

CABLINE® V

小型化且兼备摩擦力锁扣，支持USB3.1高速数据传输(5Gbps/lane)，触点抗异物能力强，0.4 mm间距，水平插拔方式的细线同轴连接器

Product Specifications:

Mating type	Horizontal	
Board Pitch (mm)	0.4	
Wiping Length (mm)	0.71	
Mated size (mm)	Height	1.0 +/- 0.15
	Width	Formula: 4.8 + (0.4*?p)
	Depth	5.65
Pin Counts	Range	Up to 40
	Available	10, 15, 20, 25, 30, 35, 40

Applicable Cable Size:

Maximum O.D. (mm)	0.4
Micro-Coaxial for Signal (AWG)	45 ohm: #38 or smaller 50 ohm: #40 or smaller
Twinax (AWG)	#40
Discrete (AWG)	#36 or smaller

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

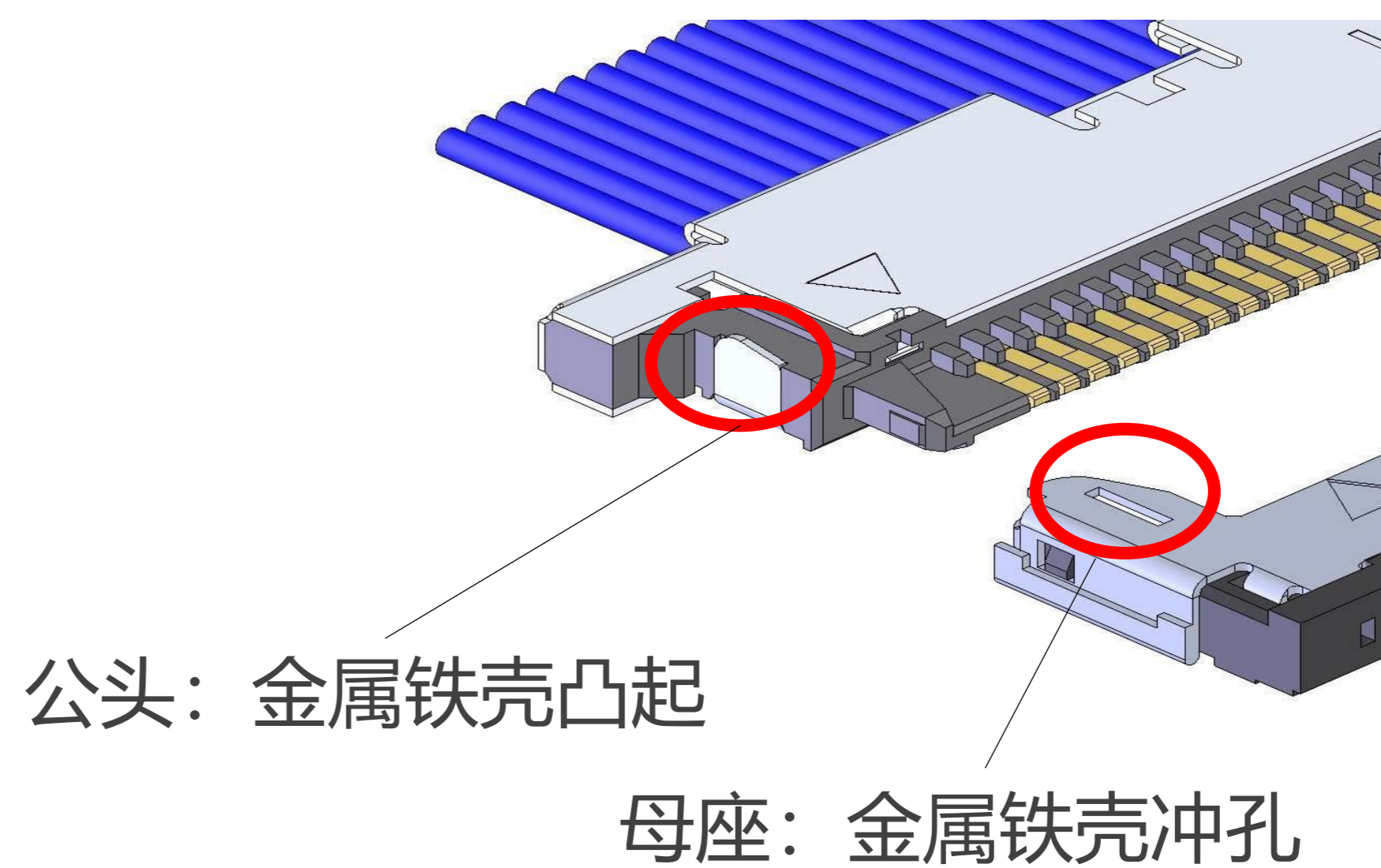
*如您需要了解未列出或不在范围内的Pin数，请咨询我们。



▶ 自带摩擦力锁扣方式，产品小型化设计

宽度 (mm)	4.8+(0.4*?p)
深度 (mm)	5.65

CABLINE V 35p 公母座保持力	
摩擦力锁扣型	12N
非摩擦力锁扣型	8N



▶ USB 3.1 (5Gbps/lane) 高速率传输应用的理想之选

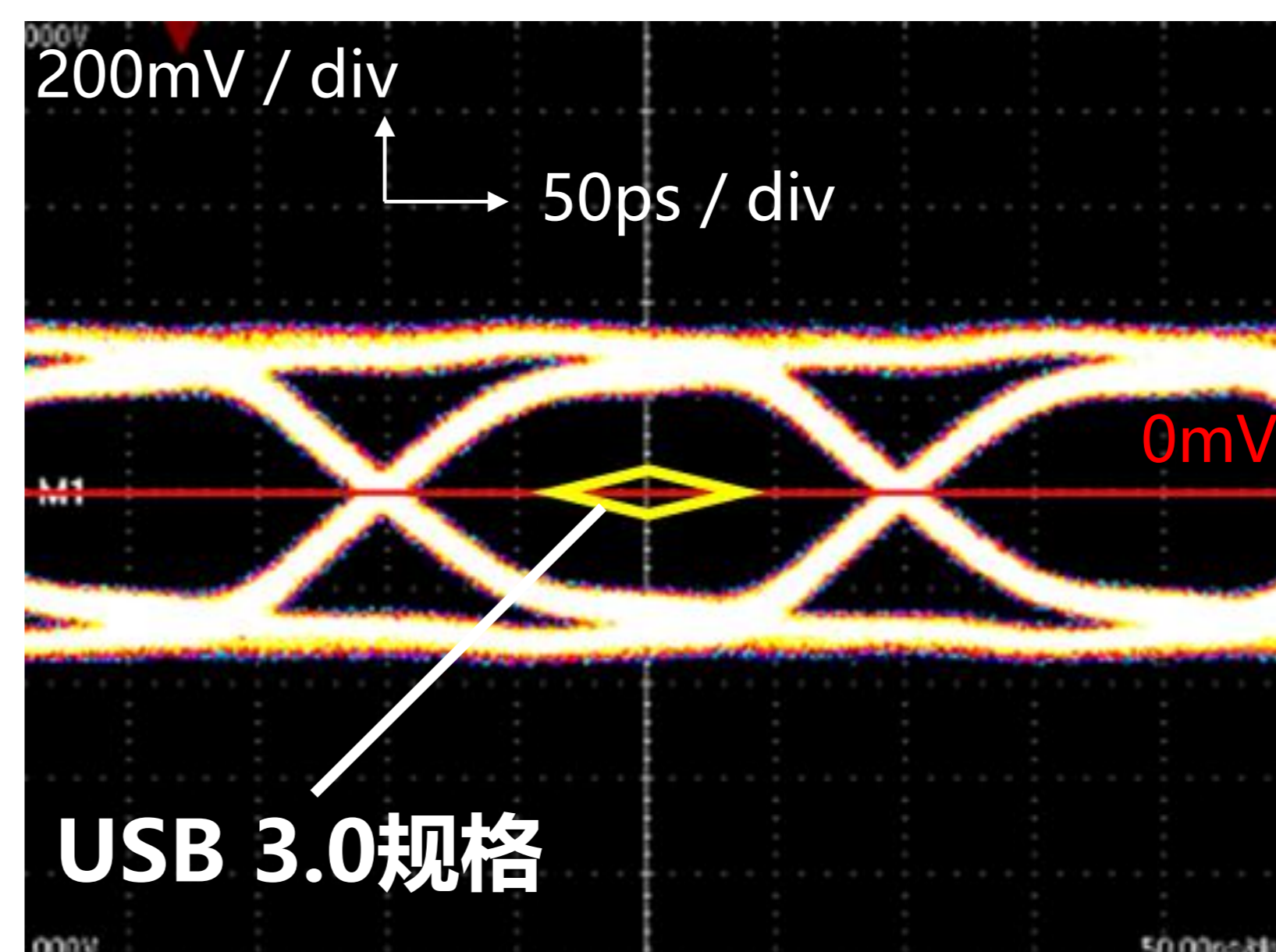
眼图 (差动传输)

比特率：5Gbps

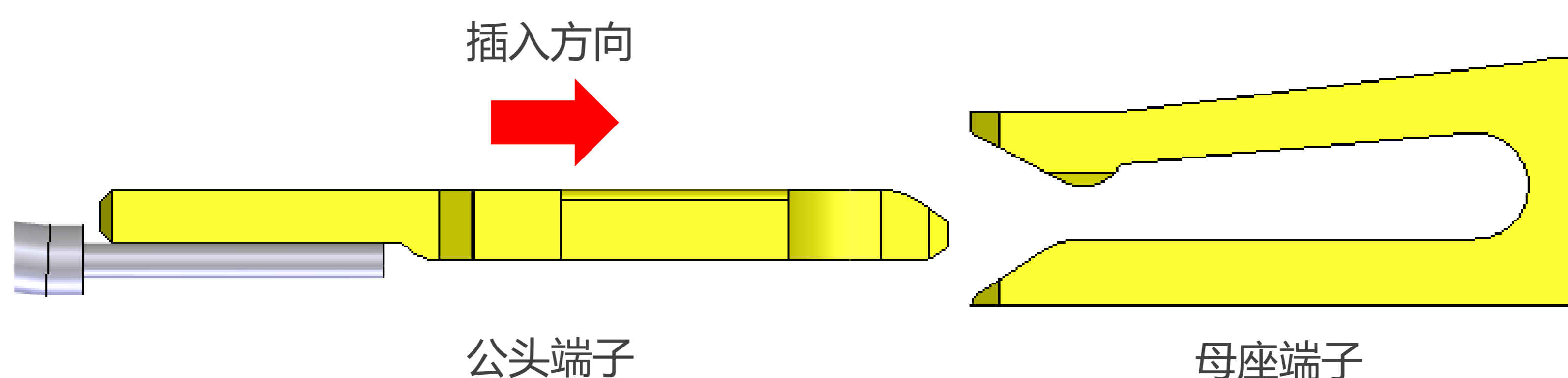
脉冲上升时间：60ps (10-90%)

