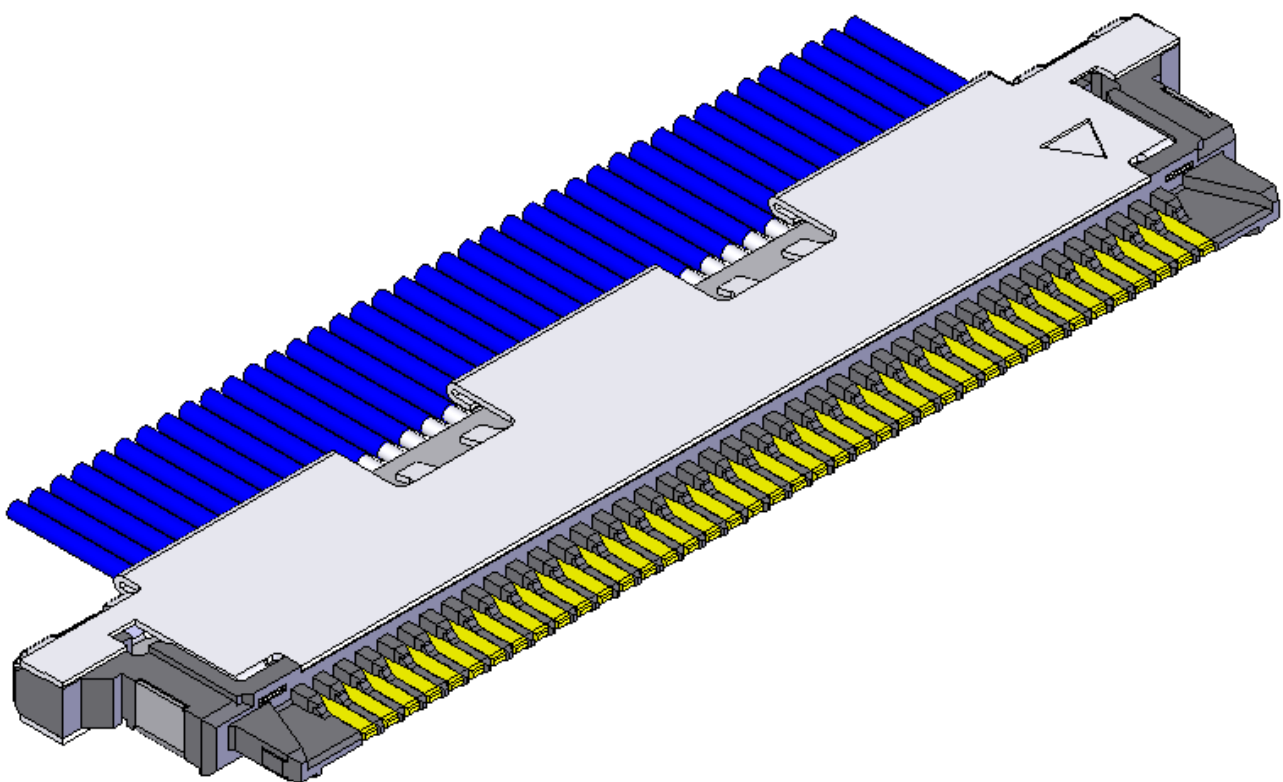
▶ 母座端子採用音叉式設計，插入時可排除異物，導通可靠性強



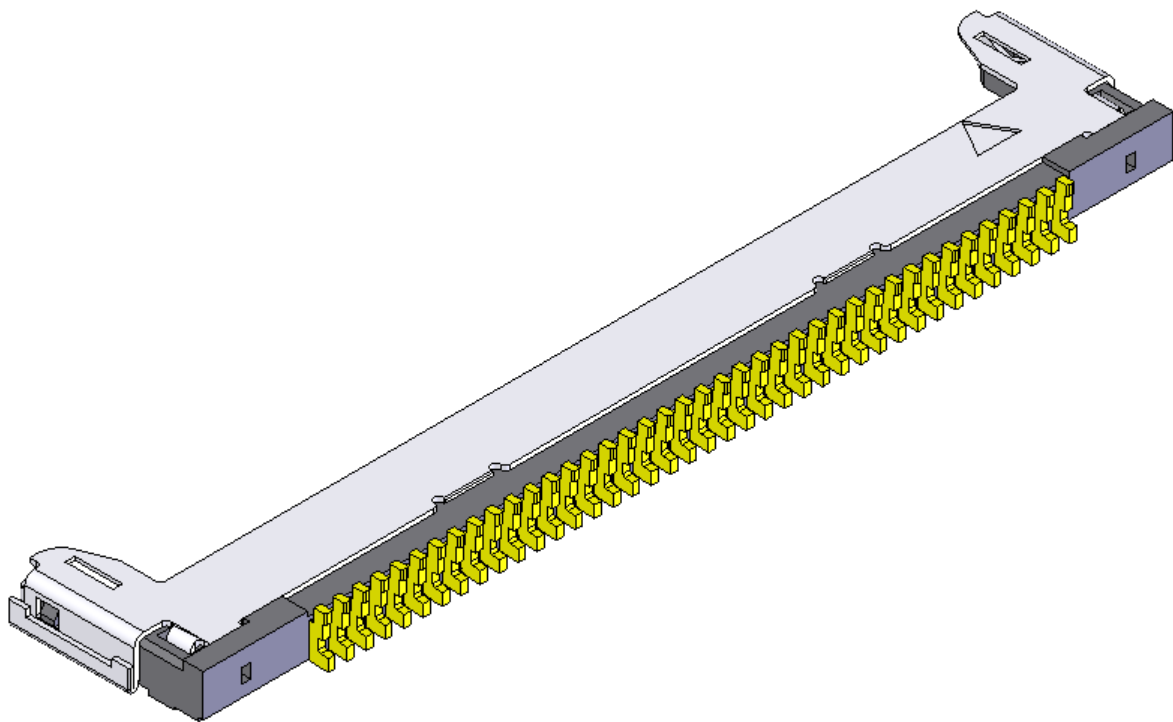
Component Parts Details

Component Parts

Connector parts

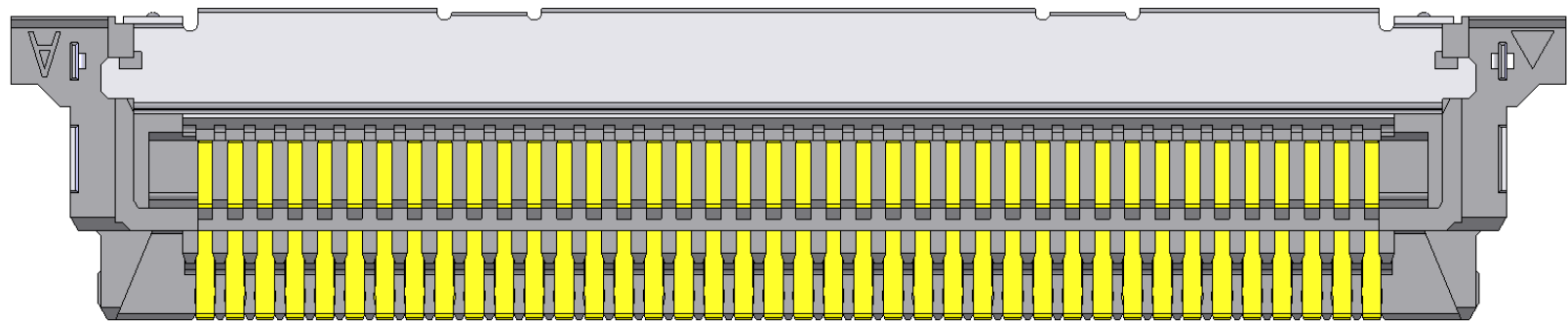


PLUG

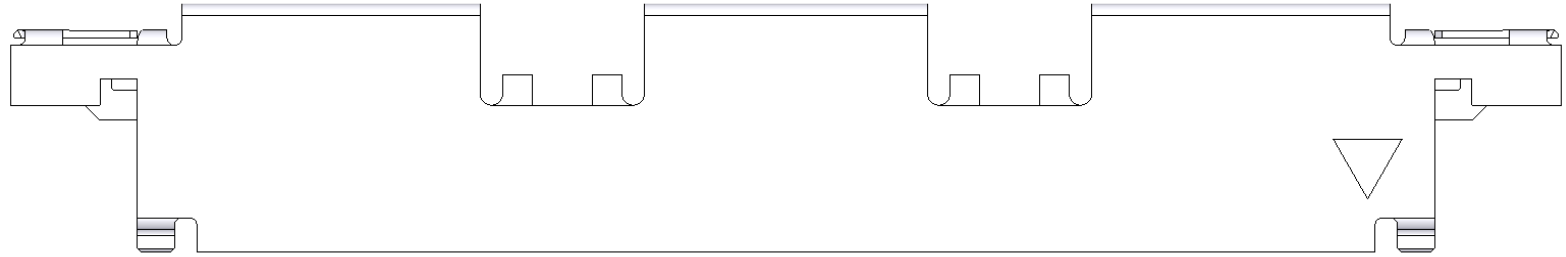


RECEPTACLE

Plug parts



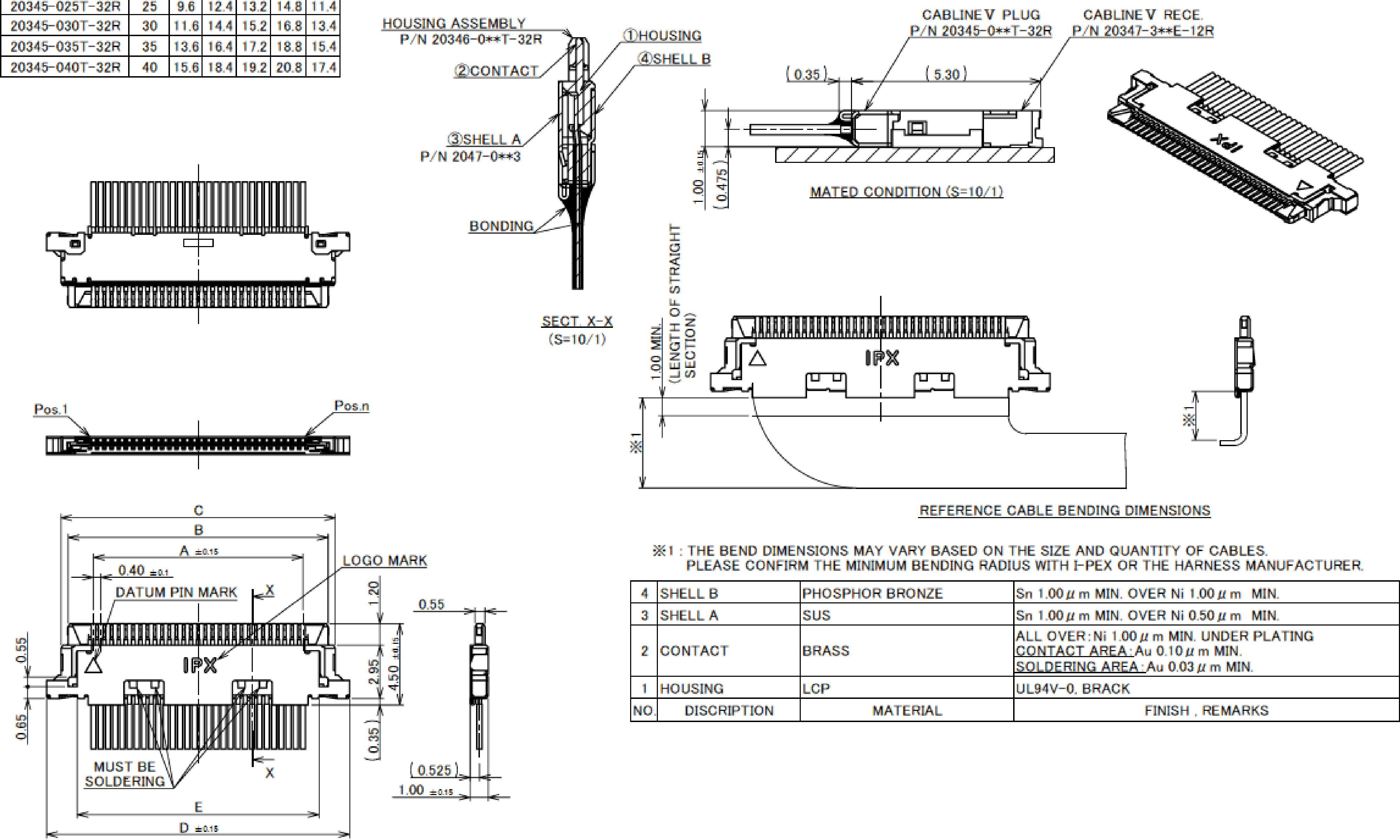
PLUG HOUSING ASSEMBLY



PLUG SHELL-A

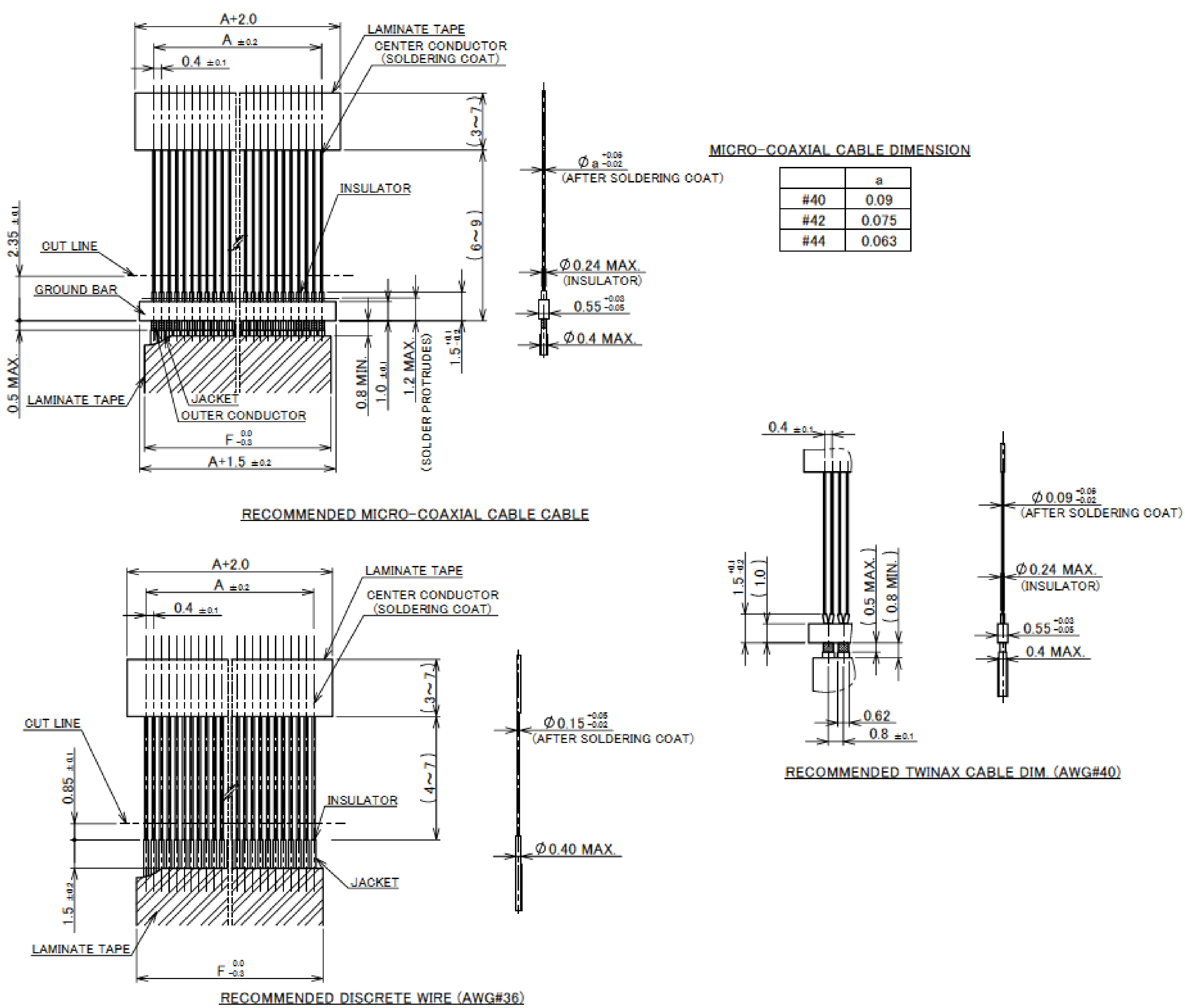
Plug for Cable Assembly

Recommended P/N		20345-0**T-32R				
PART NO.	POS.	A	B	C	D	E
20345-010T-32R	10	3.6	6.4	7.2	8.8	5.4
20345-015T-32R	15	5.6	8.4	9.2	10.8	7.4
20345-020T-32R	20	7.6	10.4	11.2	12.8	9.4
20345-025T-32R	25	9.6	12.4	13.2	14.8	11.4
20345-030T-32R	30	11.6	14.4	15.2	16.8	13.4
20345-035T-32R	35	13.6	16.4	17.2	18.8	15.4
20345-040T-32R	40	15.6	18.4	19.2	20.8	17.4



