

ISH[®] (Horizontal Type-Hybrid)

耐高温・耐振動性に優れたパワー端子付水平嵌合SMTコネクタ

Product Specifications:		Signal	Power
Pitch (mm max.)		2.0	
Contact Size (mm)		0.5 × 0.4 (020)	1.5 × 0.64 (060)
Mated Height (mm max.)		13.60	
Width formula (mm)		13.0+1.0*pin	
Operating Temperature		-40 - 125°C	
Vibration Resistance		10G	
Current Rating		4.5A per pin	7.0A per pin
Voltage Rating		100V	
Withstand Voltage		AC 1000V/minute	
Plating		Sn	
Housing		Male:glass-filled LCP, Female:PBT	
Pin counts	Range	Up to 40	
	Available	20, 28	

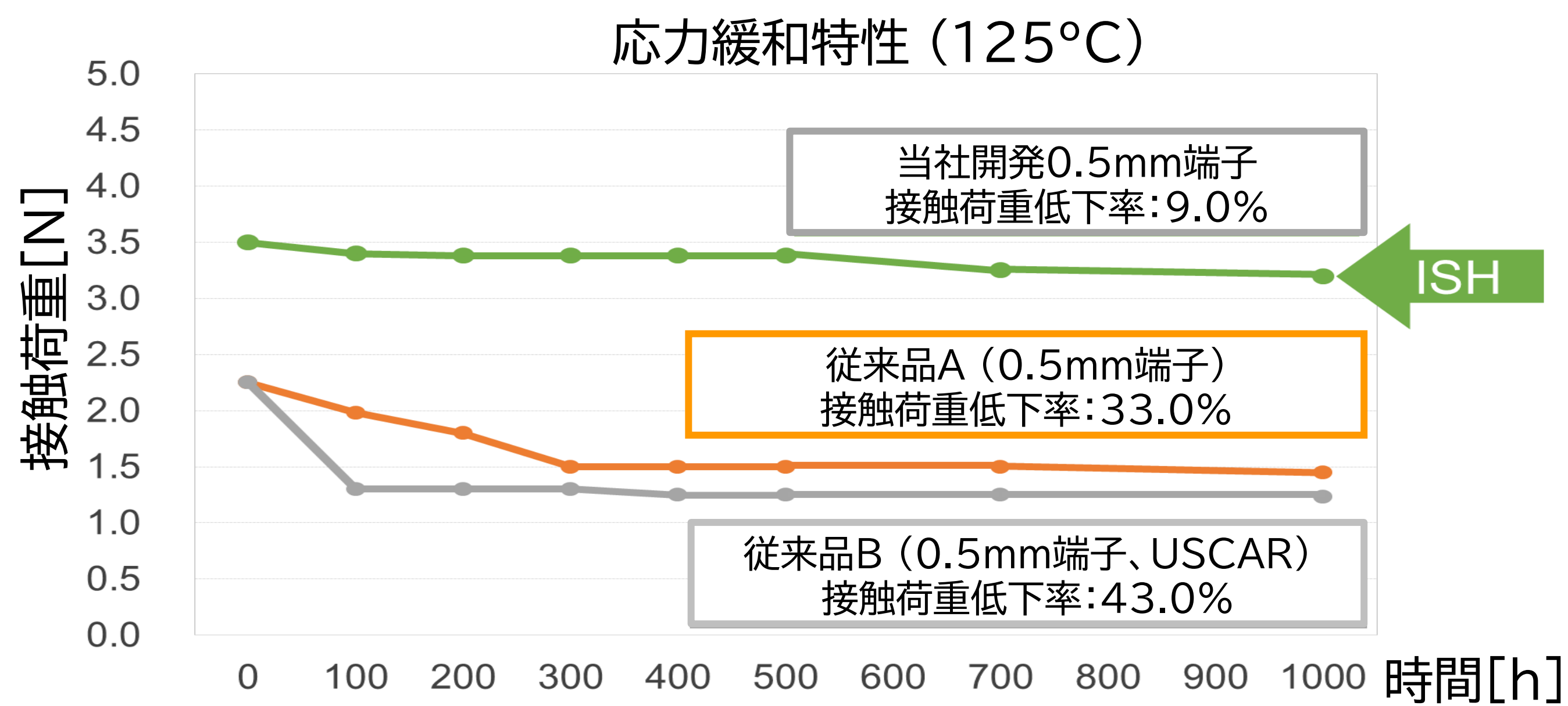
Applicable Cable Size:

Signal: AWG#22,#20
 *Insulation Diameter 1.6 mm max.
 Power: AWG#20
 *Insulation Diameter 1.9 mm max.

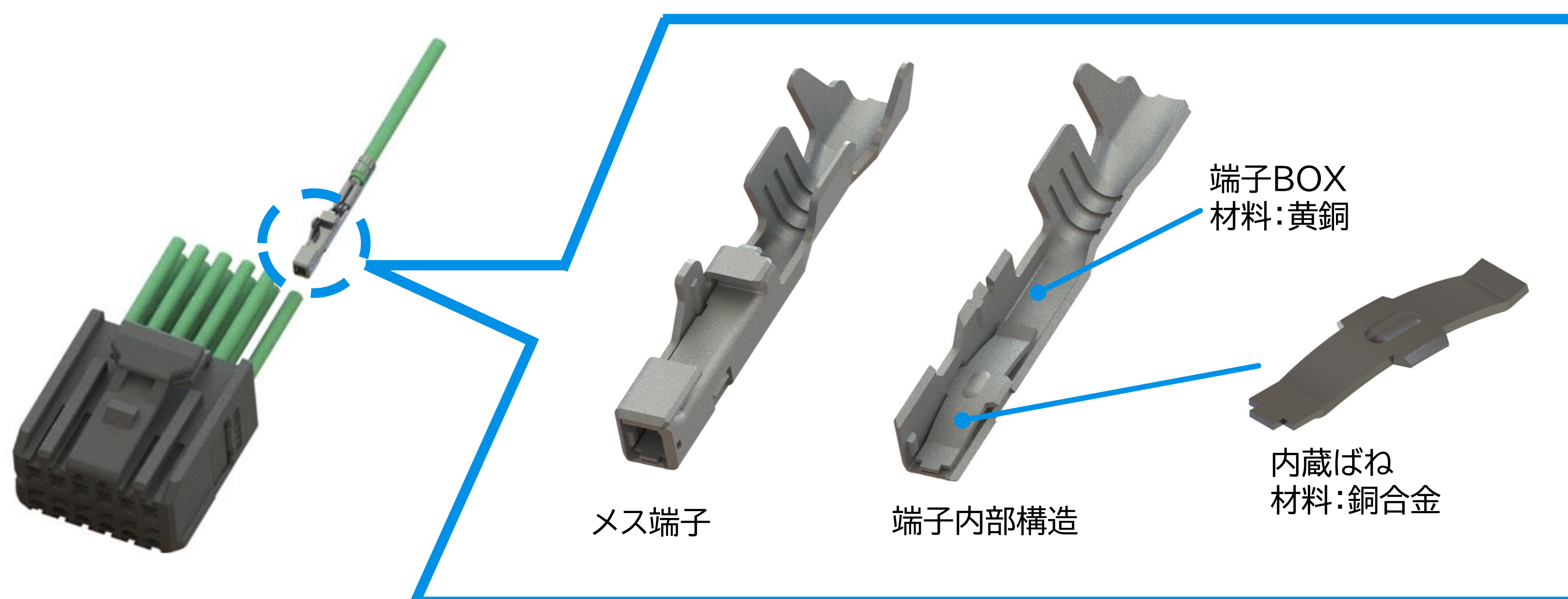


*記載のない極数の対応状況についてはお問い合わせください。

▶ 高い接触信頼性を求める機器に最適な優れた耐高温性・耐振動性



▶ 独自のバネ構造端子による高い長期接触信頼性



▶ 各種車載スパックに適合、高温・振動環境の産業用途等に最適 USCAR-2規格準拠品もラインアップ

車載機器



- ・ヘッドランプ & その他車載照明機器
- ・インバータ & DC/DCコンバータ
- ・バッテリーコントロールモジュール
- ・フロント/リアカメラECU
- ・車載インフォテインメント

その他機器



- ・オフロード車 (ATV/UTV車、QUAD車、3輪車)
- ・トラック、農機・建機(油圧ショベル、建機用ローダー)
- ・工場自動化

USCAR-2規格準拠が必要な機器
 USCAR-2準拠品番については[弊社ホームページ](#)にてご確認ください

Component Parts Details

ISH® (Horizontal Type-Hybrid) MALE (20P):