输入电压：800mVp-p

*如需更多详细内容，请联系I-PEX相关人员。



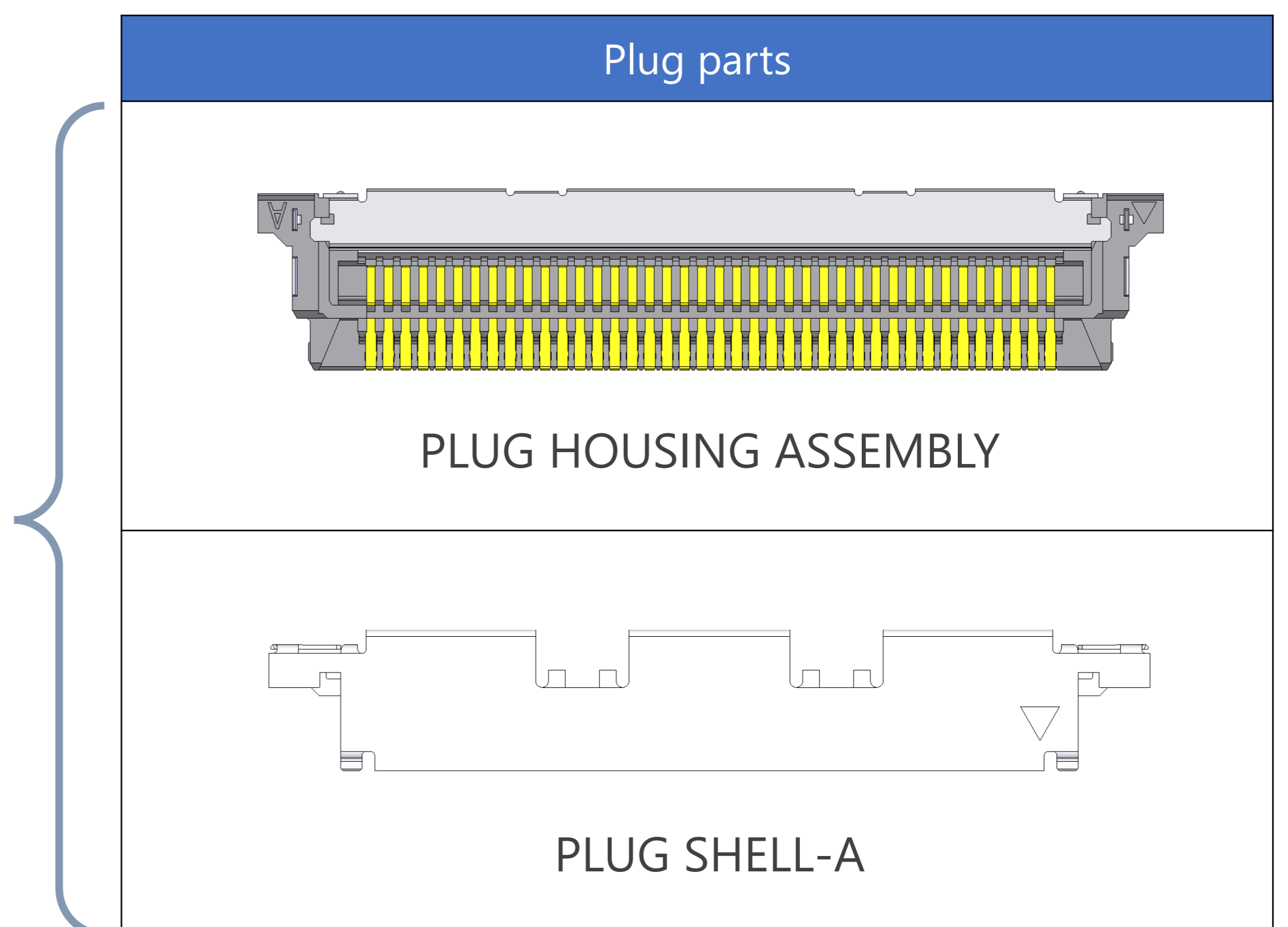
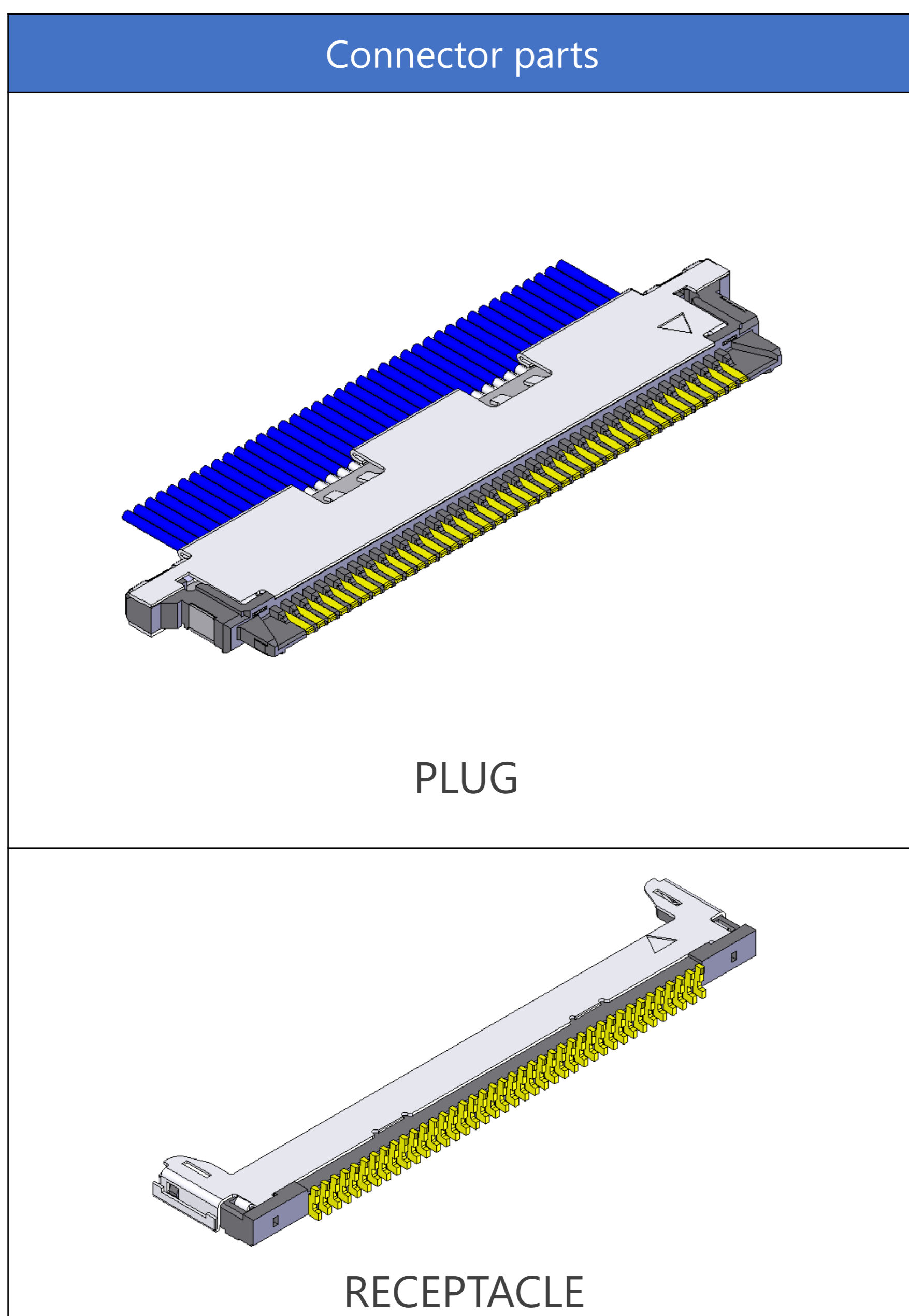
▶ 母座端子采用音叉式设计，插入时可排除异物，导通可靠性强