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PART NO.	POS.	A	F
20345-010T-32R	10	3.6	4.6
20345-015T-32R	15	5.6	6.6
20345-020T-32R	20	7.6	8.6
20345-025T-32R	25	9.6	10.6
20345-030T-32R	30	11.6	12.6
20345-035T-32R	35	13.6	14.6
20345-040T-32R	40	15.6	16.6



Rev.30

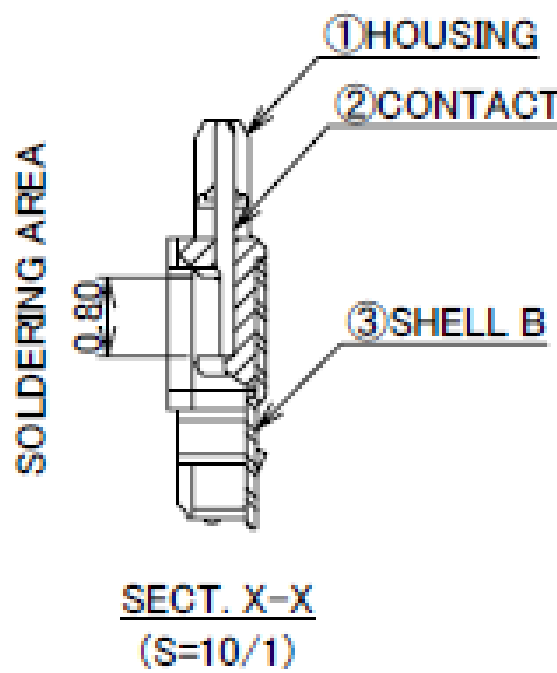
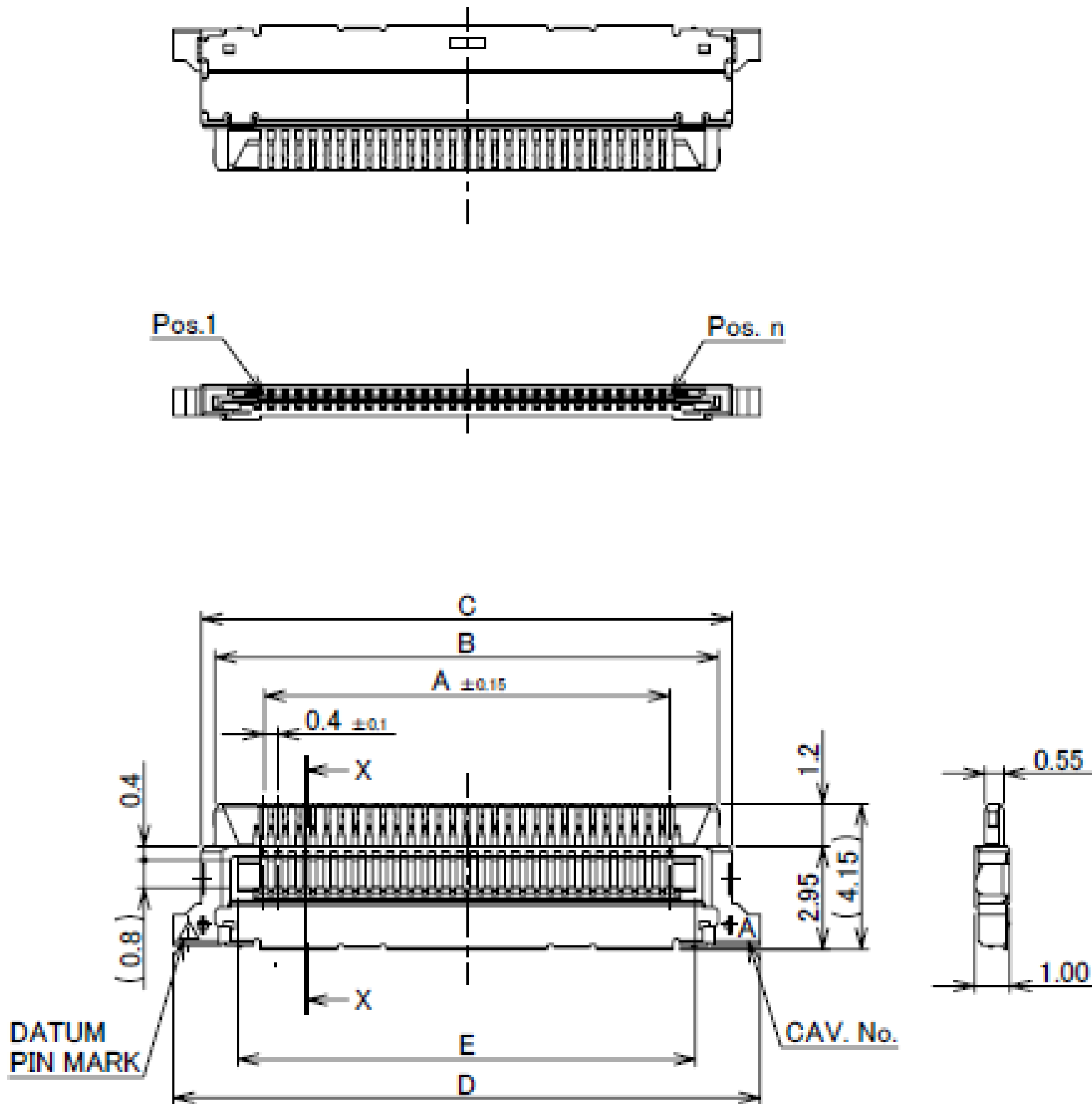
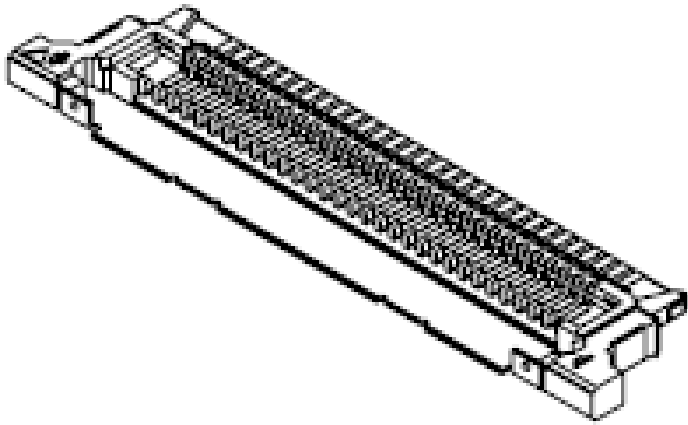
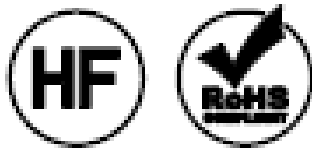
Plug for Cable Assembly