PART NO.	KEY CODING
V0123-020E-01	KEY CODING - A
V0123-020E-11	KEY CODING - B

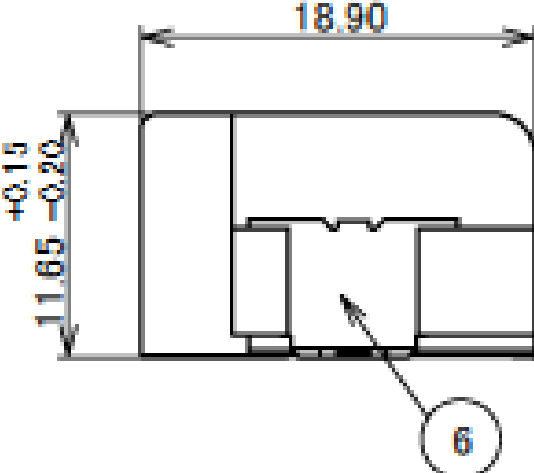
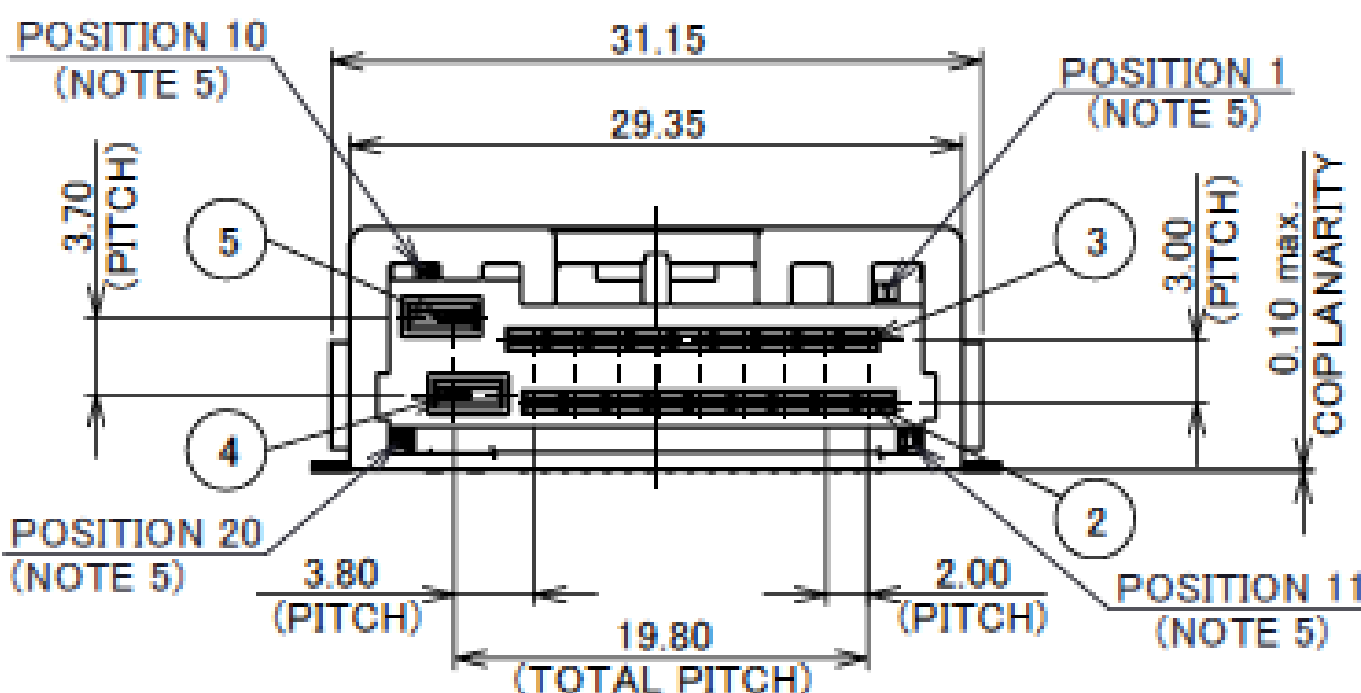
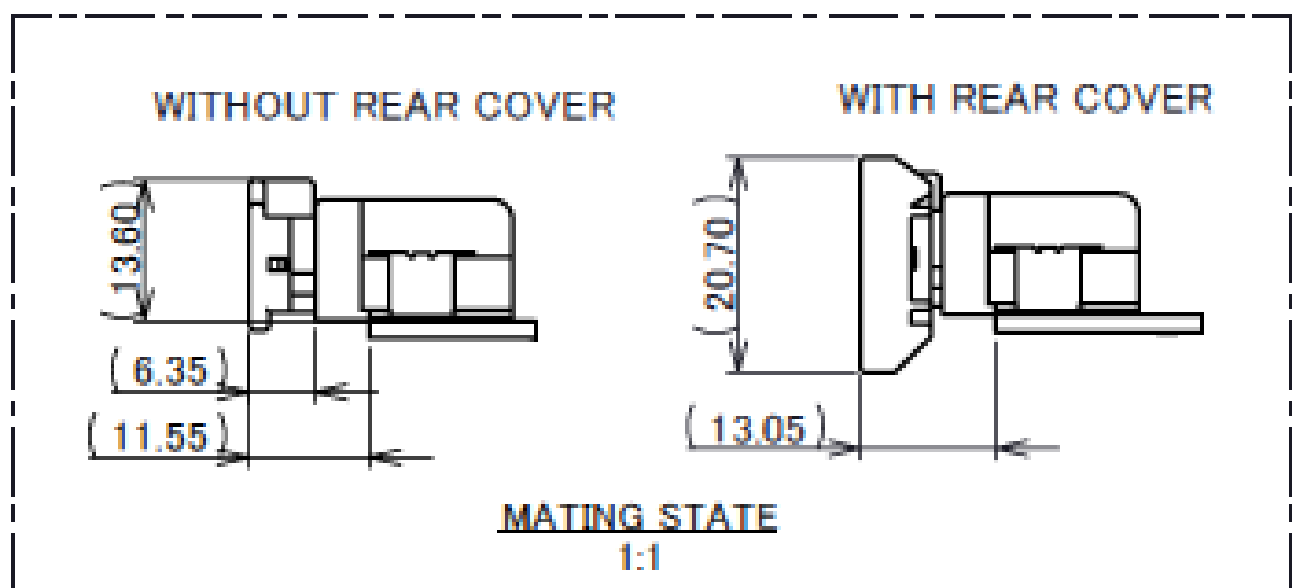