异物在插入过程中被有效除去

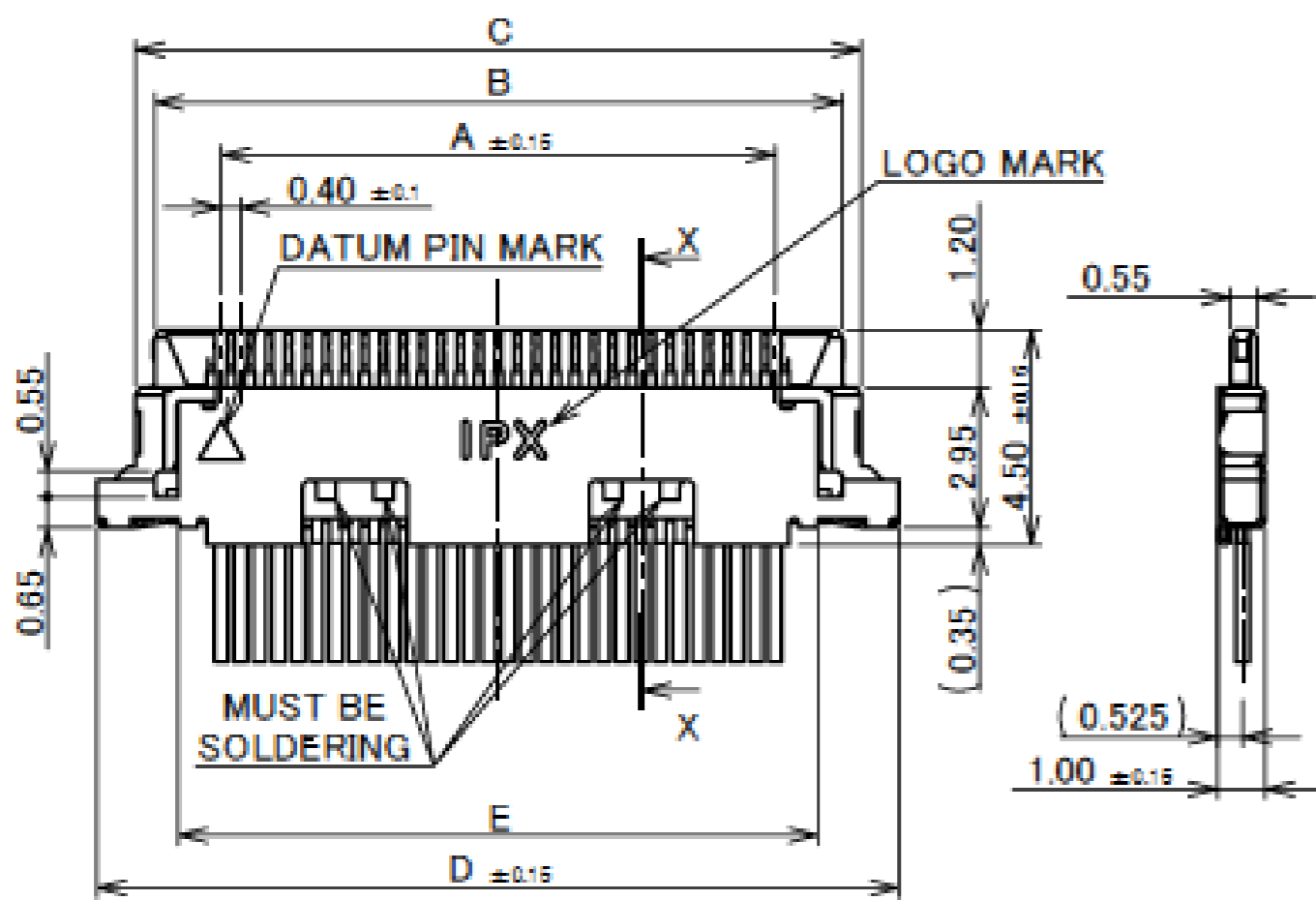
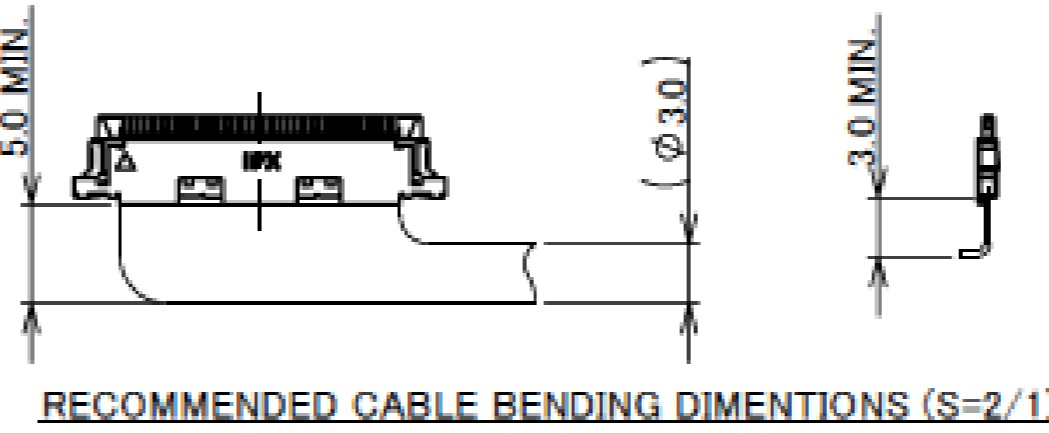
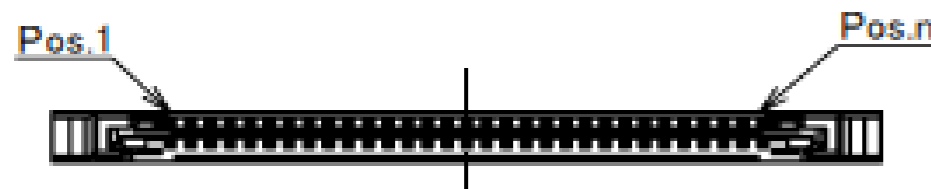
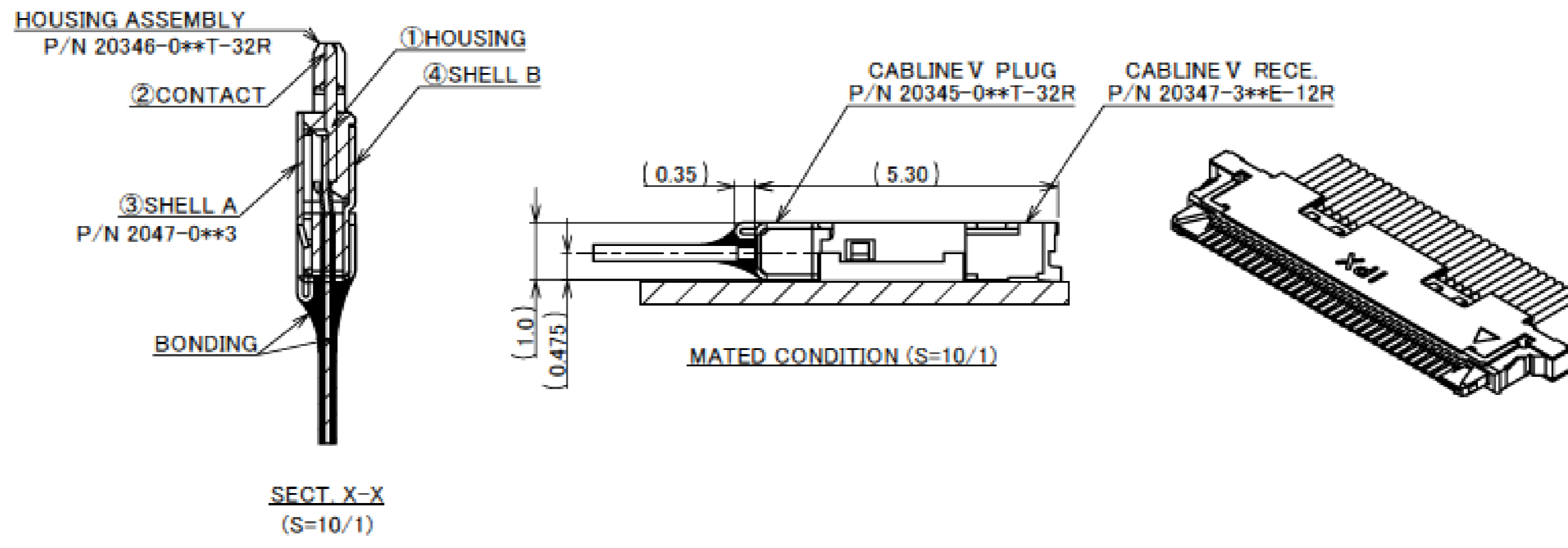
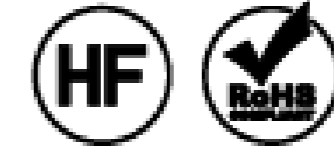
Component Parts Details