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 44,42,40 DISCRETE WIRE : AWG# 36 TWINAX CABLE : AWG# 40
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 / UP TO 40 CONTACTS) 0.24A AC/DC [AWG#42] (PER CONTACT PIN / UP TO 40 CONTACTS) 0.3A AC/DC [AWG#40] (PER CONTACT PIN / UP TO 40 CONTACTS) 0.8A AC/DC [AWG#36] (PER CONTACT PIN / UP TO 12 CONTACTS) ※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 : 235mohm MAX.(AWG#36) / AFTER TEST : ≦40mohm MAX. 560mohm MAX.(AWG#40) 650mohm MAX.(AWG#42) 1040mohm 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)	10P : 20.0N MAX. 15P : 22.5N MAX. 20P : 25.0N MAX. 25P : 27.5N MAX. 30P : 30.0N MAX. 35P : 32.5N MAX. 40P : 35.0N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	10P : 4.0N MIN. 15P : 5.0N MIN. 20P : 5.5N MIN. 25P : 6.0N MIN. 30P : 7.0N MIN. 35P : 8.0N MIN. 40P : 8.5N MIN.
CABLE RETENTION FORCE	10P : 4.90N MIN. 15P : 7.35N MIN. 20P : 9.80N MIN. 25P : 12.25N MIN. 30P : 14.70N MIN. 35P : 17.15N MIN. 40P : 19.60N MIN.
PRODUCT SPECIFICATION	P/N : 20345-0**T-32R *** PRS-1461
TEST REPORT	P/N : 20345-0**T-32R *** TR-08068
INSTRUCTION MANUAL	HIM-03005
ASSEMBLY MANUAL	ASM-03002
APPEARANCE CRITERIA NO.	QLS-A***

Rev.30

Plug Housing Assembly

Recommended P/N		20346-0**T-32R				
PART NO.	POS.	A	B	C	D	E
20346-010T-32R	10	3.6	6.4	7.2	8.8	5.1
20346-015T-32R	15	5.6	8.4	9.2	10.8	7.1
20346-020T-32R	20	7.6	10.4	11.2	12.8	9.1
20346-025T-32R	25	9.6	12.4	13.2	14.8	11.1
20346-030T-32R	30	11.6	14.4	15.2	16.8	13.1
20346-035T-32R	35	13.6	16.4	17.2	18.8	15.1
20346-040T-32R	40	15.6	18.4	19.2	20.8	17.1

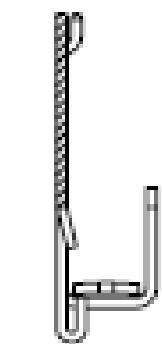
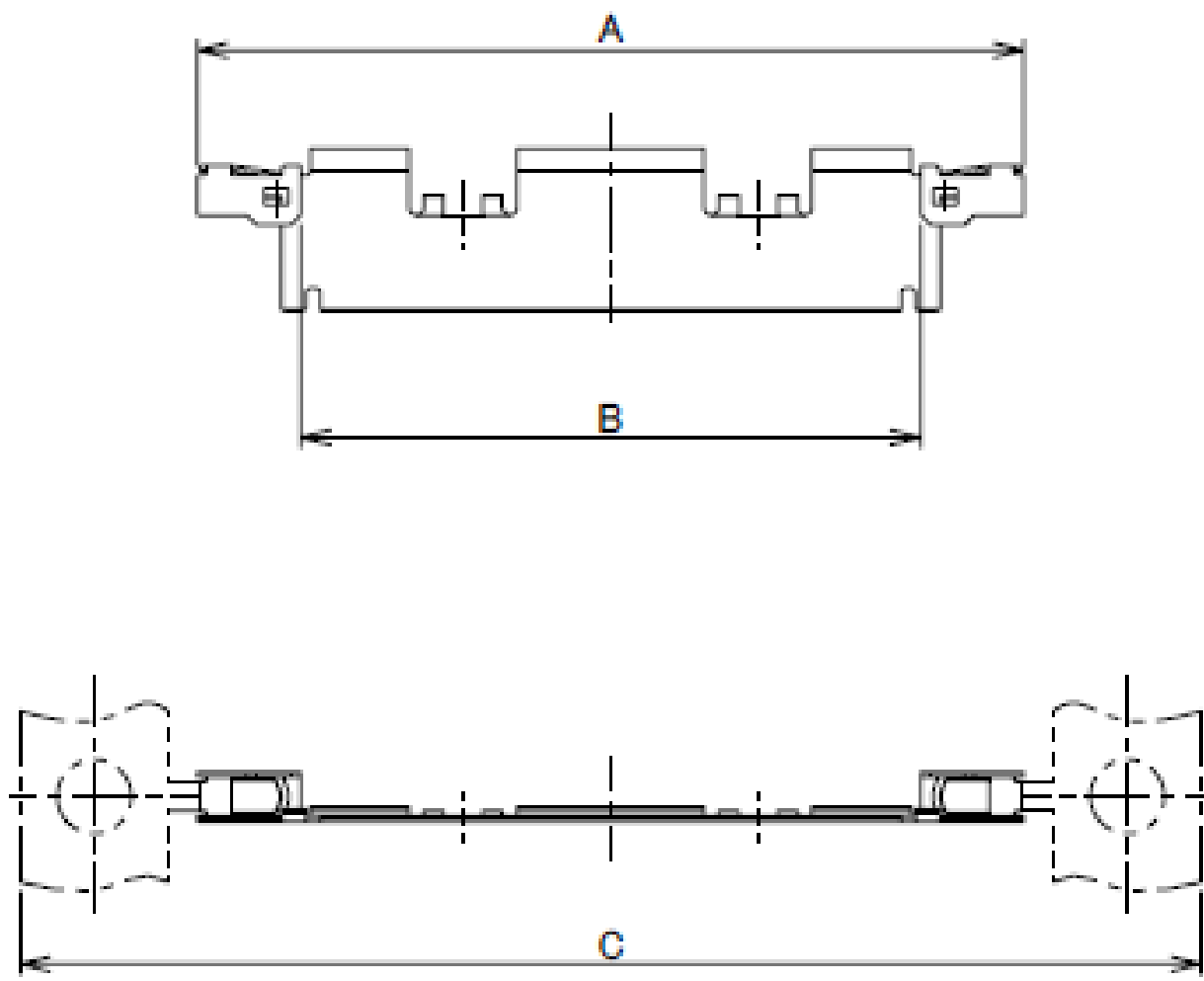
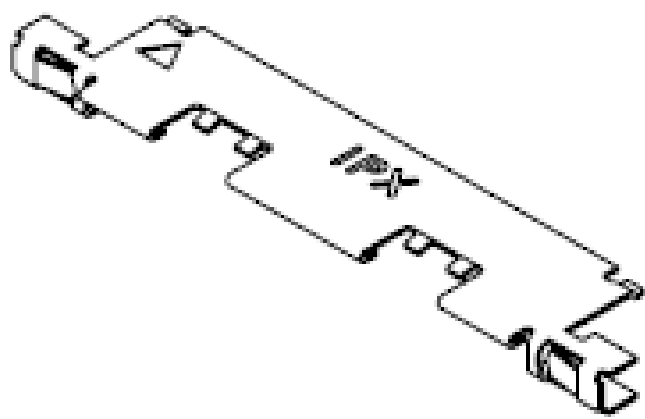
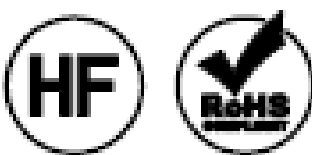


3	SHELL B	PHOSPHOR BRONZE	Sn 1.00 μm OVER Ni 1.00 μm MIN.
2	CONTACT	BRASS	ALL OVER: Ni 1.00 μm MIN. UNDER PLATING CONTACT AREA: Au 0.10 μm MIN. SOLDERING AREA: Au 0.03 μm MIN.
1	HOUSING	LCP	UL94V-0, BRACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