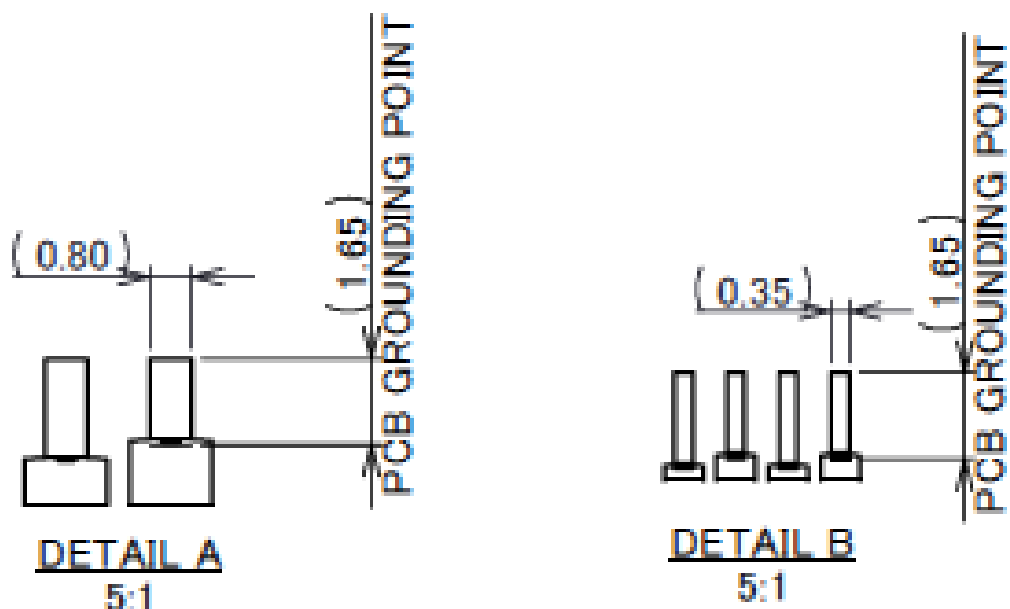
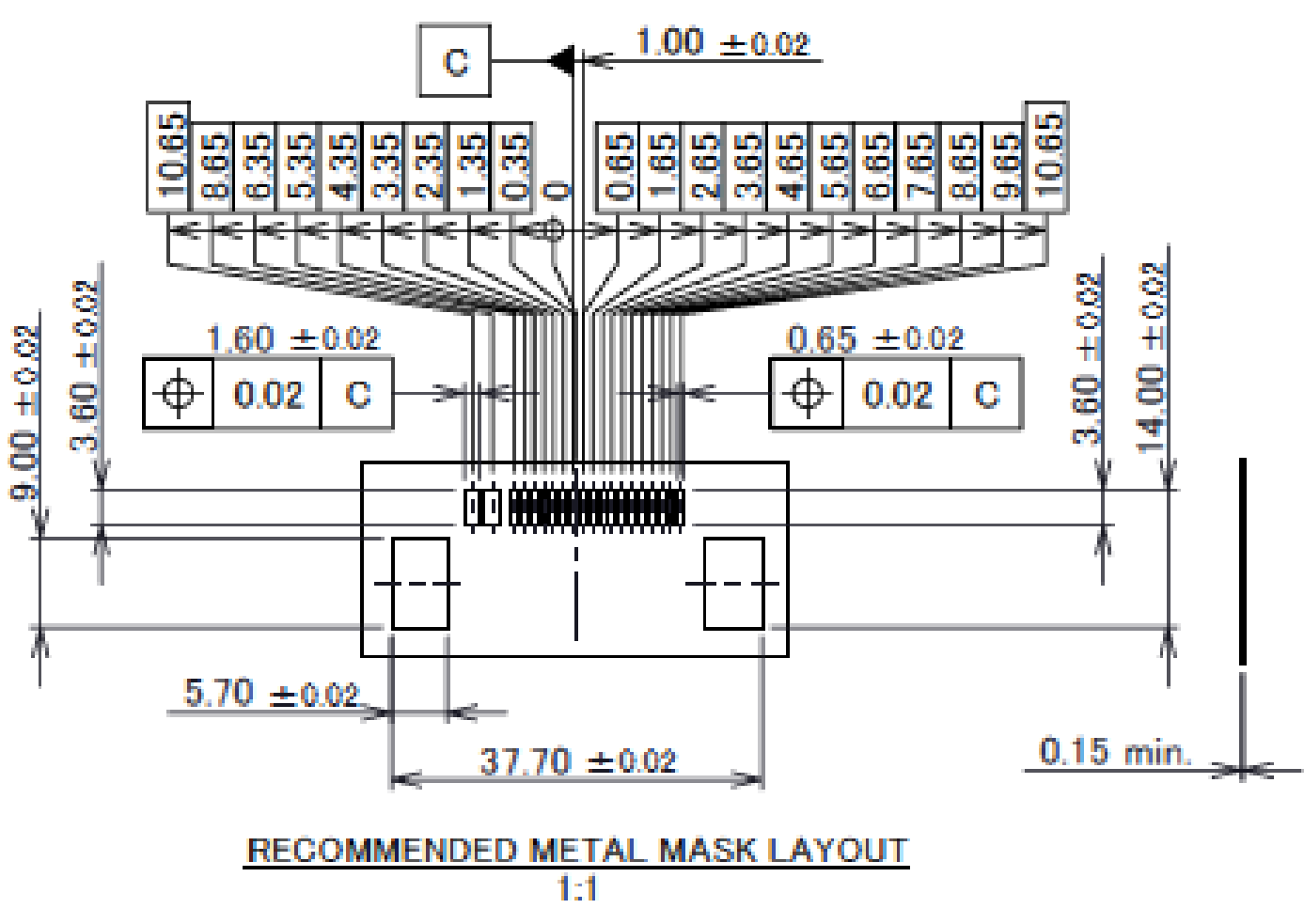
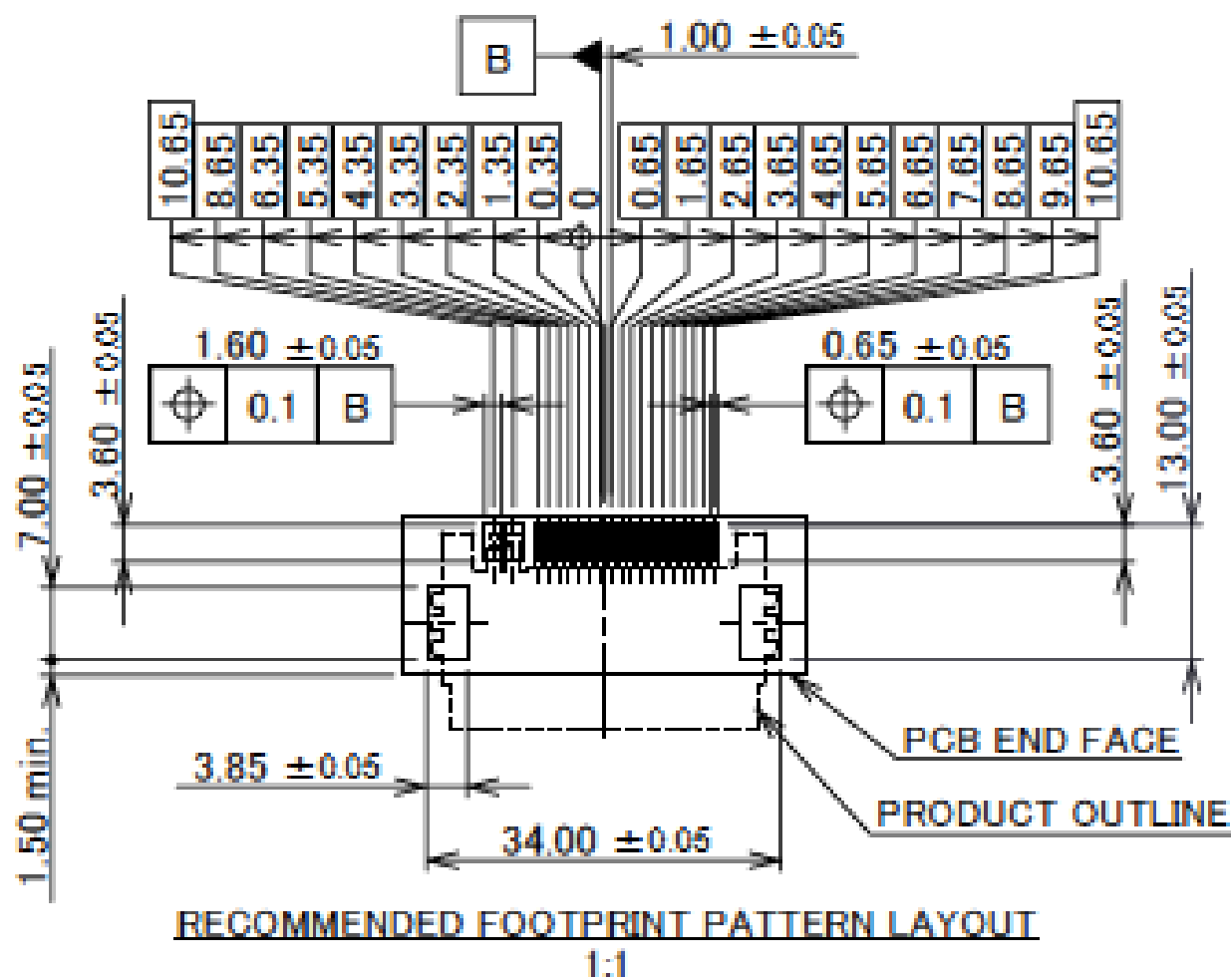
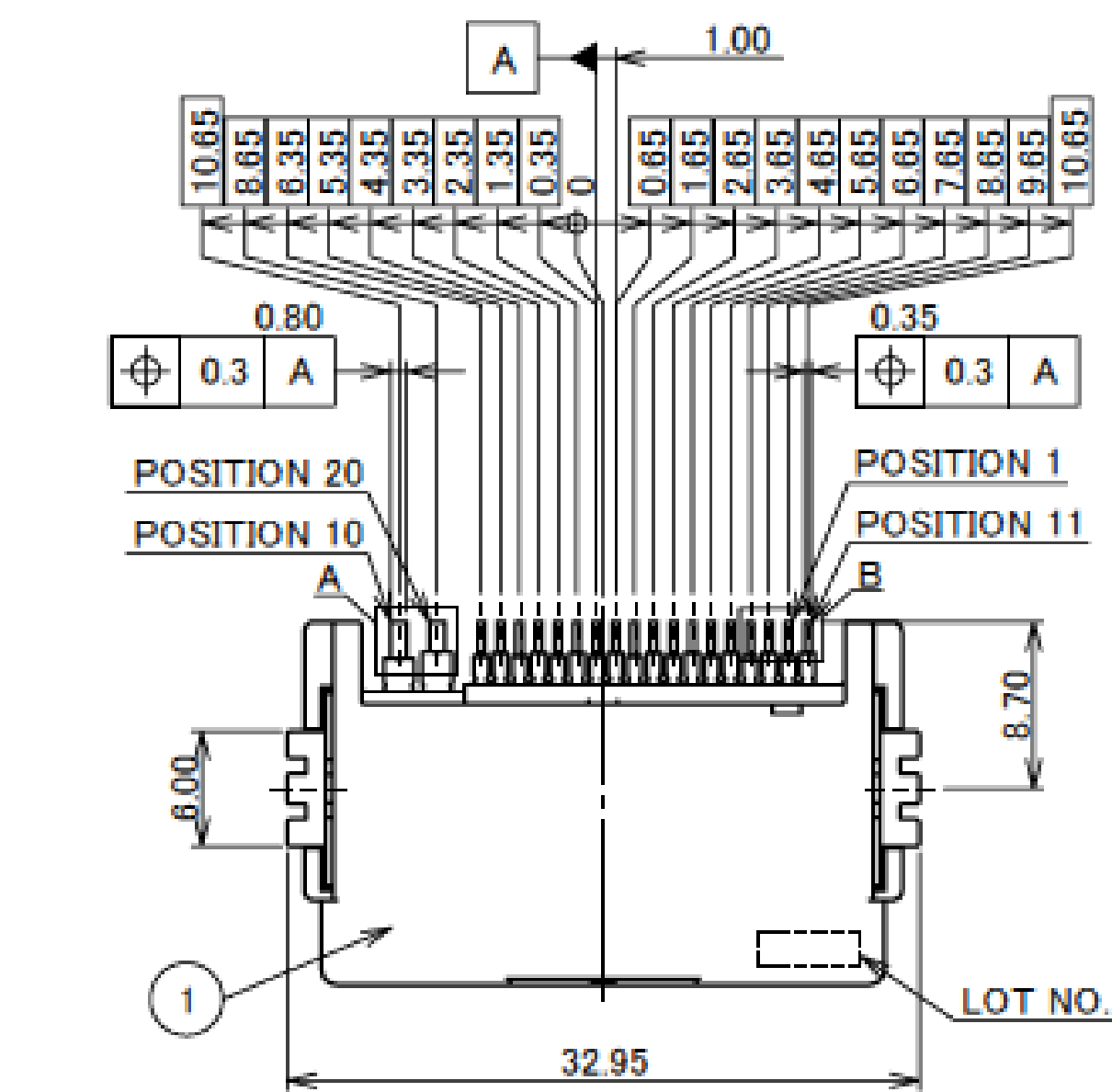
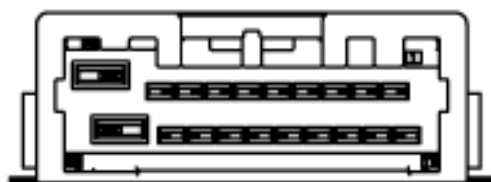