Component Parts



Plug for Cable Assembly

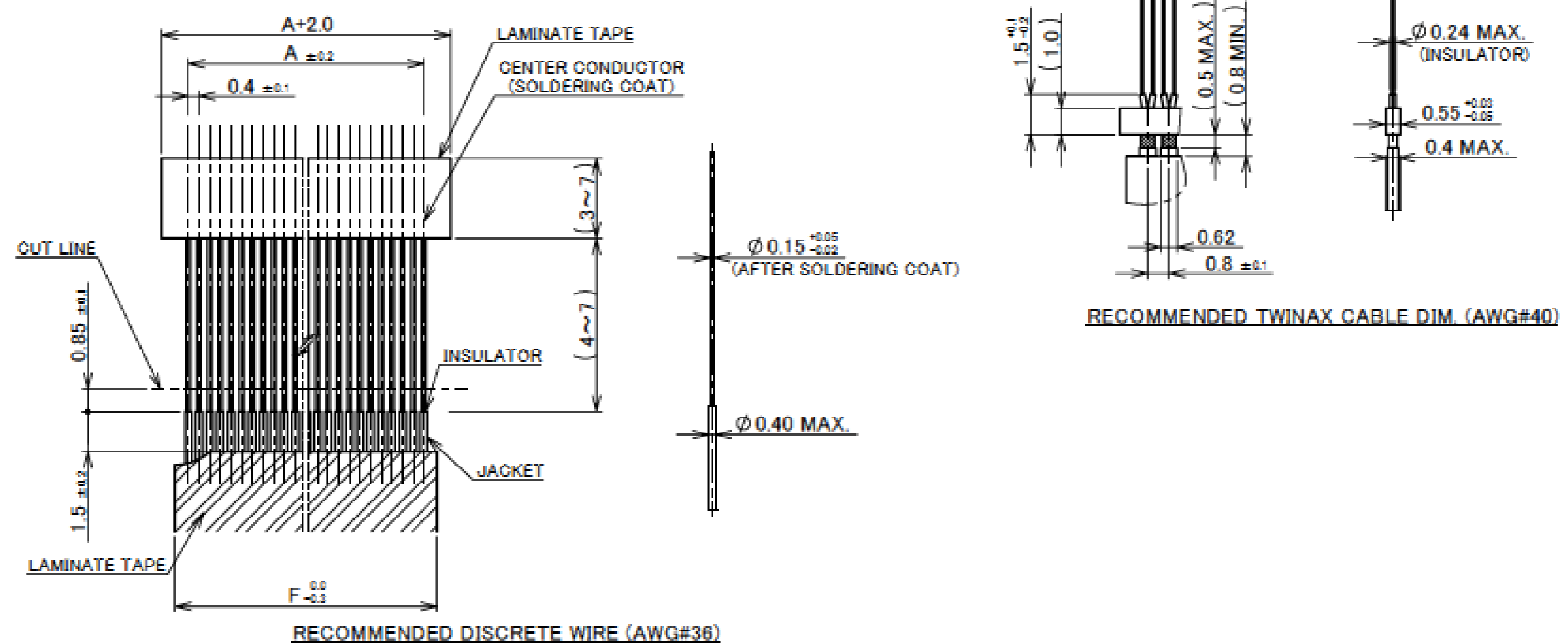
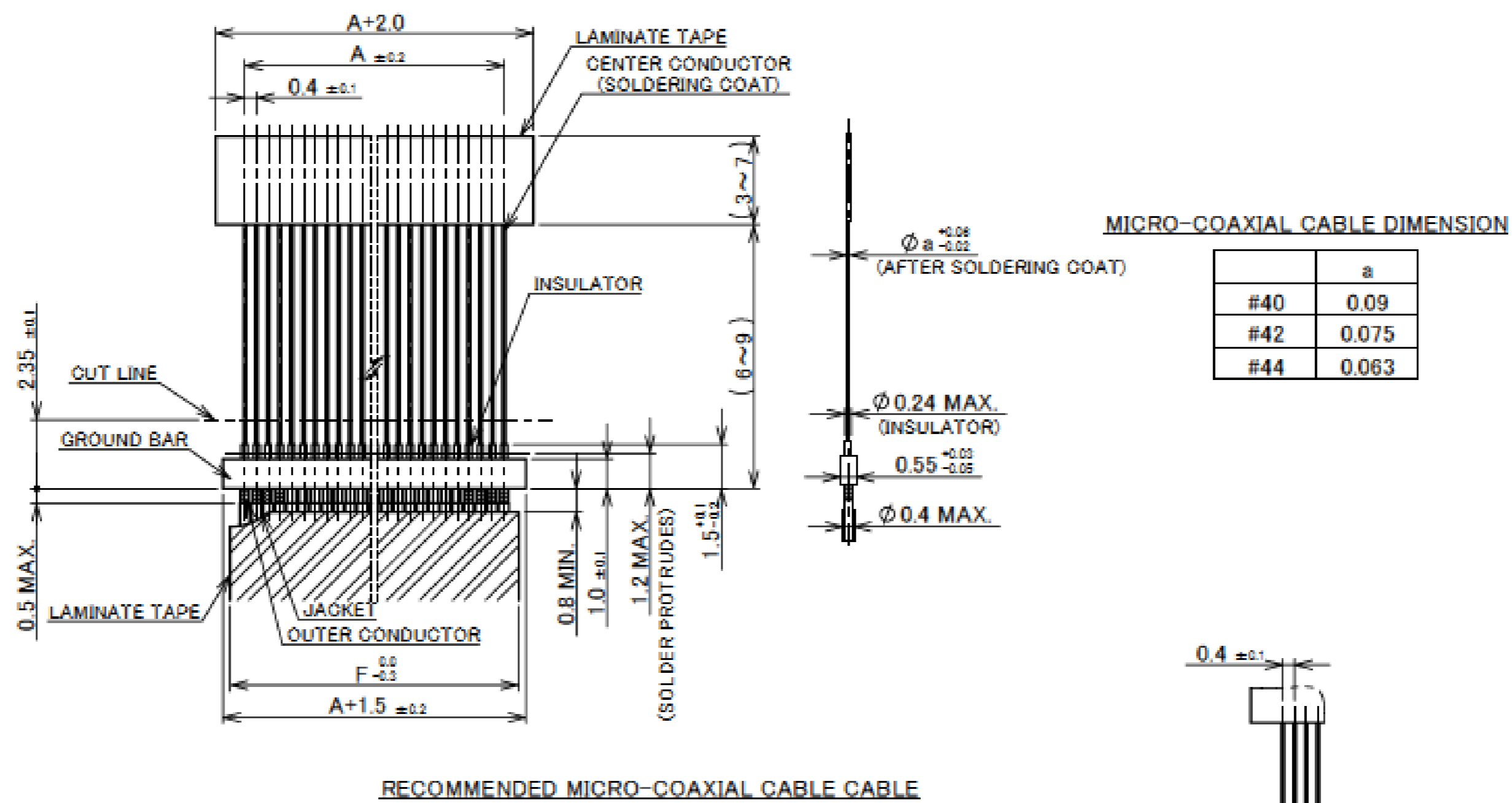
Recommended P/N		20345-0**T-32R				
PART NO.	POS.	A	B	C	D	E
20345-010T-32R	10	3.6	6.4	7.2	8.8	5.4
20345-015T-32R	15	5.6	8.4	9.2	10.8	7.4
20345-020T-32R	20	7.6	10.4	11.2	12.8	9.4
20345-025T-32R	25	9.6	12.4	13.2	14.8	11.4
20345-030T-32R	30	11.6	14.4	15.2	16.8	13.4
20345-035T-32R	35	13.6	16.4	17.2	18.8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



NO	DISCRIPTION	MATERIAL	FINISH , REMARKS
4	SHELL B	PHOSPHOR BRONZE	Sn 1.00 μm MIN. OVER Ni 1.00 μm MIN.
3	SHELL A	SUS	Sn 1.00 μm MIN. OVER Ni 0.50 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

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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



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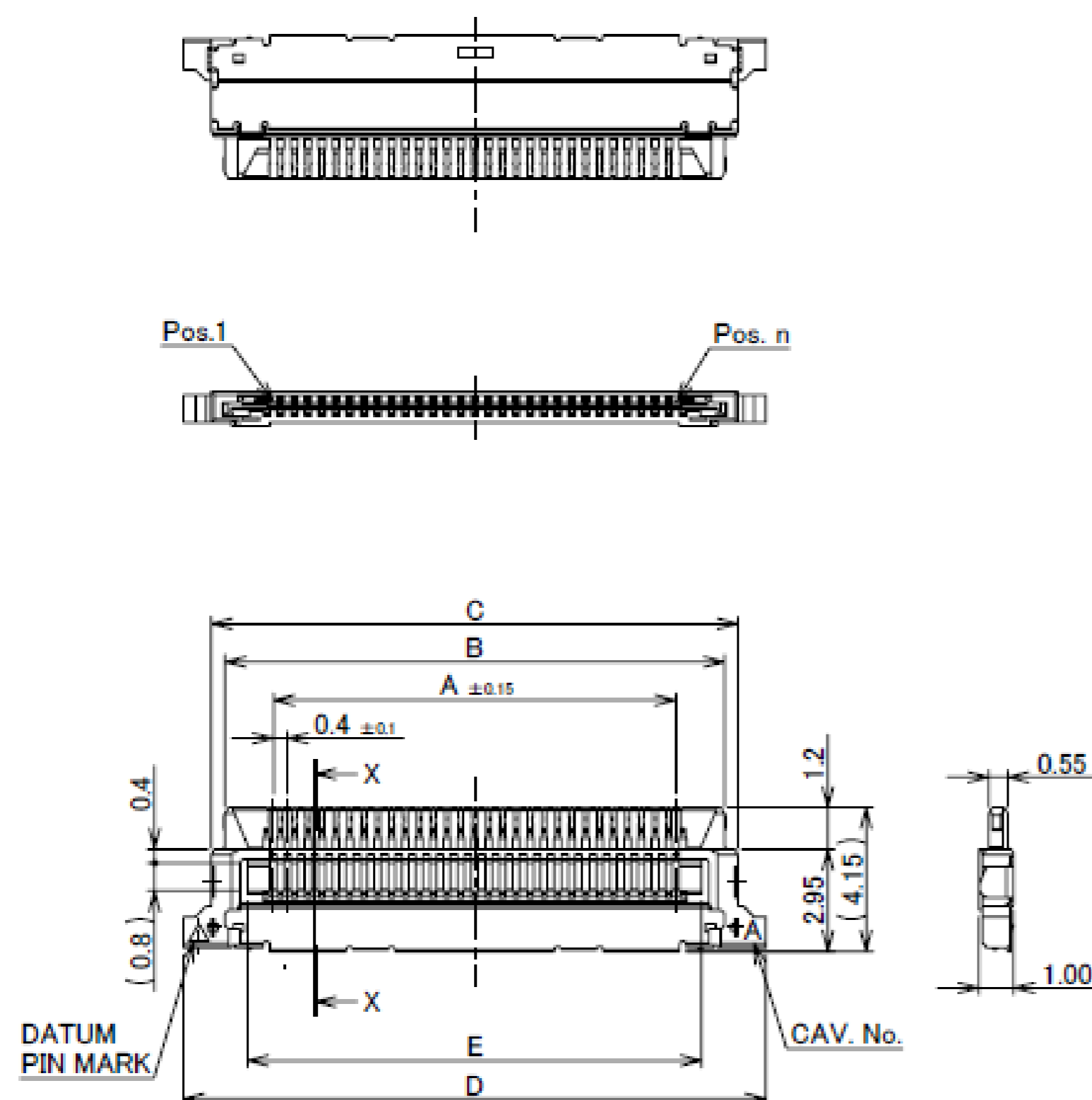
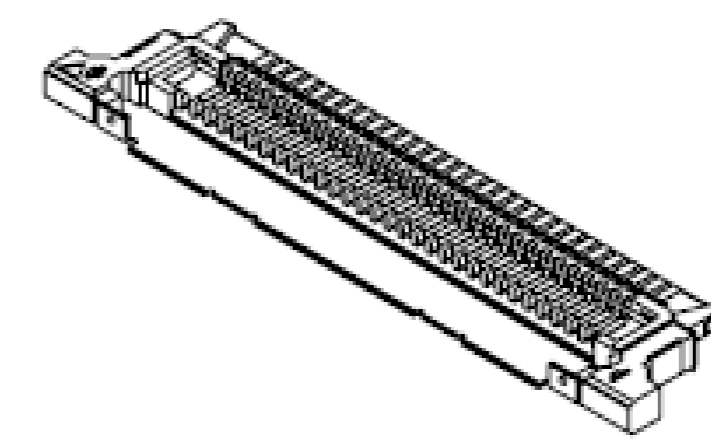
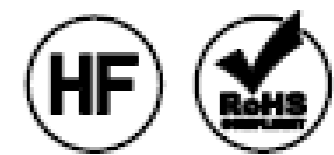
Plug for Cable Assembly

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)
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 : \triangle 140mohm MAX. 560mohm MAX.(AWG#40) 650mohm MAX.(AWG#42) 1040mohm MAX.(AWG#44)
GROUND SHELL RESISTANCE	INITIAL : 50mohm MAX. / AFTER TEST : \triangle 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. 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.28