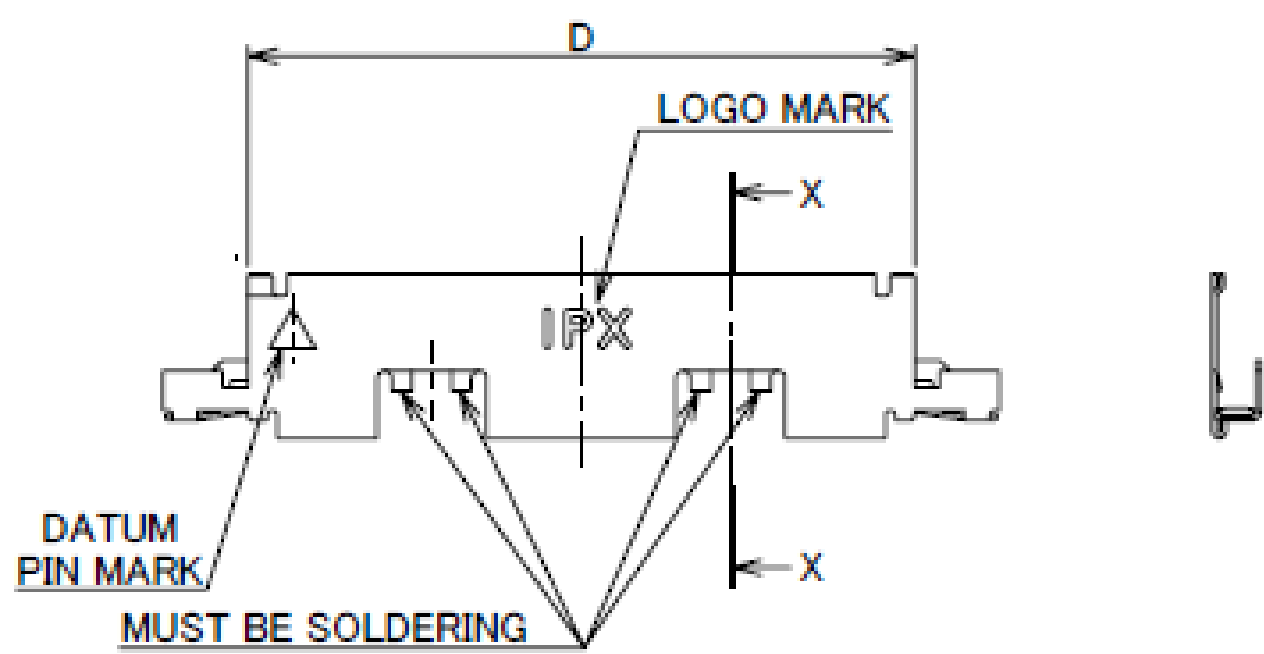
Rev.22

Plug Shell-A

Recommended P/N		2047-0**3			
PART NO.	A	B	C	D	
2047-0103	8.8	4.6	19.5	5.4	
2047-0153	10.8	6.6	19.5	7.4	
2047-0203	12.8	8.6	19.5	9.4	
2047-0253	14.8	10.6	27.5	11.4	
2047-0303	16.8	12.6	27.5	13.4	
2047-0353	18.8	14.6	27.5	15.4	
2047-0403	20.8	16.6	27.5	17.4	



SECT. X-X
(S=10/1)

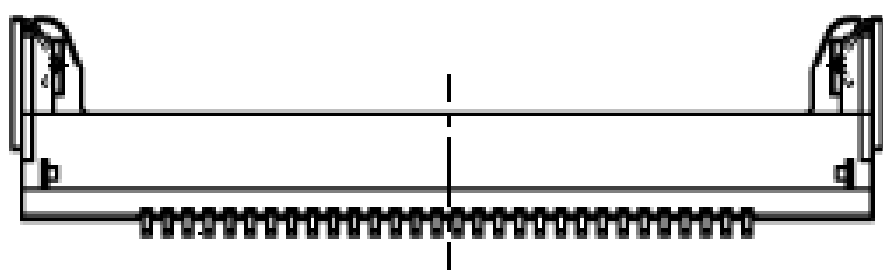
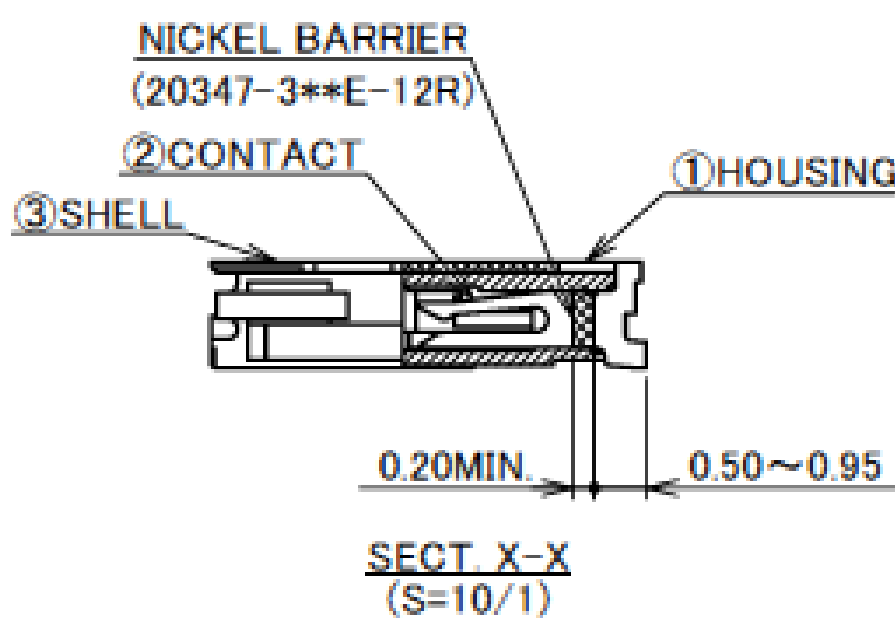
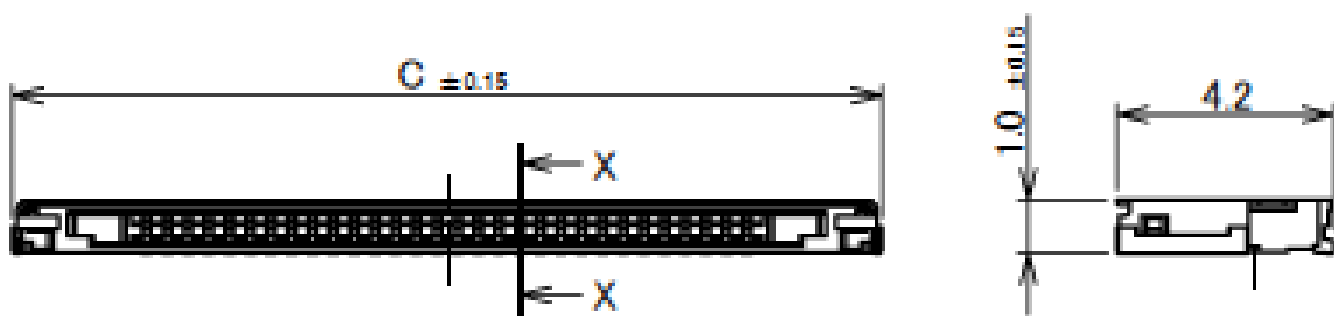
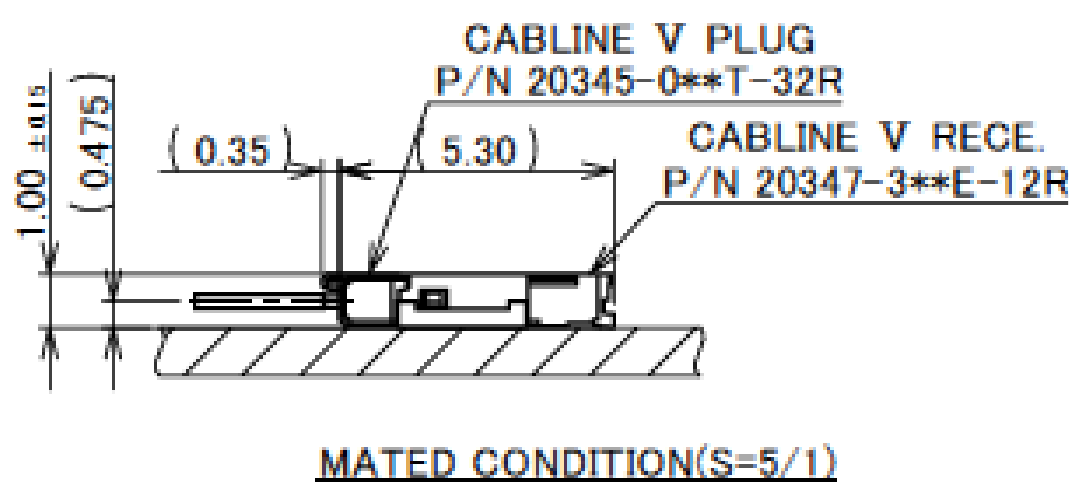
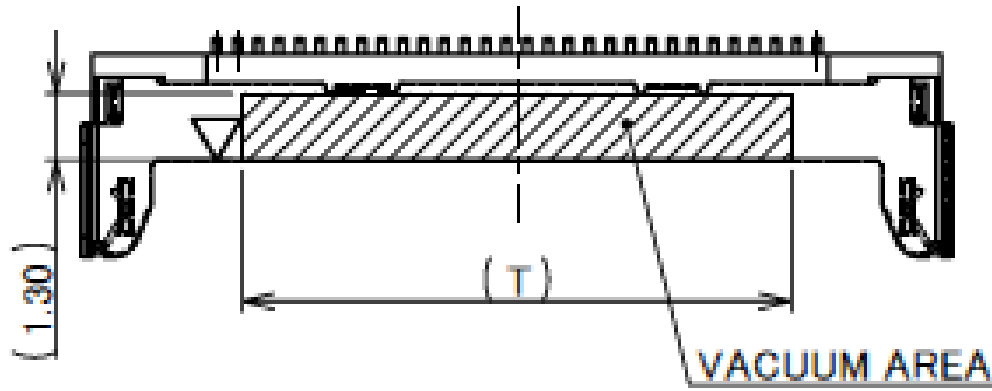
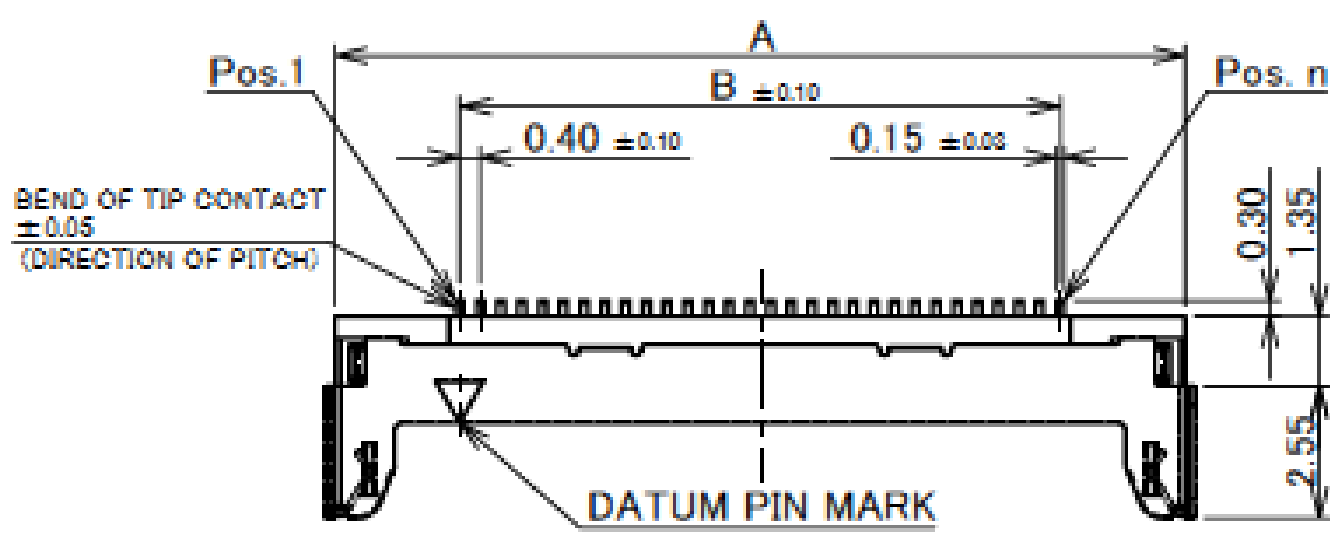
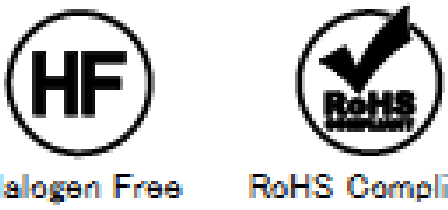