TABLE 1. COUNTERPARTS FOR MATING

MALE CONNECTOR			FEMALE CONNECTOR		FEMALE TERMINAL		REAR COVER	
KEY CODING	PART NO.	COLOR	PART NO.	COLOR	PART NO.	FINISH	PART NO.	FINISH
KEY CODING-A	V0123-020E-01	BLACK	V0124-020B-01	BLACK	VT008-02 & VT011-02	Sn REFLOW	V0124-84020-01	BLACK
KEY CODING-B	V0123-020E-11	NATURAL	V0124-020B-11	NATURAL				

6	HOLD DOWN	BRASS	Sn REFLOW
5	1.5mm MALE TERMINAL-2	BRASS	Sn REFLOW
4	1.5mm MALE TERMINAL-1	BRASS	Sn REFLOW
3	0.5mm MALE TERMINAL-2	BRASS	Sn REFLOW
2	0.5mm MALE TERMINAL-1	BRASS	Sn REFLOW
1	MALE HOUSING	GLASS-FILLED LCP	BLACK OR NATURAL /UL94V-0
NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS

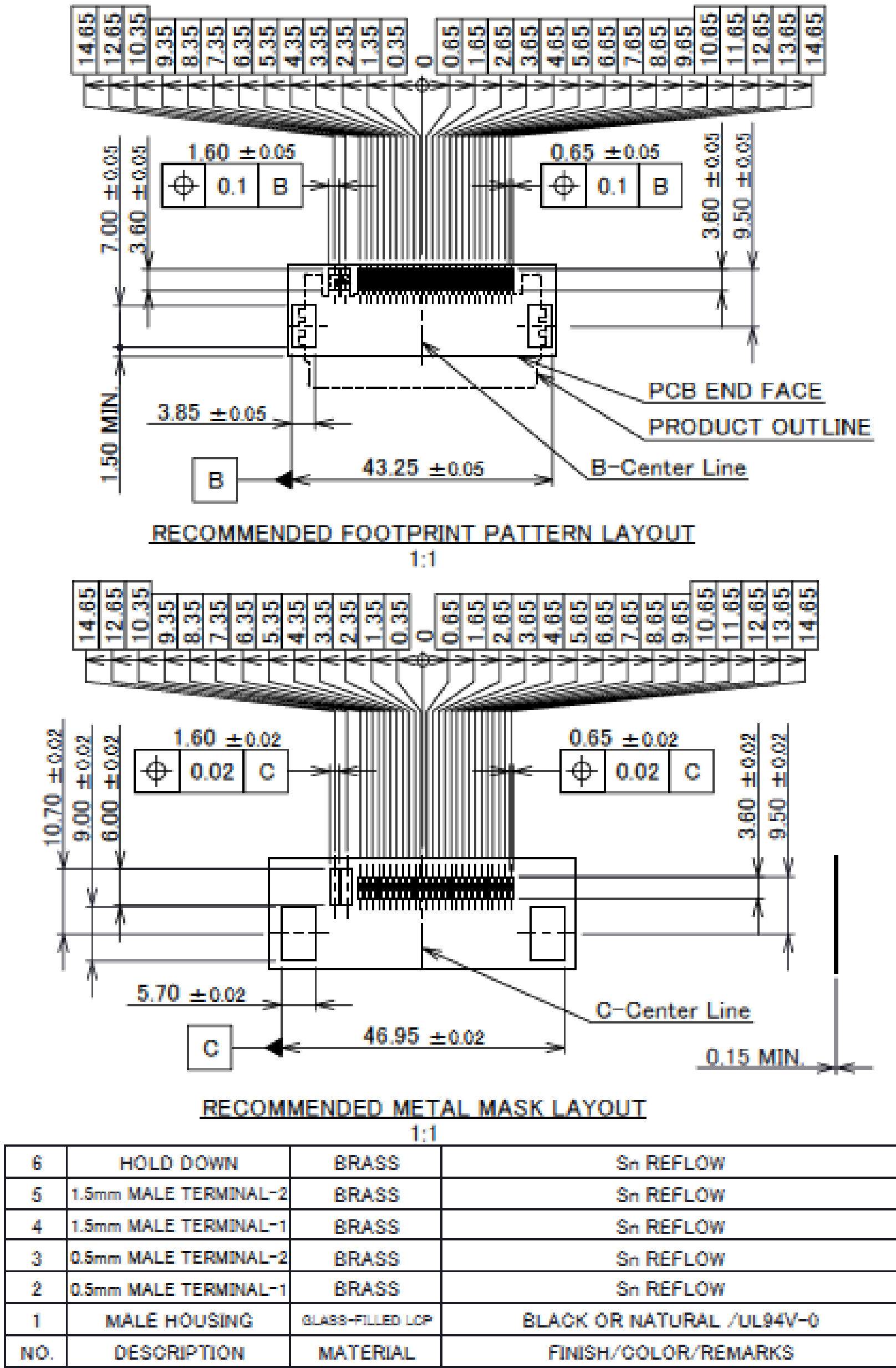
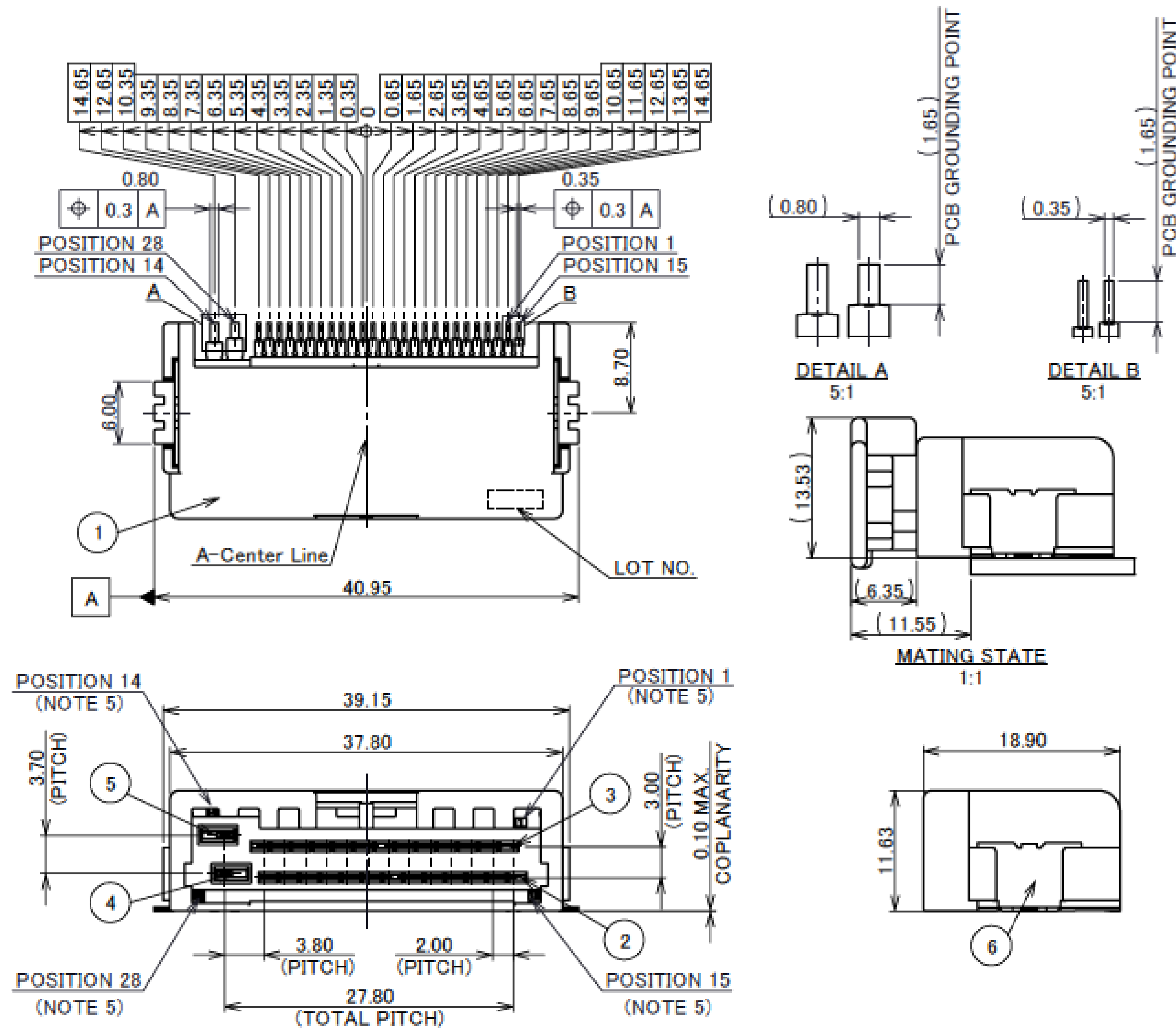
- NOTES
- 1.APPLICABLE PART NO. ARE SHOWN IN TABLE 1.