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

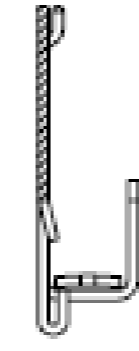
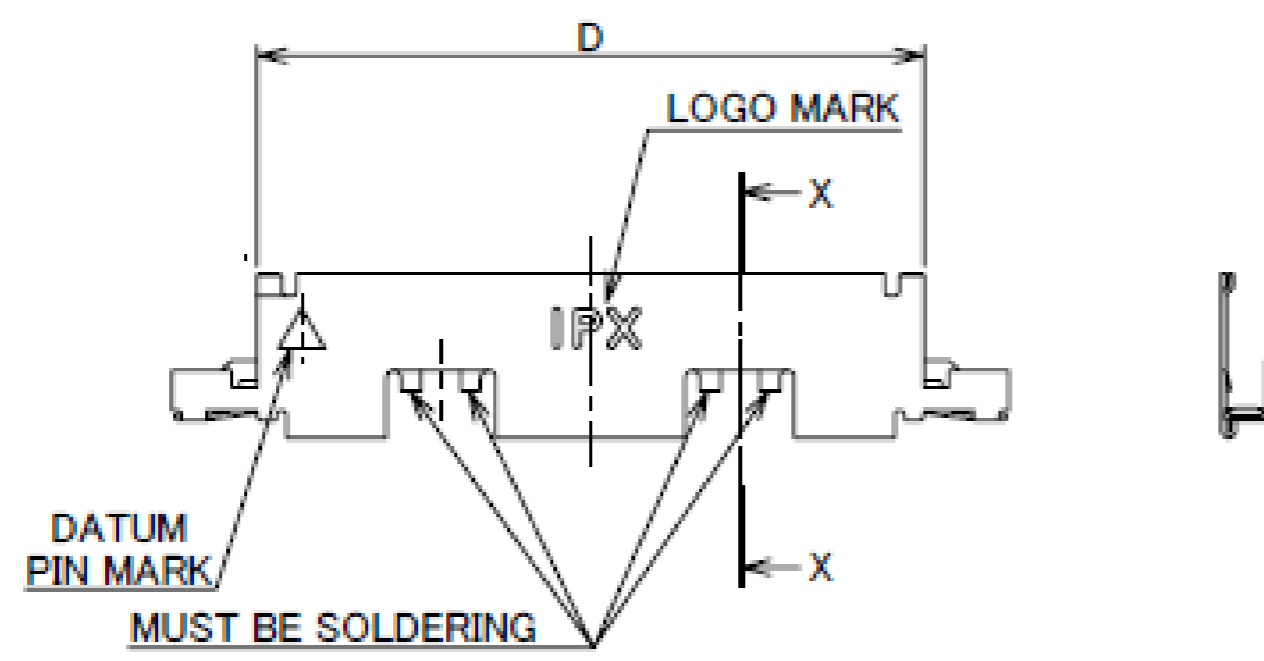
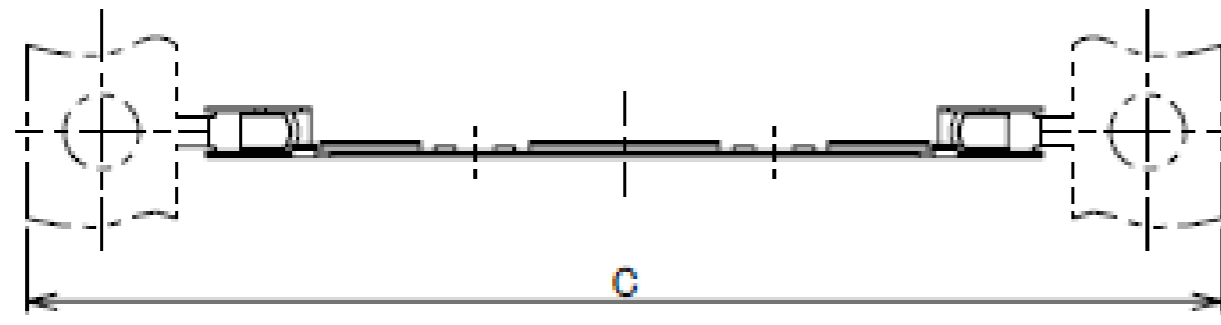
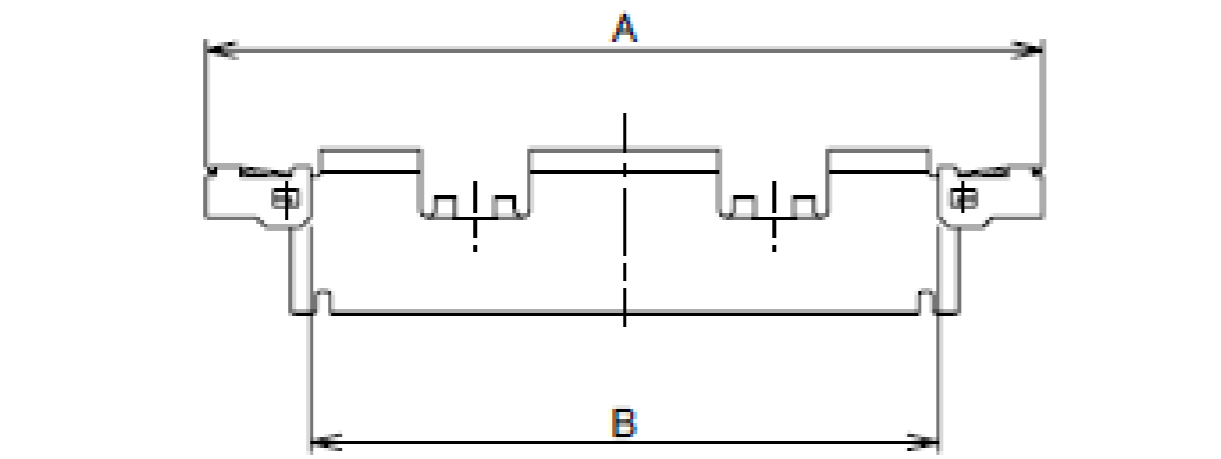
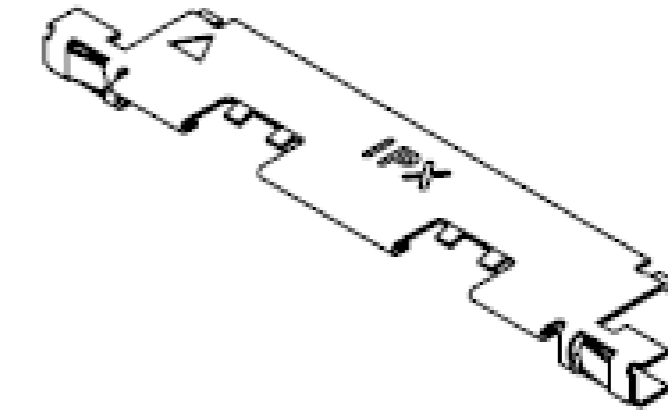
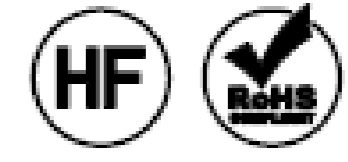


NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
3	SHELL B	PHOSPHOR BRONZE	Sn 1.00 μ m OVER Ni 1.00 μ m MIN.
2	CONTACT	BRASS	ALL OVER: Ni 1.00 μ m MIN. UNDER PLATING CONTACT AREA: Au 0.10 μ m MIN. SOLDERING AREA: Au 0.03 μ m MIN.
1	HOUSING	LCP	UL94V-0, BRACK