1	SHELL A	SUS	Sn 1.00 μ m MIN. OVER Ni 0.50 μ m MIN.
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

Rev.21

Receptacle Assembly

Recommended P/N		20347-3**E-12R				
PART NO.	POS.	A	B	C	T	
20347-310E-12R	10	8.40	3.60	8.80	2.60	
20347-315E-12R	15	10.40	5.60	10.80	4.60	
20347-320E-12R	20	12.40	7.60	12.80	6.60	
20347-325E-12R	25	14.40	9.60	14.80	8.60	
20347-330E-12R	30	16.40	11.60	16.80	10.60	
20347-335E-12R	35	18.40	13.60	18.80	12.60	
20347-340E-12R	40	20.40	15.60	20.80	14.60	

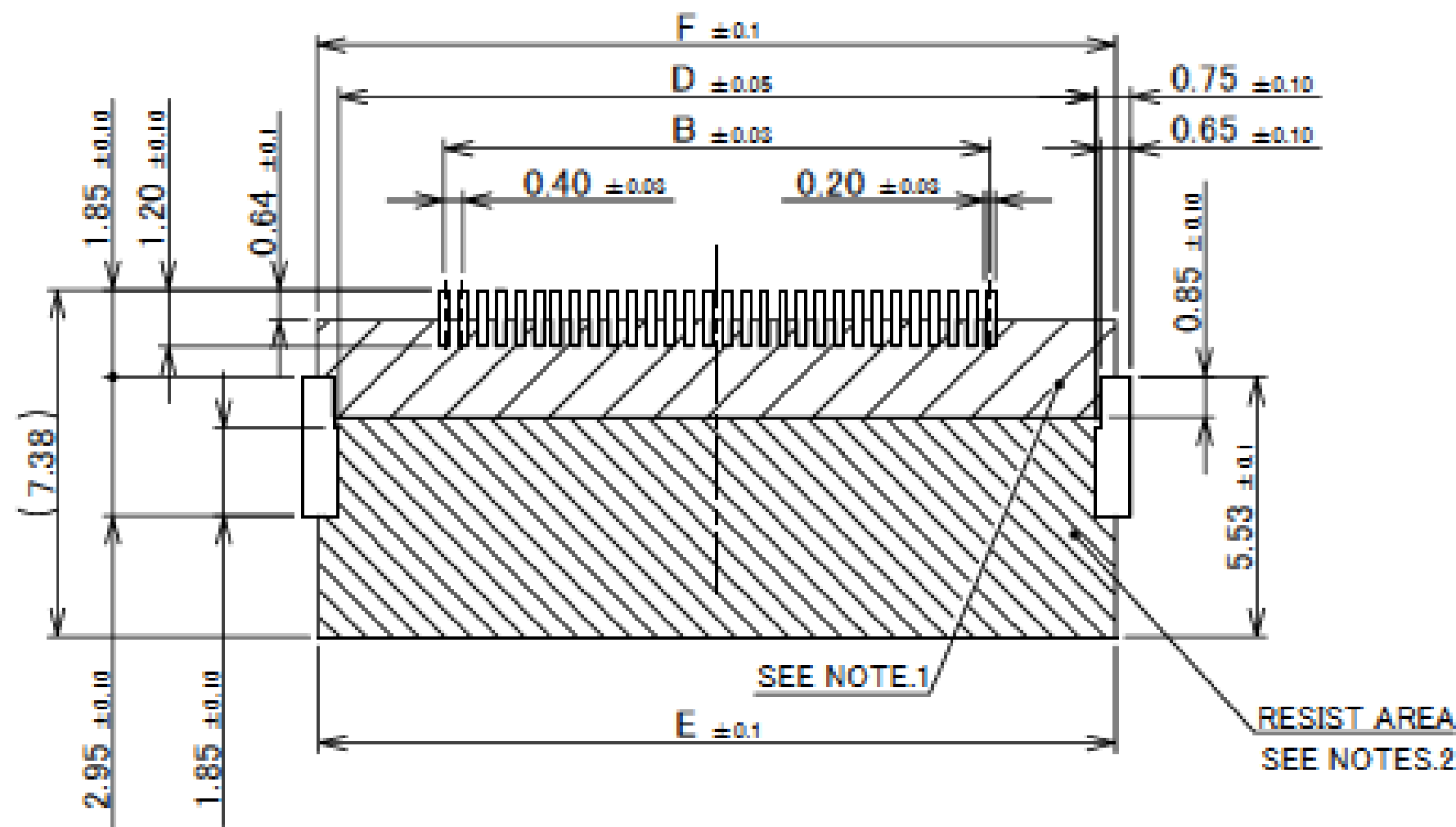


3	SHELL	PHOSPHOR BRONZE	Sn 1.00 μ m MIN. OVER Ni 1.00 μ m MIN.
2	CONTACT	PHOSPHOR BRONZE	ALL OVER: Ni 1.00 μ m MIN. UNDER PLATING CONTACT AREA: Au 0.10 μ m MIN. SOLDERING AREA: Au 0.03 μ m MIN.
1	HOUSING	LCP	UL94V-0, BRACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