 - 2.COMPLY WITH ELV/RoHS
 - 3.HANDLE OF PRODUCT IN COMPLIANCE WITH HANDLING MANUAL [HDM-002]
 - 4.USE METAL MASK WHICH HAS A THICKNESS OF 0.15mm MIN.
 - 5.POSITION NUMBERS ARE INDICATED.



KEY CODING - B
PART NO.: V0123-020E-11

ISH[®] (Horizontal Type-Hybrid) MALE (28P):

MALE CONNECTOR			FEMALE CONNECTOR		FEMALE TERMINAL	
KEY CODING	PART NO.	COLOR	PART NO.	COLOR	PART NO.	FINISH
-	V0123-023E-01	BLACK	V0124-023E-01	BLACK	VT009-02 & VT011-02	Sn REFLOW

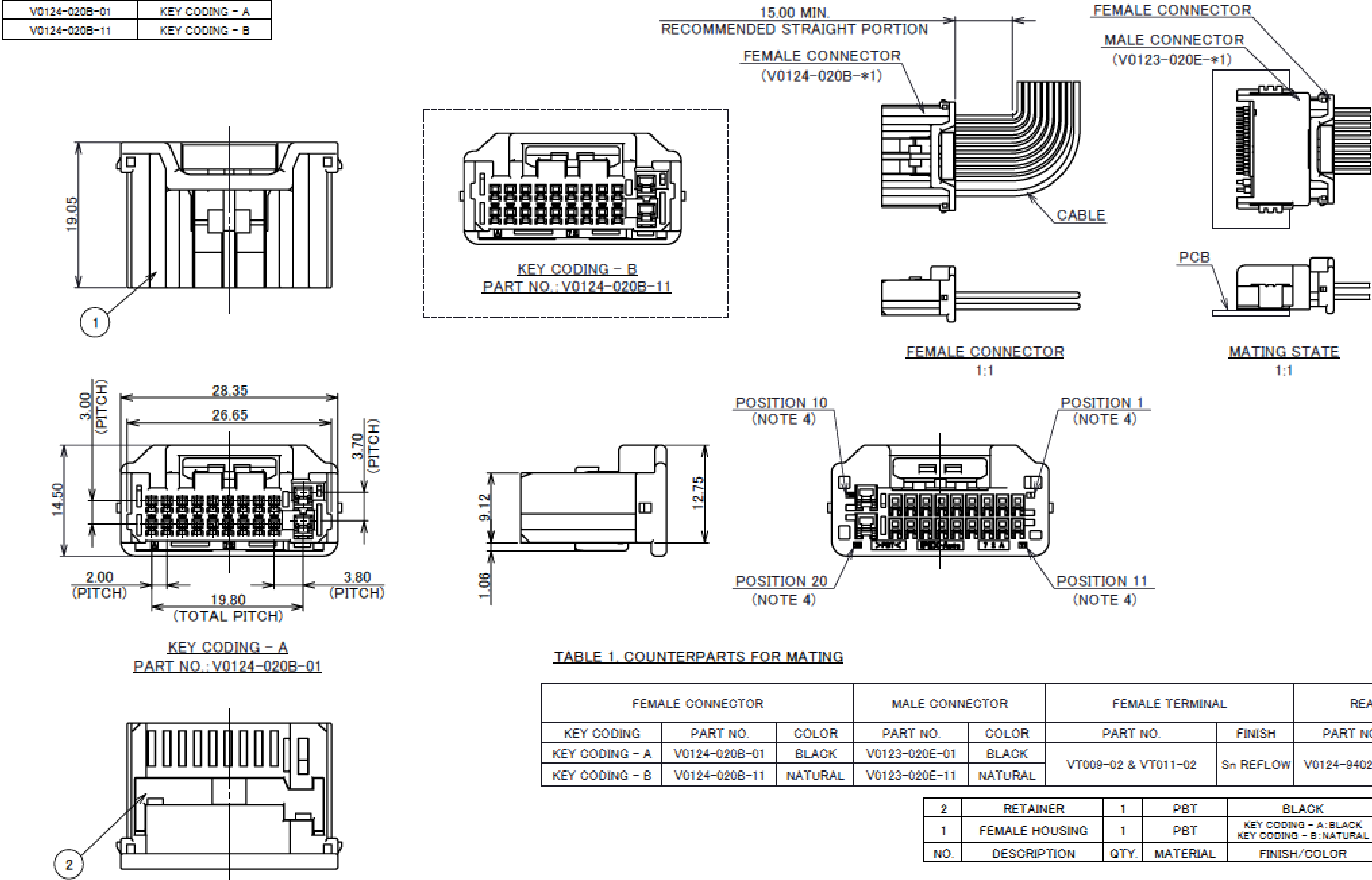


- NOTES
- 1.APPLICABLE PART NO. ARE SHOWN IN TABLE 1.
 - 2.COMPLY WITH ELV/RoHS
 - 3.HANDLE OF PRODUCT IN COMPLIANCE WITH HANDLING MANUAL【HDM-0021】
 - 4.USE METAL MASK WHICH HAS A THICKNESS OF 0.15mm MIN.
WHEN THE MALE CONNECTOR IS MOUNTED ON THE PCB.
 - 5.POSITION NUMBERS ARE INDICATED.