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	



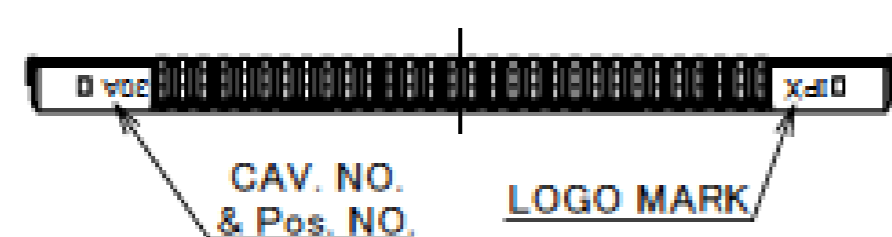
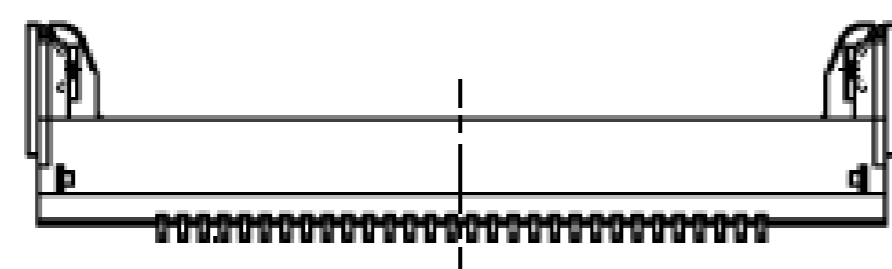
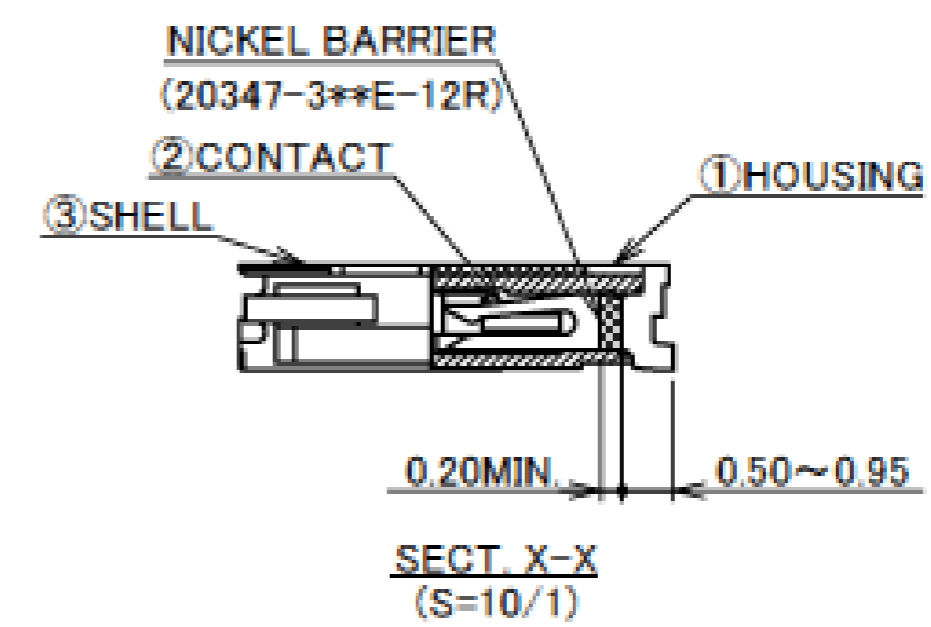
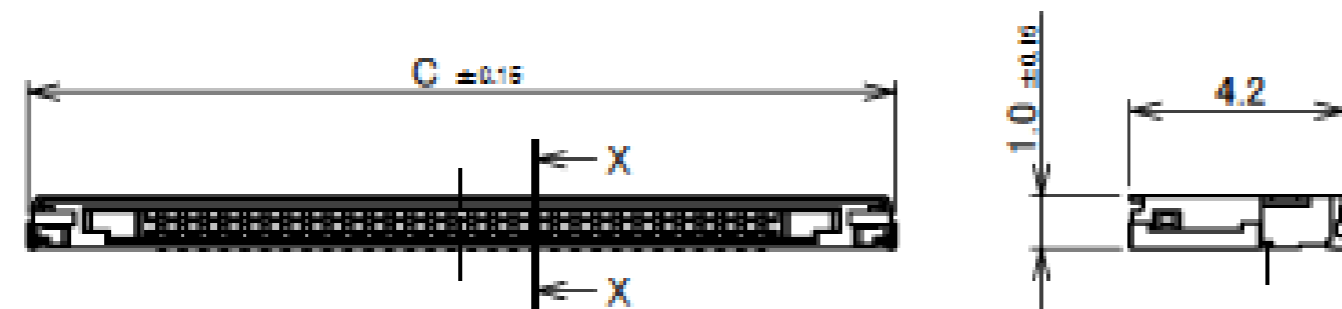
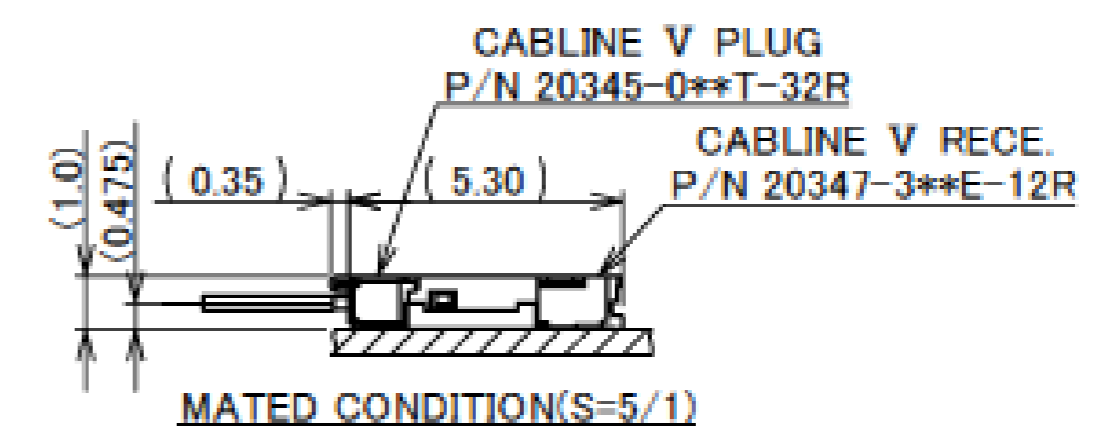
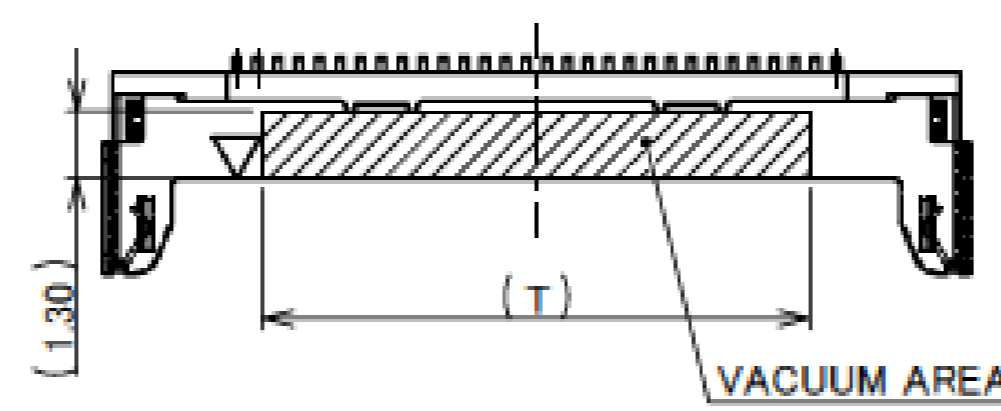
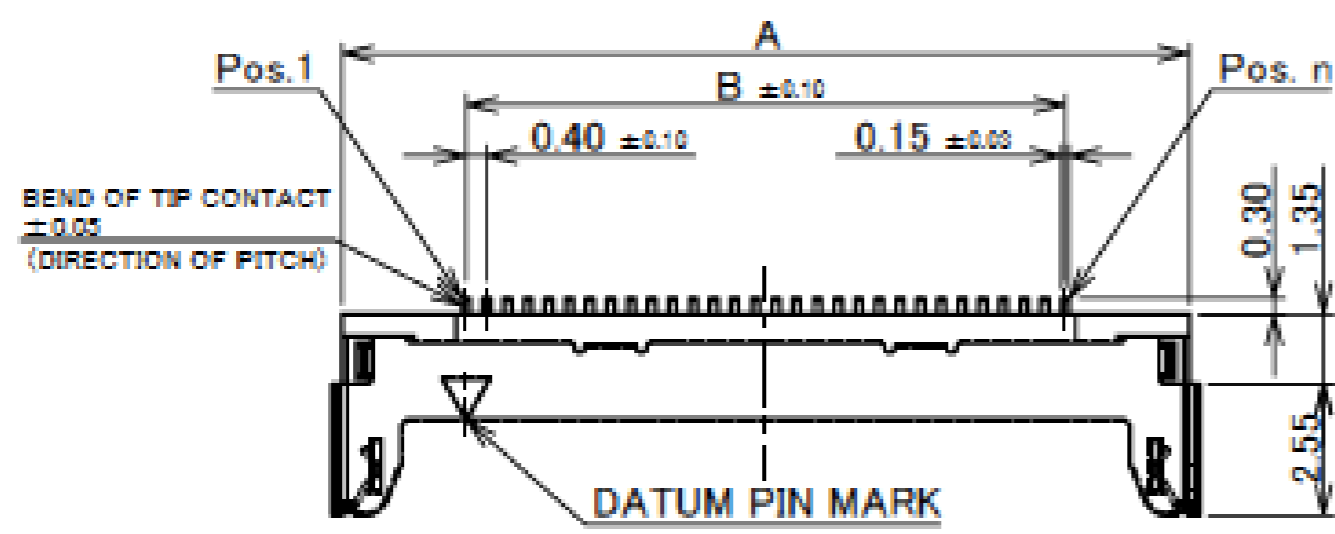
SECT. X-X
(S=10/1)