Rev.37

Receptacle Assembly

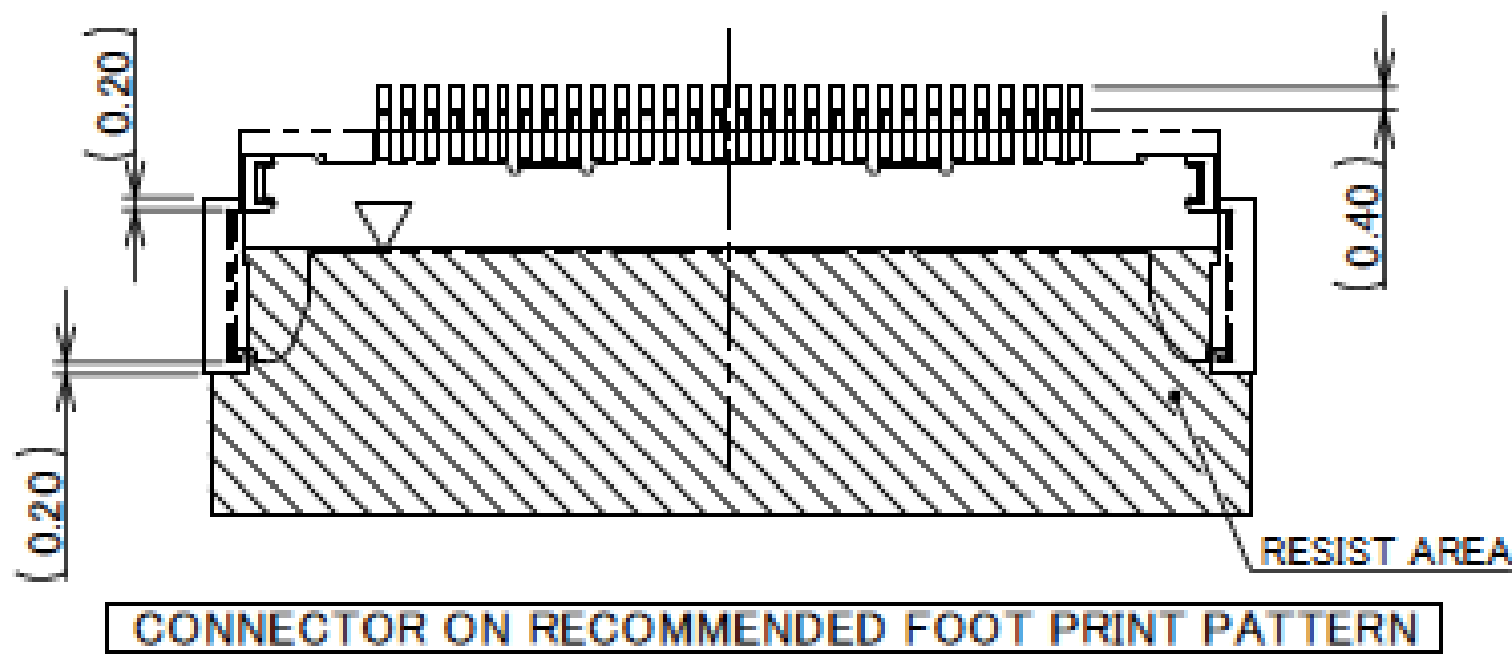
PART NO.	POS.	B	D	E	F
20347-310E-12R	10	3.60	8.10	9.94	8.97
20347-315E-12R	15	5.60	10.10	10.94	10.97
20347-320E-12R	20	7.60	12.10	12.94	12.97
20347-325E-12R	25	9.60	14.10	14.94	14.97
20347-330E-12R	30	11.60	16.10	16.94	16.97
20347-335E-12R	35	13.60	18.10	18.94	18.97
20347-340E-12R	40	15.60	20.10	20.94	20.97



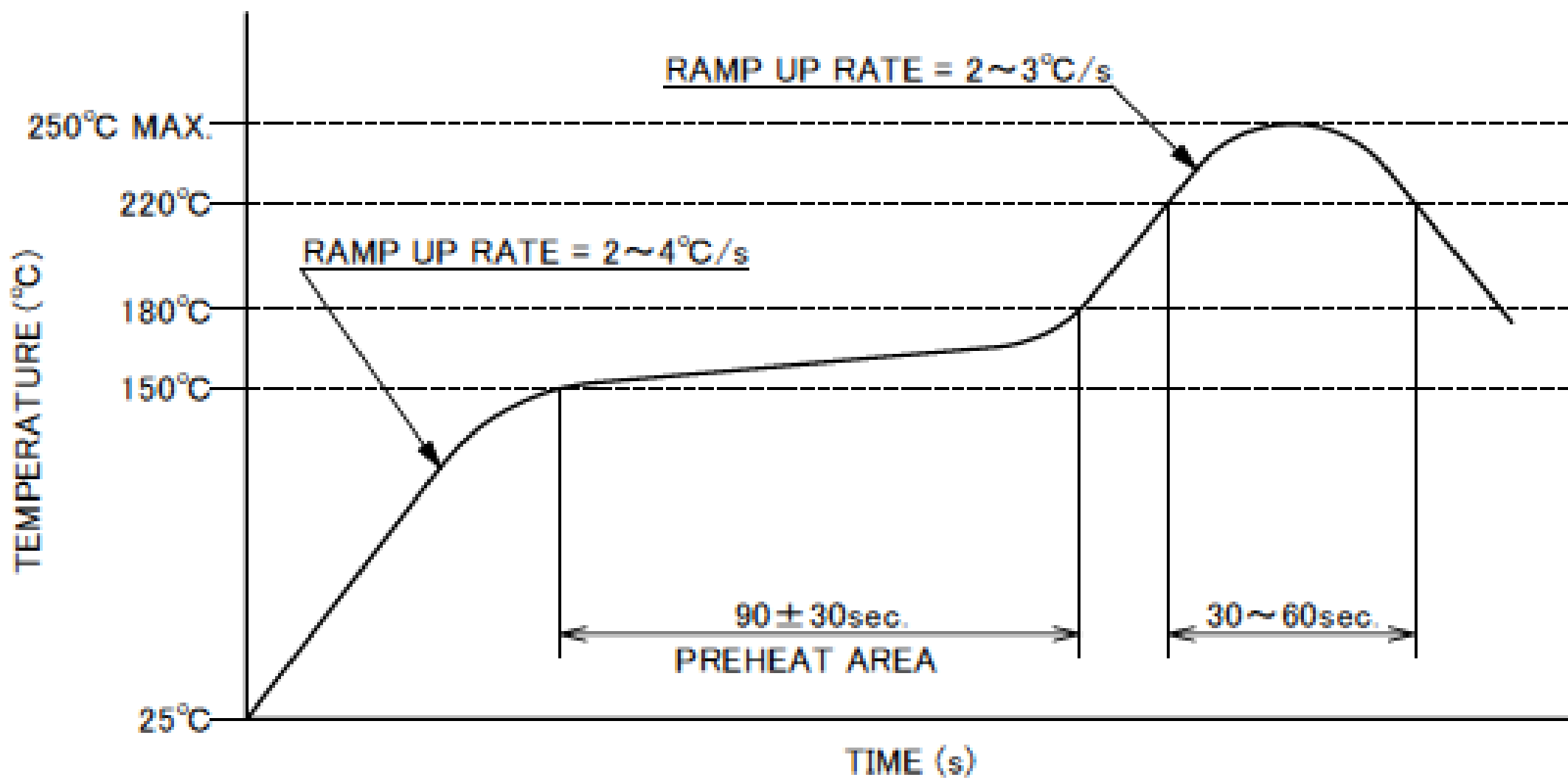
RECOMMENDED FOOT PRINT PATTERN & METALMASK LAYOUT
RECOMMENDED METALMASK THICKNESS : $t=0.12$

- NOTES.
1. DO NOT MOUNT ANOTHER COMPONENTS IN THIS AREA.
2. SOLDER RESIST MUST BE APPLIED TO THIS AREA.