Rev.0

ISH[®] (Horizontal Type-Hybrid) FEMALE (20P):

PART NO.	KEY CODING
V0124-020B-01	KEY CODING - A
V0124-020B-11	KEY CODING - B

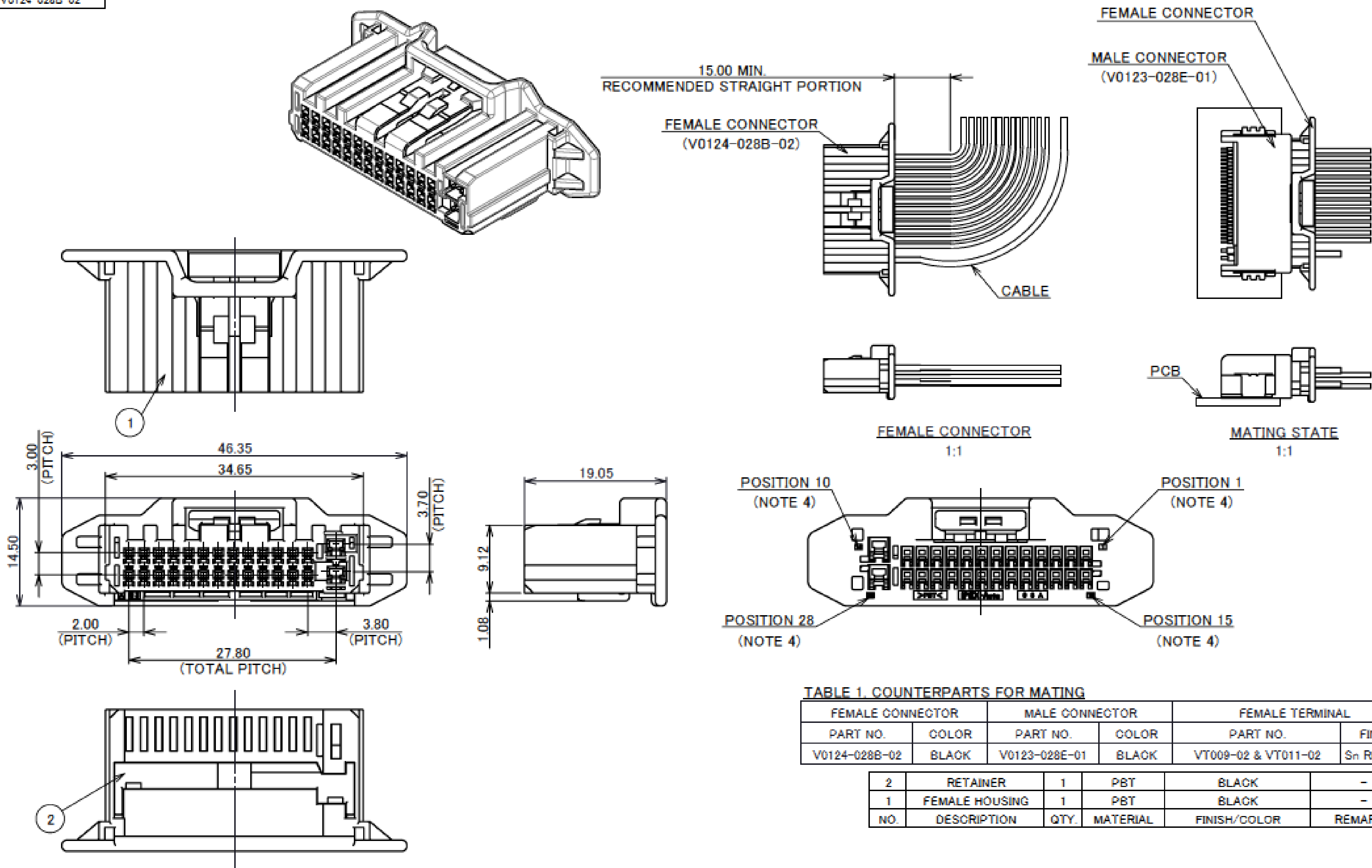


- NOTE
- 1.APPLICABLE MALE CONNECTOR PARTS NO. ARE SHOWN IN TABLE 1.
 - 2.COMPLY WITH ELV/RoHS
 - 3.HANDLE OF PRODUCT IN COMPLIANCE WITH HANDLING MANUAL【HDM-0021】
 - 4.POSITION NUMBERS ARE INDICATED.

Rev.0

ISH® (Horizontal Type-Hybrid) FEMALE (28P):

PART NO.
V0124-028B-02

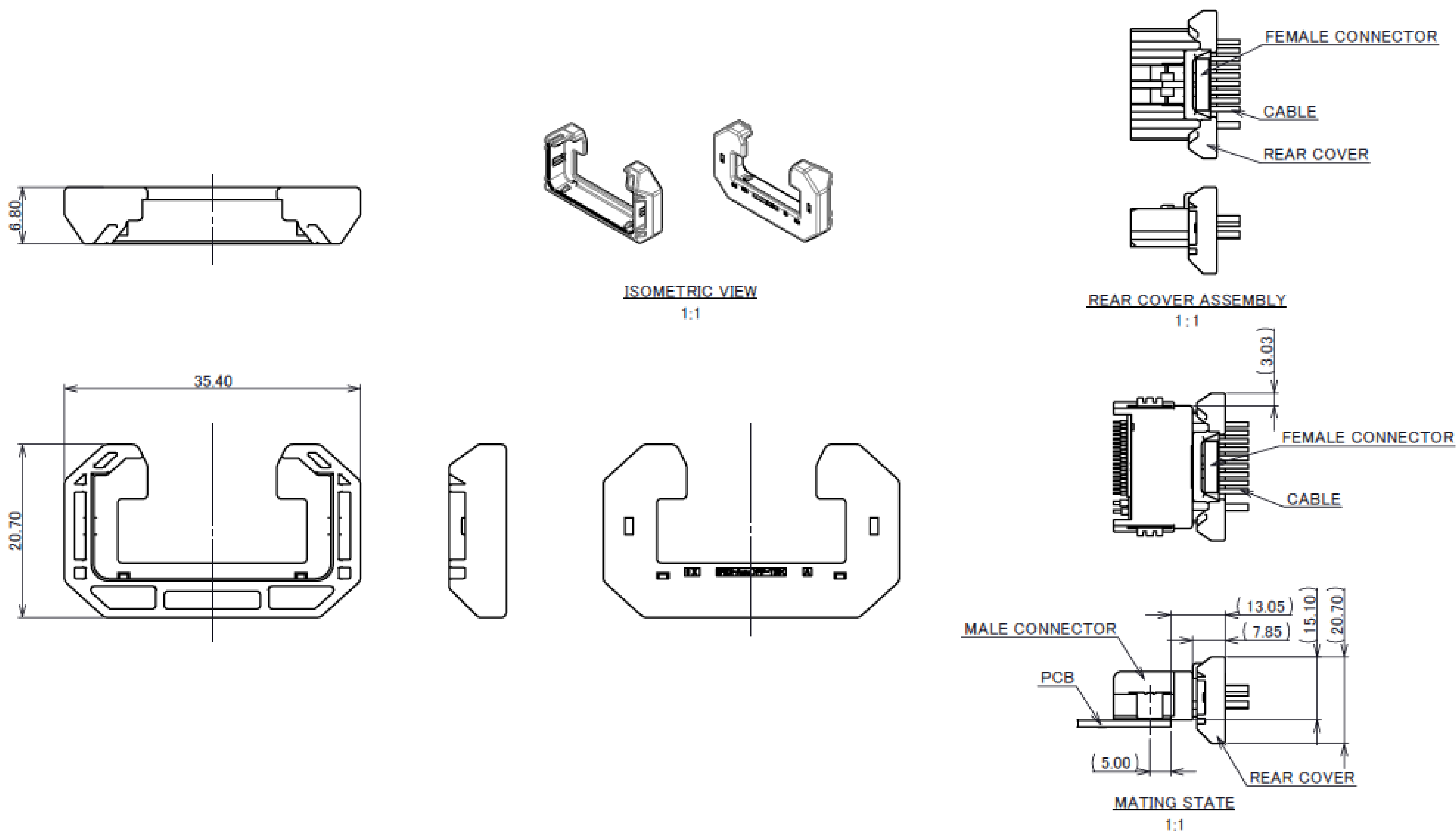


NOTE
1.APPLICABLE MALE CONNECTOR PARTS NO. ARE SHOWN IN TABLE 1.
2.COMPLY WITH ELV/RoHS
3.HANDLE OF PRODUCT IN COMPLIANCE WITH HANDLING MANUAL [HDM-0021]
4.POSITION NUMBERS ARE INDICATED.