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

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

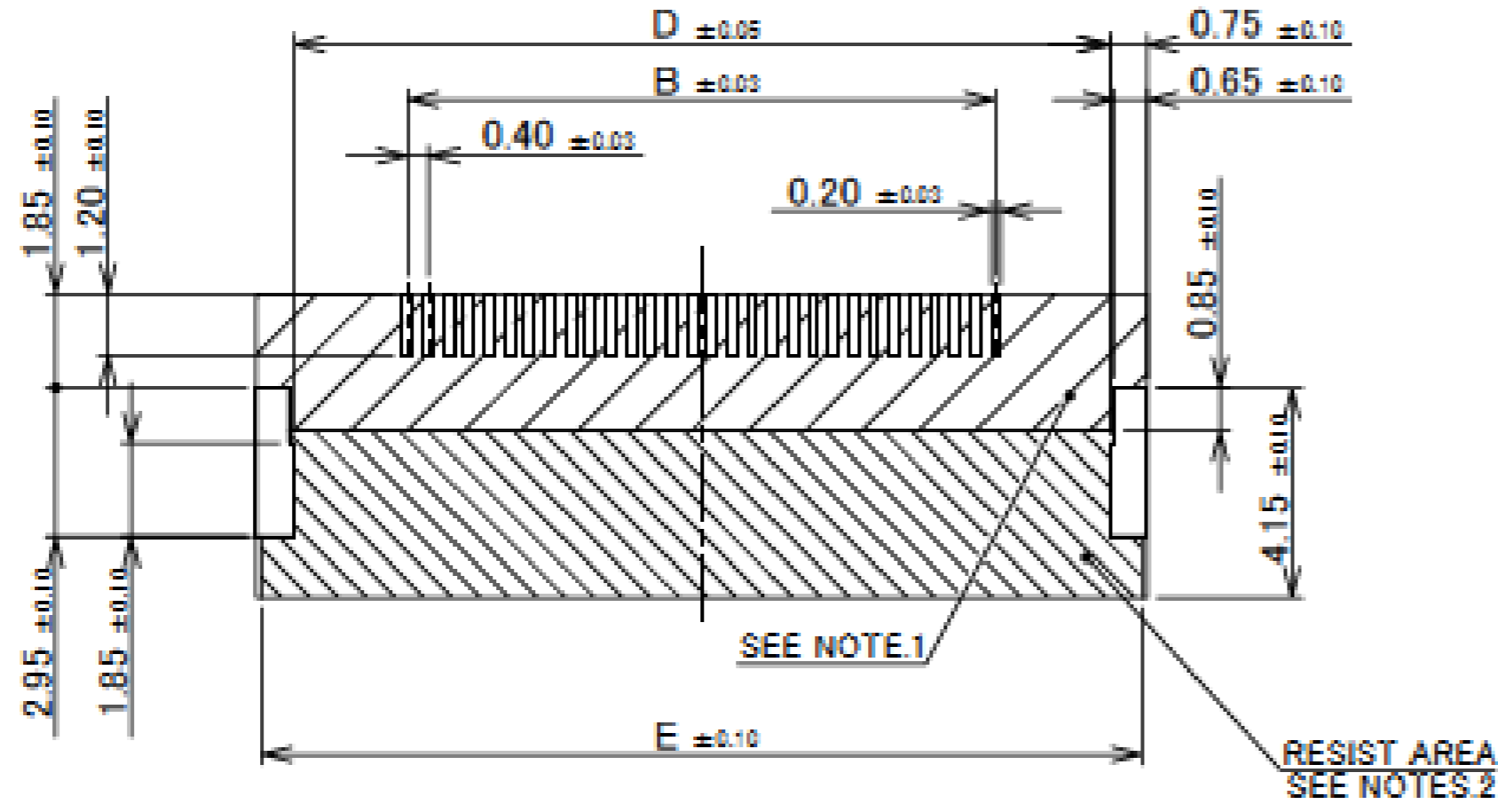


NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
3	SHELL	PHOSPHOR BRONZE	Sn 1.00 μ m MIN. OVER Ni 1.00 μ m MIN.
2	CONTACT	PHOSPHOR BRONZE	ALL OVER: Ni 1.00 μ m MIN. UNDER PLATING CONTACT AREA: Au 0.10 μ m MIN. SOLDERING AREA: Au 0.03 μ m MIN.
1	HOUSING	LCP	UL94V-0, BRACK

Rev.36

Receptacle Assembly

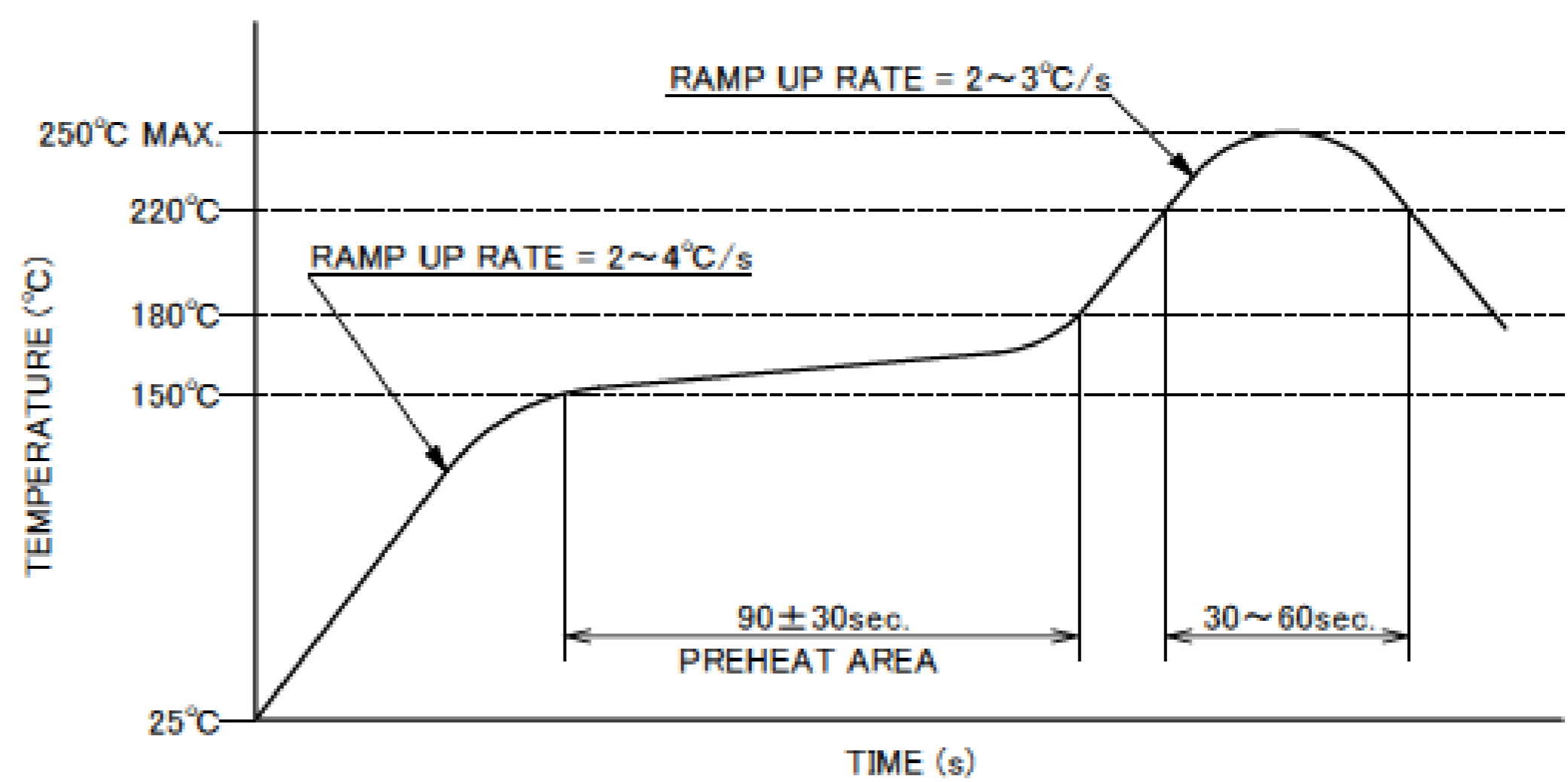
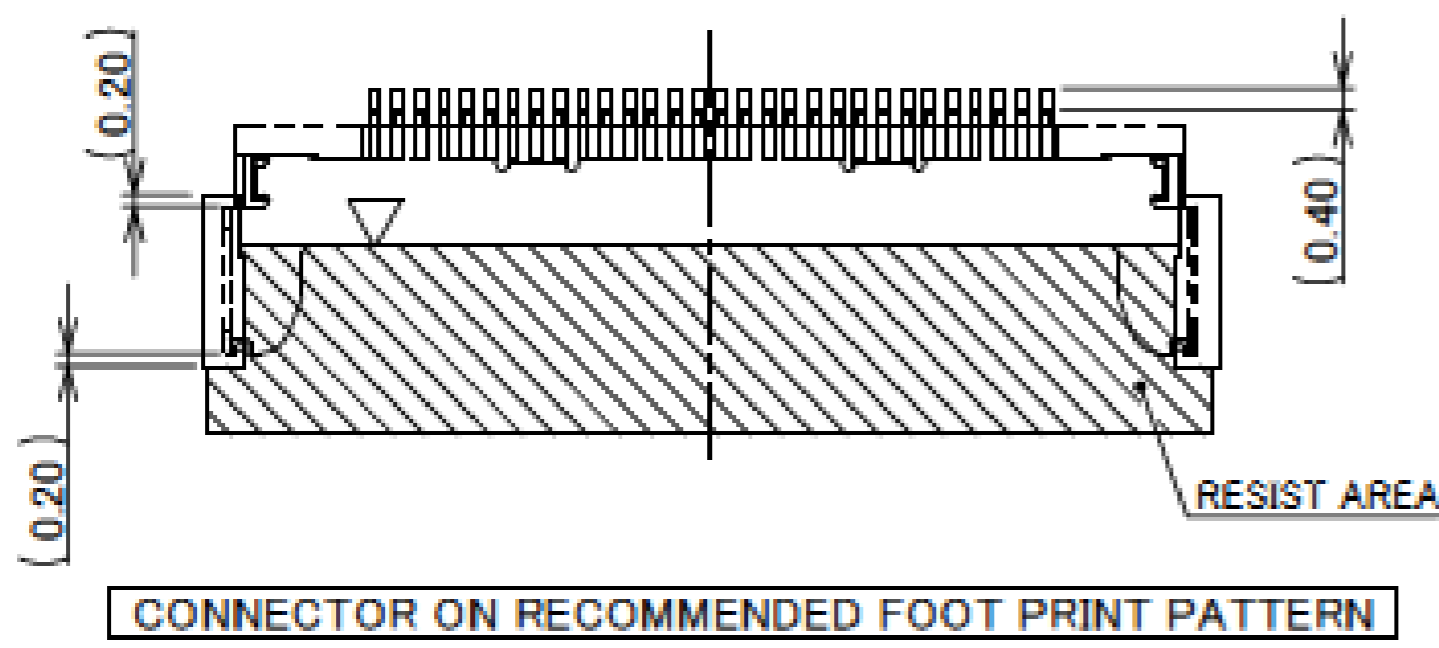
PART NO.	POS.	B	D	E
20347-310E-12R	10	3.60	8.10	9.40
20347-315E-12R	15	5.60	10.10	11.40
20347-320E-12R	20	7.60	12.10	13.40
20347-325E-12R	25	9.60	14.10	15.40
20347-330E-12R	30	11.60	16.10	17.40
20347-335E-12R	35	13.60	18.10	19.40
20347-340E-12R	40	15.60	20.10	21.40



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.36



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

Rev.36

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°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 235mohm MAX.(AWG#36) / AFTER TEST : \triangleleft40mohm MAX. 560mohm MAX.(AWG#40) 650mohm MAX.(AWG#42) 1040mohm MAX.(AWG#44)
GROUND SHELL RESISTANCE	INITIAL : 50mohm MAX. / AFTER TEST : \triangleleft40mohm 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***