Rev.37



CONNECTOR ON RECOMMENDED FOOT PRINT PATTERN



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

Rev.37

Receptacle Assembly

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 44,42,40 DISCRETE WIRE : AWG# 36 TWINAX : AWG# 40
RATING VOLTAGE	100V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR CONTACT)	0.1A AC/DC [AWG#44] PER CONTACT PIN / UP TO 40 CONTACTS 0.24A AC/DC [AWG#42] PER CONTACT PIN / UP TO 40 CONTACTS 0.3A AC/DC [AWG#40] PER CONTACT PIN / UP TO 40 CONTACTS 0.8A AC/DC [AWG#36] PER CONTACT PIN / UP TO 12 CONTACTS ※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233~358K(-40℃~+85℃)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 235mohm MAX.(AWG#36) / AFTER TEST : ≦140mohm MAX. 560mohm MAX.(AWG#40) 650mohm MAX.(AWG#42) 1040mohm MAX.(AWG#44)
GROUND SHELL RESISTANCE	INITIAL : 50mohm MAX. / AFTER TEST : ≦140mohm MAX.
INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	10P : 20.0N MAX. 15P : 22.5N MAX. 20P : 25.0N MAX. 25P : 27.5N MAX. 30P : 30.0N MAX. 35P : 32.5N MAX. 40P : 35.0N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	10P : 4.0N MIN. 15P : 5.0N MIN. 20P : 5.5N MIN. 25P : 6.0N MIN. 30P : 7.0N MIN. 35P : 8.0N MIN. 40P : 8.5N MIN.
CABLE RETENTION FORCE	10P : 4.90N MIN. 15P : 7.35N MIN. 20P : 9.80N MIN. 25P : 12.25N MIN. 30P : 14.70N MIN. 35P : 17.15N MIN. 40P : 19.60N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	P/N 20347-3**E-12R : PRS-1461
TEST REPORT	P/N 20347-3**E-12R : TR-08068
PACKING STANDARD	300-308
INSTRUCTION MANUAL	HIM-03005
ASSEMBLY MANUAL	ASM-03002
APPEARANCE CRITERIA NO.	QLS-A***

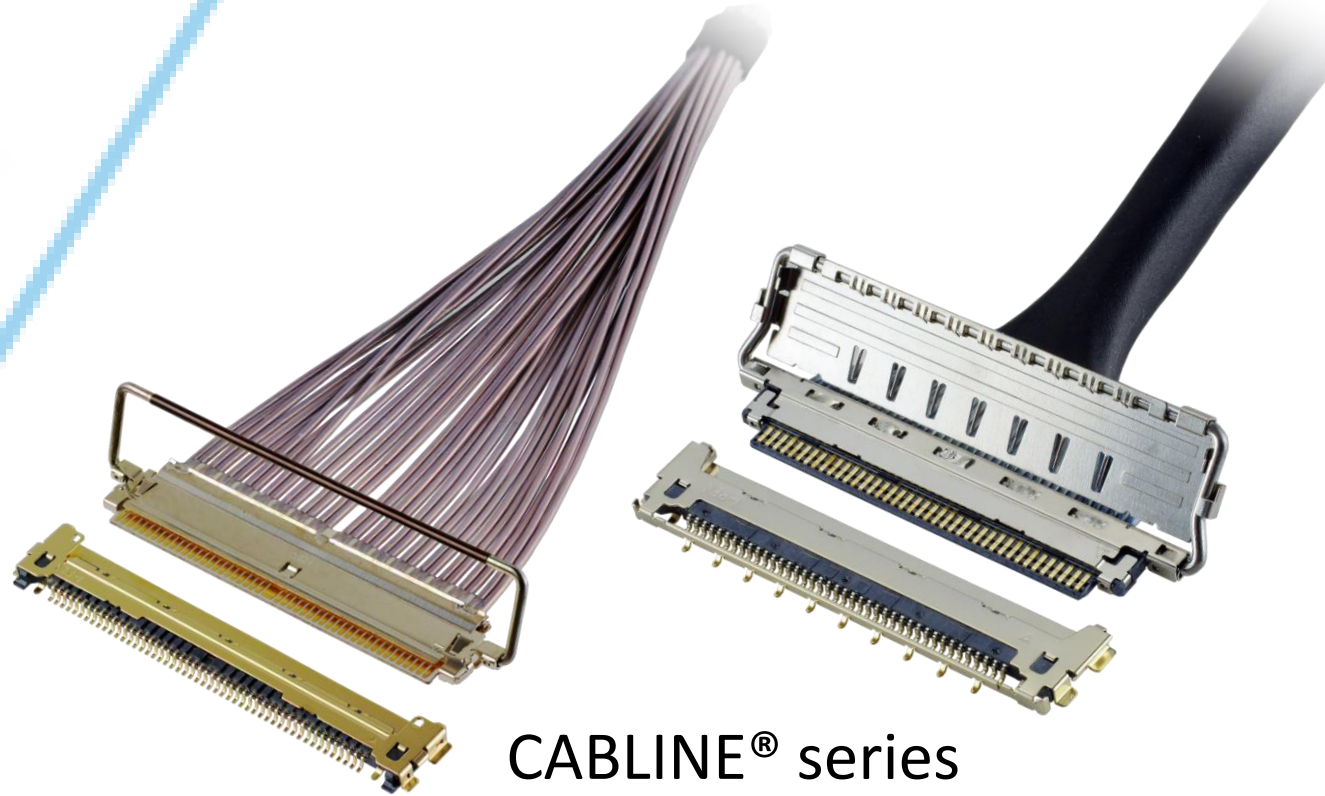
Custom Connectors Available

 RF
Connectors

MHF® series



CABLINE® series



 Micro-Coaxial/Twinax
Connectors



Wire-to-Board
Connectors/
Terminals

AP series



ISH® series



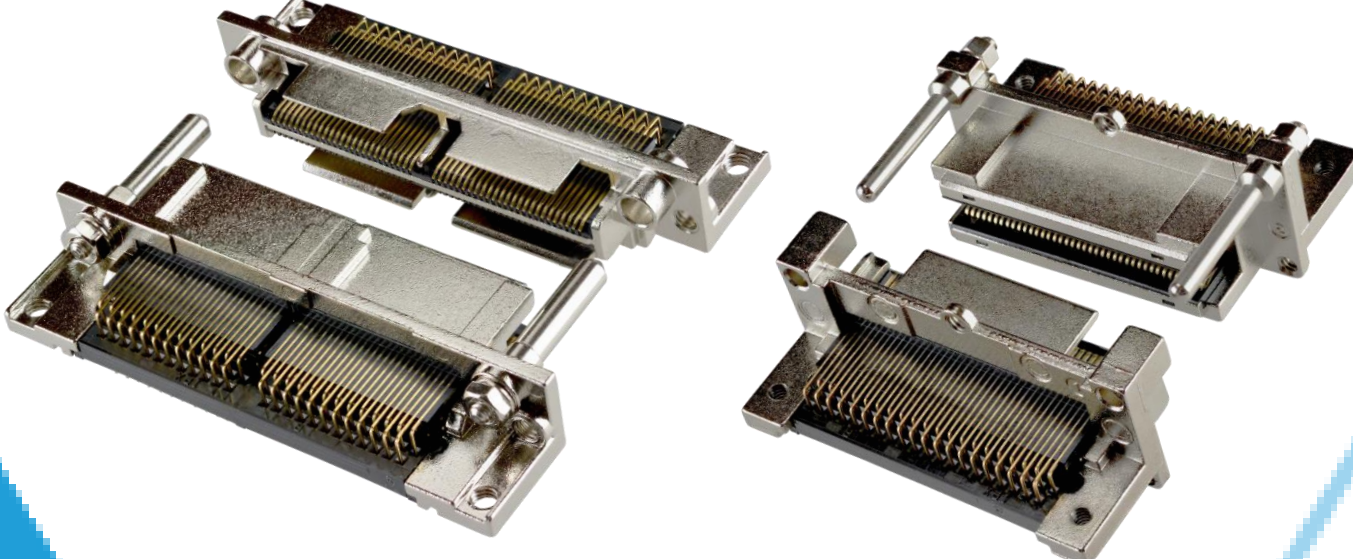
NOVASTACK® series



Board-to-Board
Connectors



I/O
Connectors



MINIDOCK™ series

MINIFLEX® series

EVAFLEX® series



FPC/FFC
Connectors



Inquiry



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Contact your sales representative
or more detailed information.

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