Rev.0

ISH® (Horizontal Type-Hybrid) REAR COVER (20P):

PART NO.
V0124-84020-01

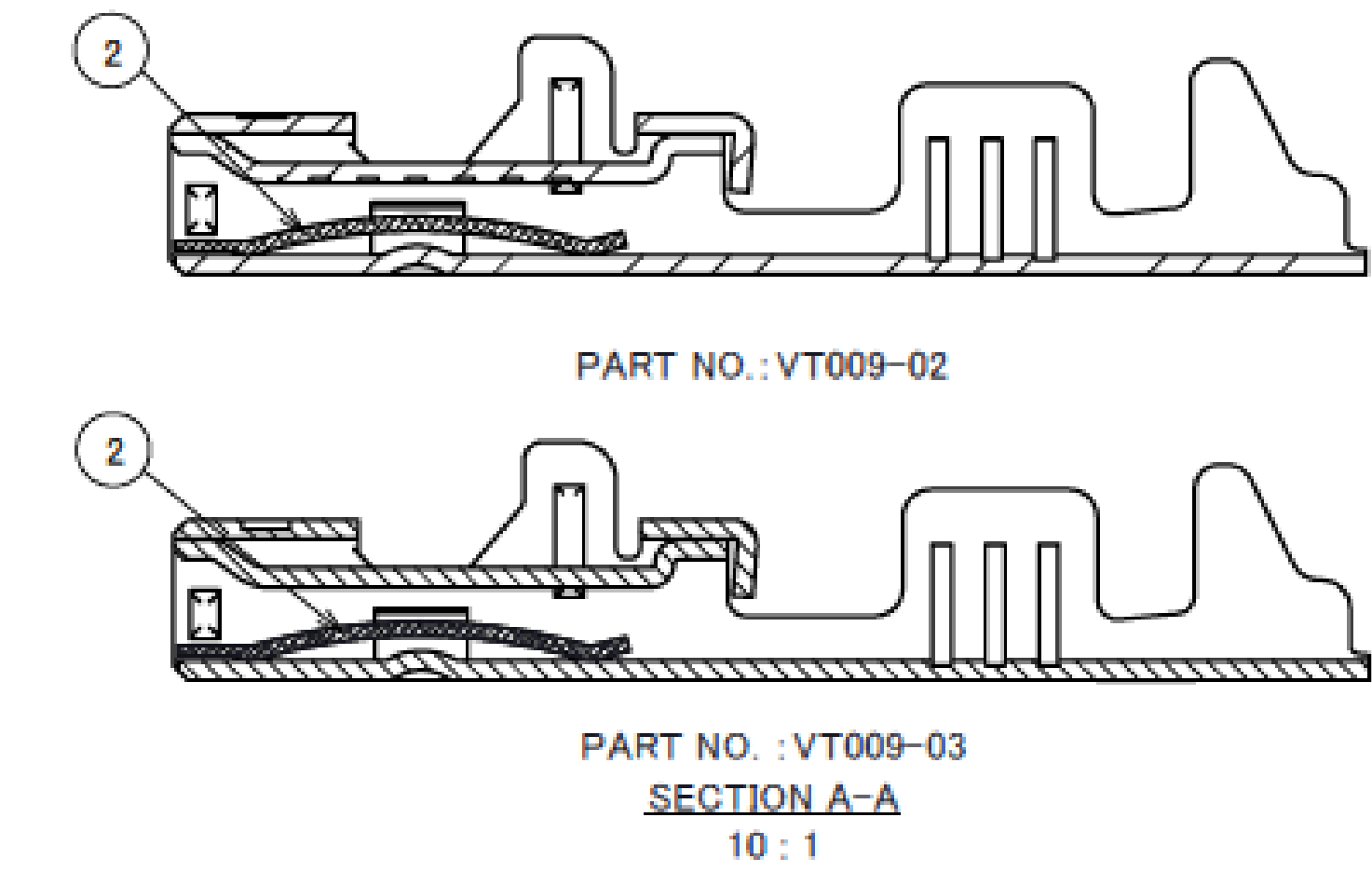


NOTES
1.APPLICABLE PART NO.:
•FEMALE HOUSING...V0124-020B-01(KEY CODING - A)
...V0124-020B-02(KEY CODING - B)
2.COMPLY WITH ELV/RoHS
3.INSERTION FORCE TO FEMALE HOUSING:55N MAX.
RETENTION FORCE TO FEMALE HOUSING:30N MIN.

1	REAR COVER	PP-T30	BLACK
NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS

Rev.0

PART NO.	PLATING
VT009-02	Sn REFLOW
VT009-03	CONTACT AREA : Au PLATING CRIMPING AREA : Sn REFLOW



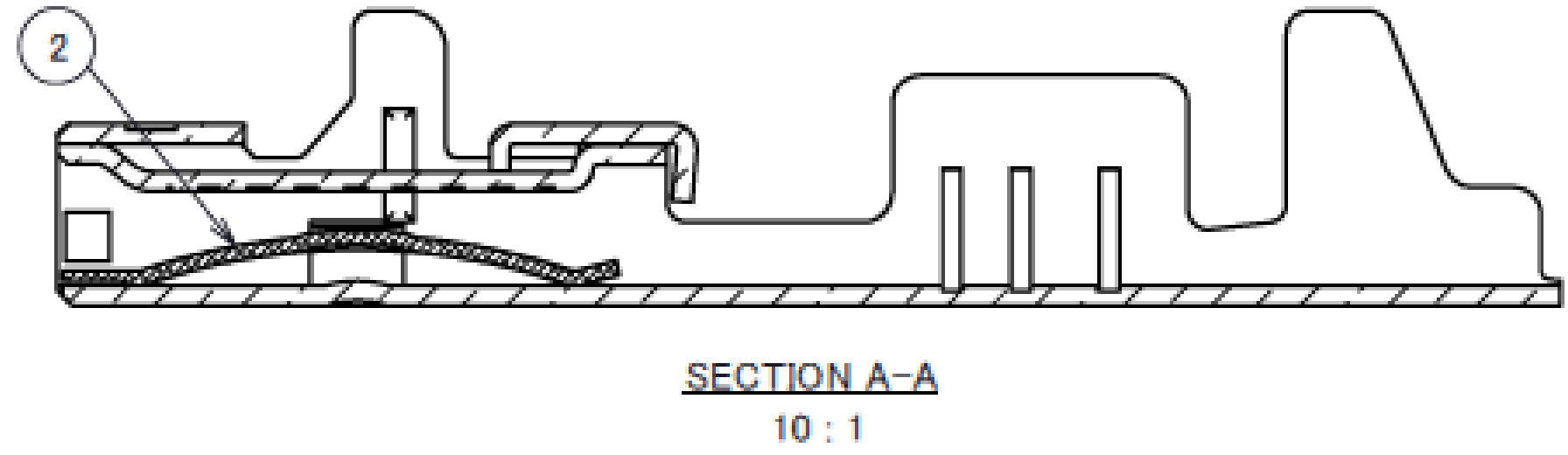
NOTE

1. APPLICABLE FEMALE HOUSING: ISH CONNECTOR SERIES
2. APPLICABLE CABLE SIZE: 0.3mm² / 0.5mm² (FINISHED ϕ 1.60mm MAX.)
3. COMPLY WITH ELV/RoHS.
4. TERMINAL CRIMP SPECIFICATION MUST BE COMPLIANT WITH HANDLING MANUAL [HDM-0020].