Rev.36

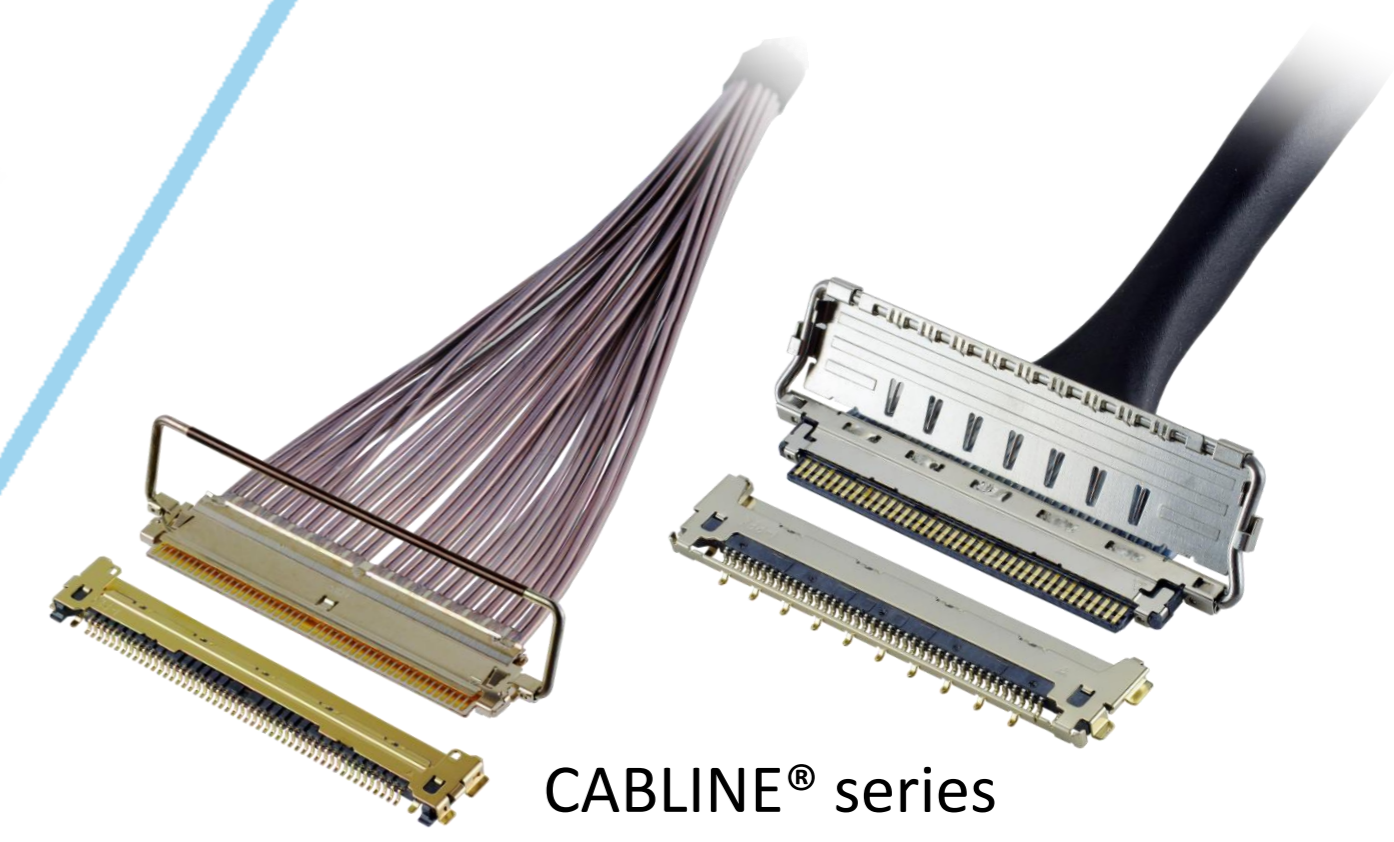
Custom Connectors Available

 RF Connector

MHF® series



 CABLINE® series
Micro-coaxial/Twinax/
Discrete Wire Connector



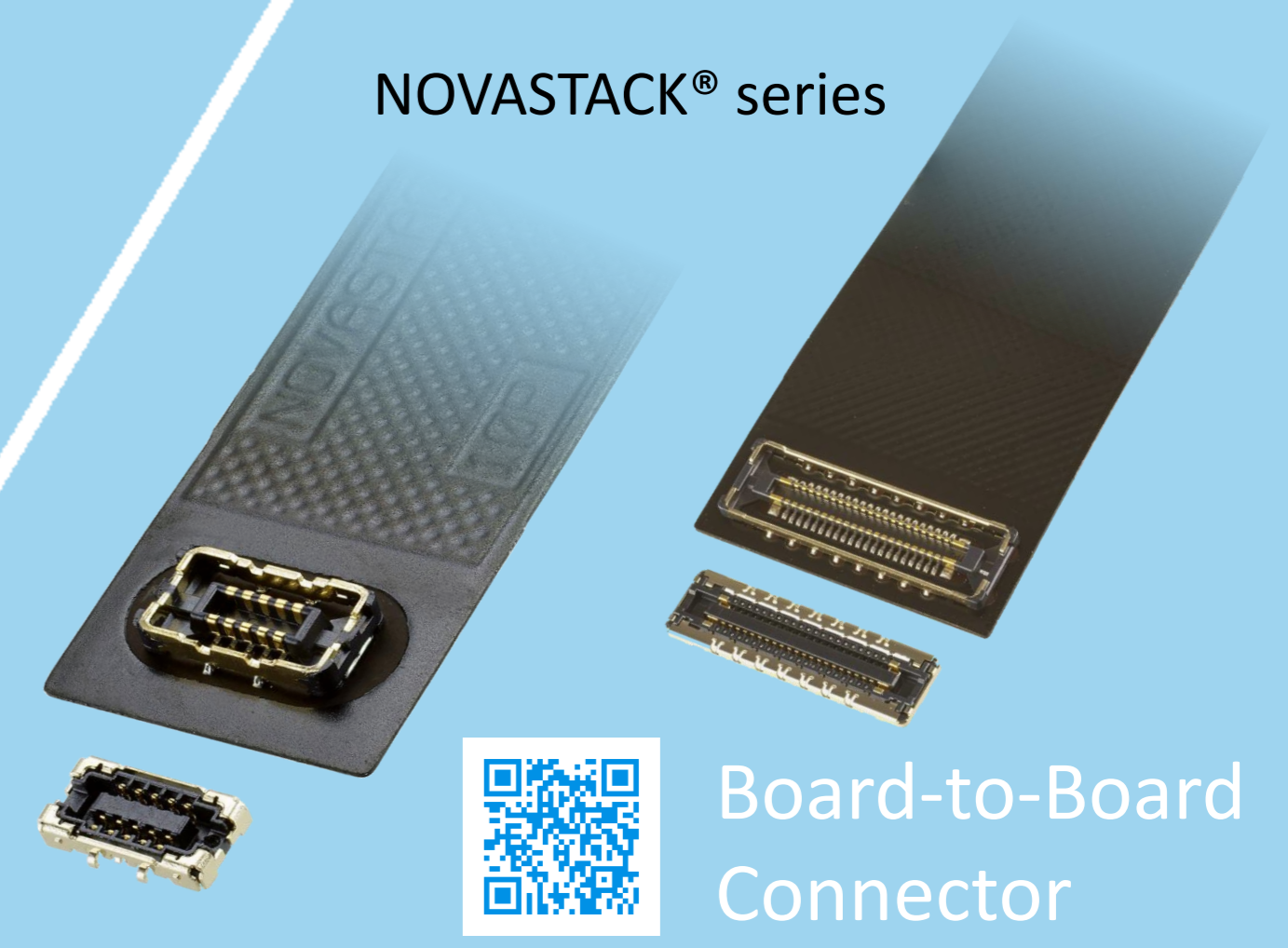
 Optical Module

LIGHTPASS® series



NOVASTACK® series

 Board-to-Board Connector



 Power Connector/
Terminal

AP series

ISH® series



MINIFLEX® series

EVAFLEX® series

 FPC FFC Connector

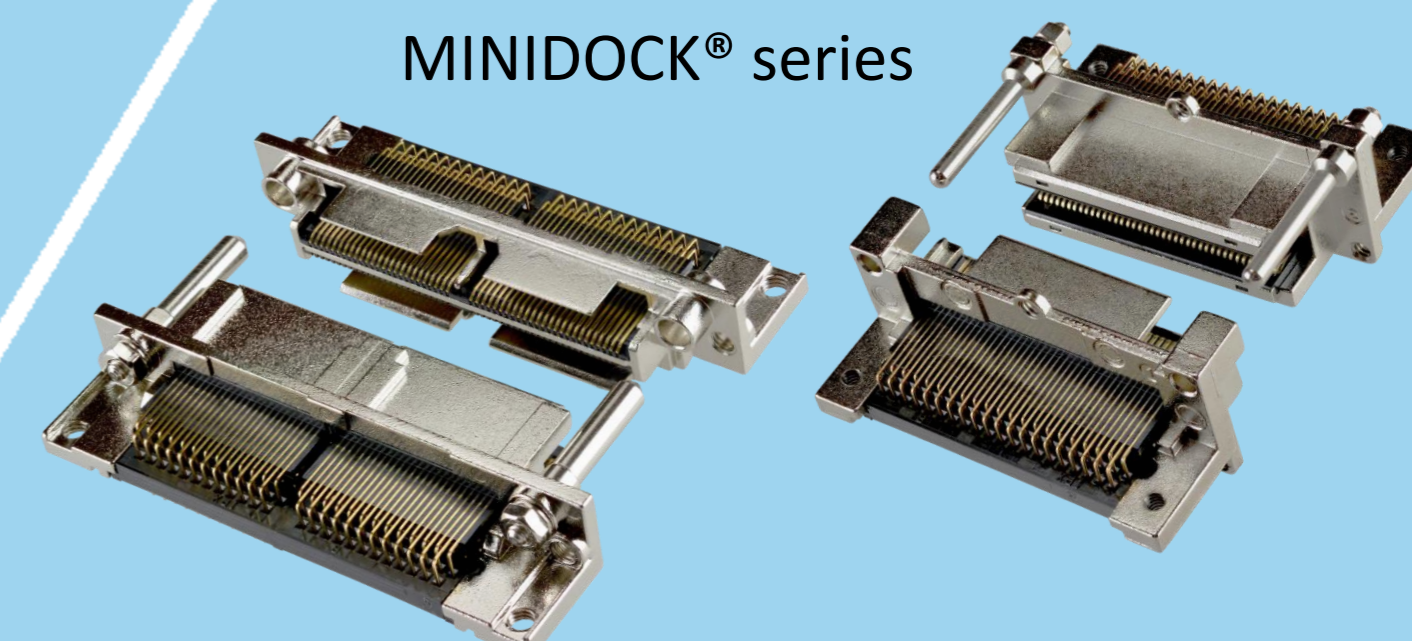


Inquiry



MINIDOCK® series

 I/O Connector



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Contact your sales representative or more detailed information.

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I-PEX

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