2	SPRING	COPPER ALLOY	VT009-02 PLATING : Sn REFLOW VT009-03 PLATING : Au PLATING
1	BODY	BRASS	VT009-02 PLATING : Sn REFLOW VT009-03 PLATING : Au PLATING CONTACT AREA : Au PLATING CRIMPING AREA : Sn REFLOW
NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS

Rev.0

PART NO.	PLATING
VT011-02	Sn REFLOW



NOTE

1. APPLICABLE FEMALE HOUSING:ISH CONNECTOR SERIES
2. APPLICABLE CABLE SIZE:0.5mm² (FINISHED ϕ 1.93mm MAX.)
3. COMPLY WITH ELV/RoHS.
4. TERMINAL CRIMP SPECIFICATION MUST BE COMPLIANT WITH HANDLING MANUAL [HDM-0021].

2	SPRING	COPPER ALLOY	PLATING : Sn REFLOW
1	BODY	BRASS	PLATING : Sn REFLOW
NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS

Rev.0

Custom Connectors Available

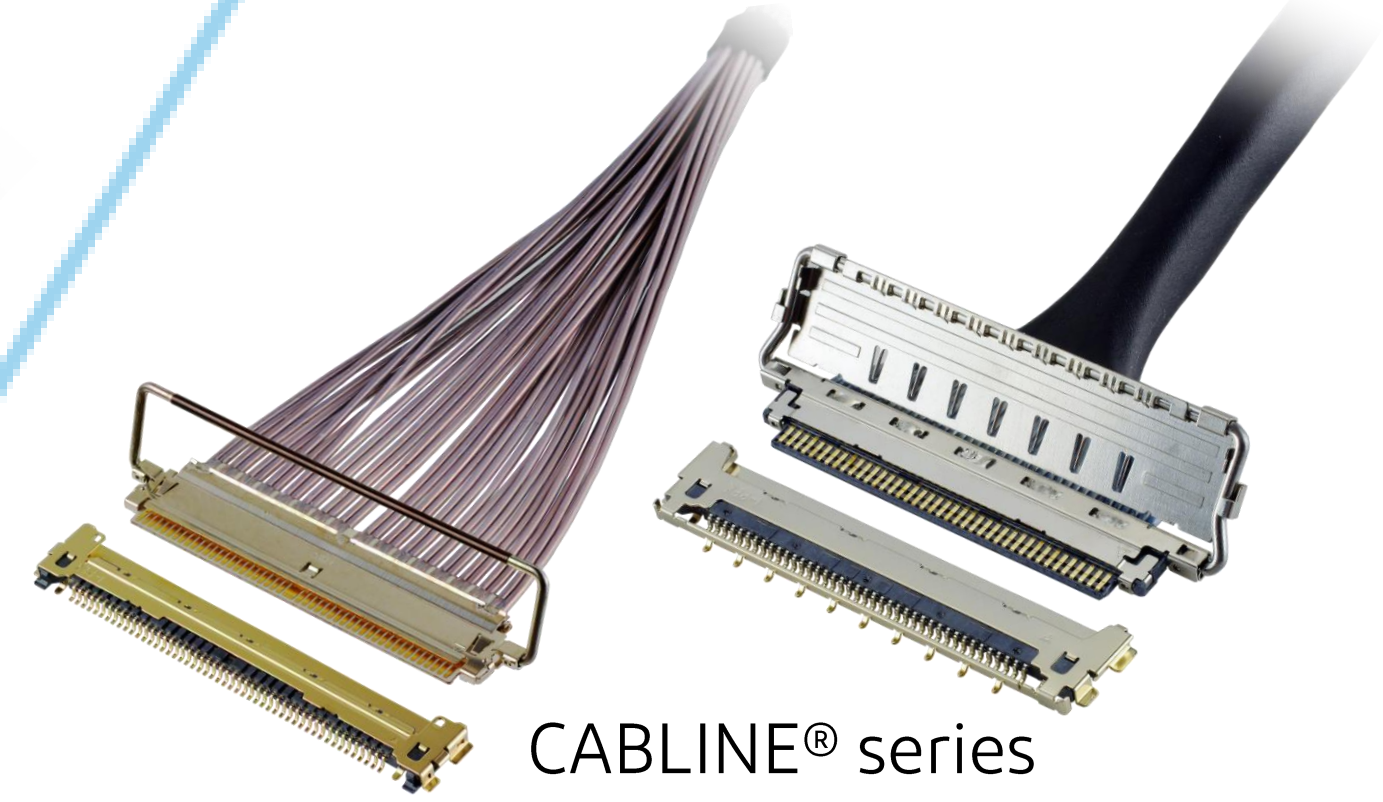


RF
Connectors

MHF® series



CABLINE® series
Micro-coaxial/Twinax
Connectors

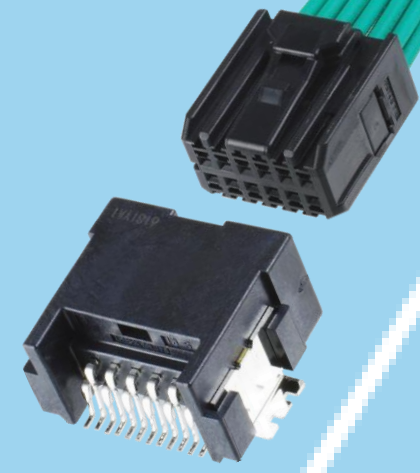


Wire-to-Board
Connectors/
Terminals

AP series



ISH® series



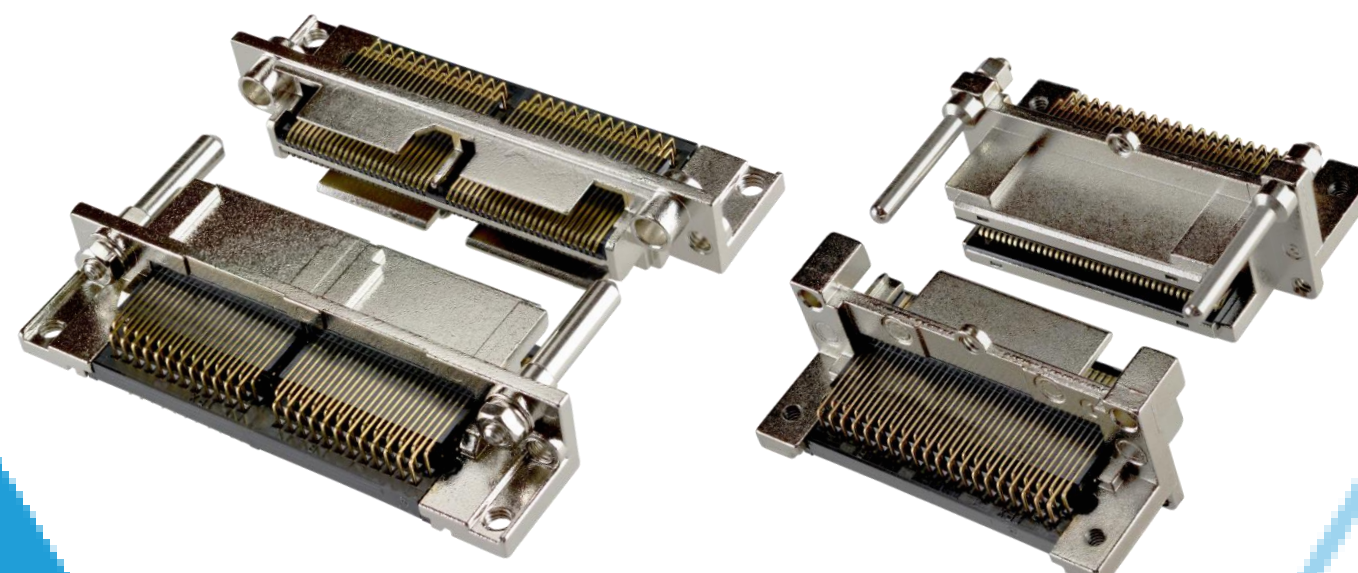
NOVASTACK® series



Board-to-Board
Connectors



I/O
Connectors



MINIDOCK™ series



FPC/FFC
Connectors

MINIFLEX® series EVAFLEX® series



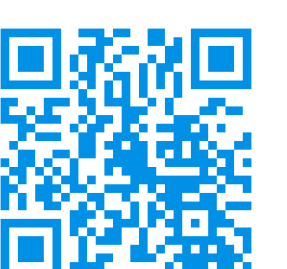
Inquiry



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