

ISH[®] (Horizontal Type-Hybrid)

耐熱, 耐振, 混用 (信號+電力) 端子

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.)		13.6	
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.

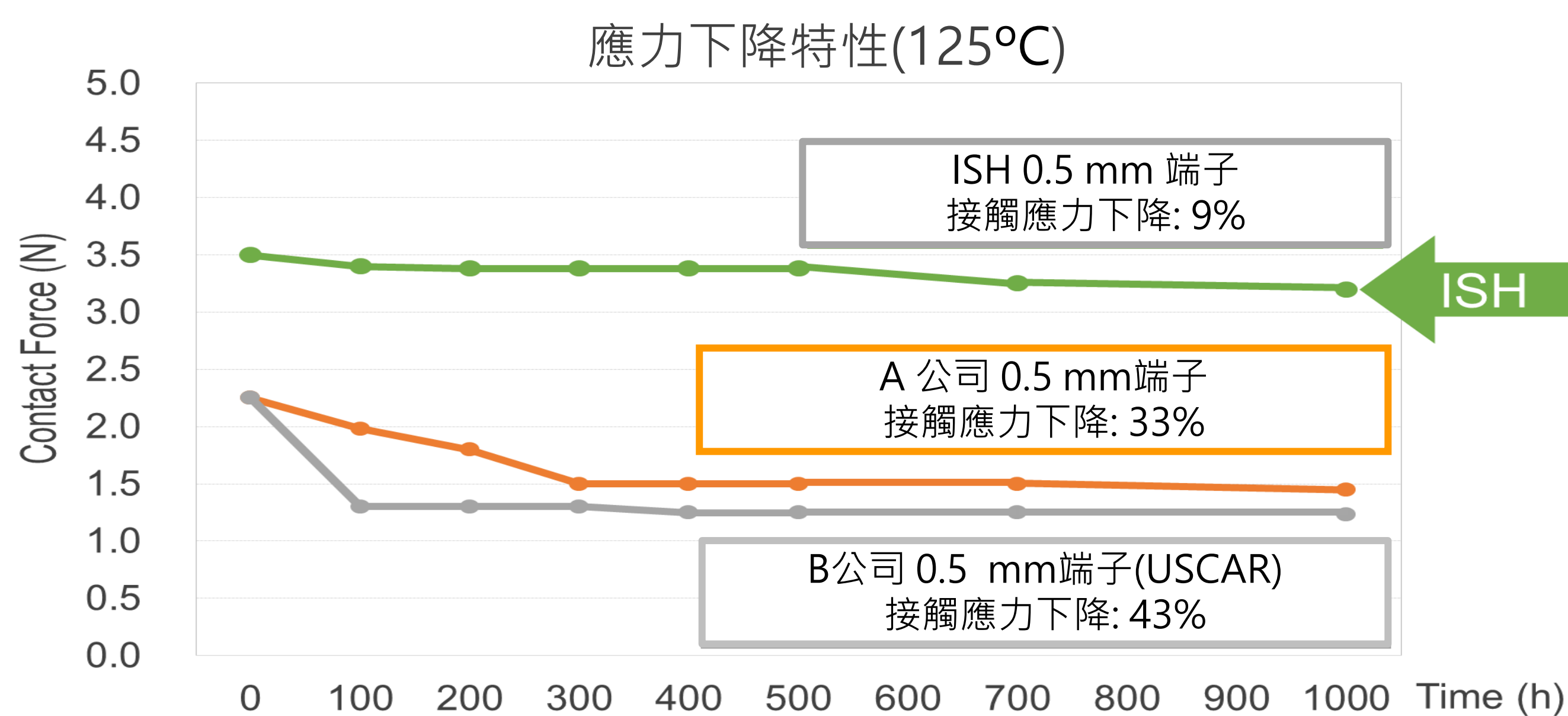
Power: AWG#20

*Insulation Diameter 1.9 mm max.

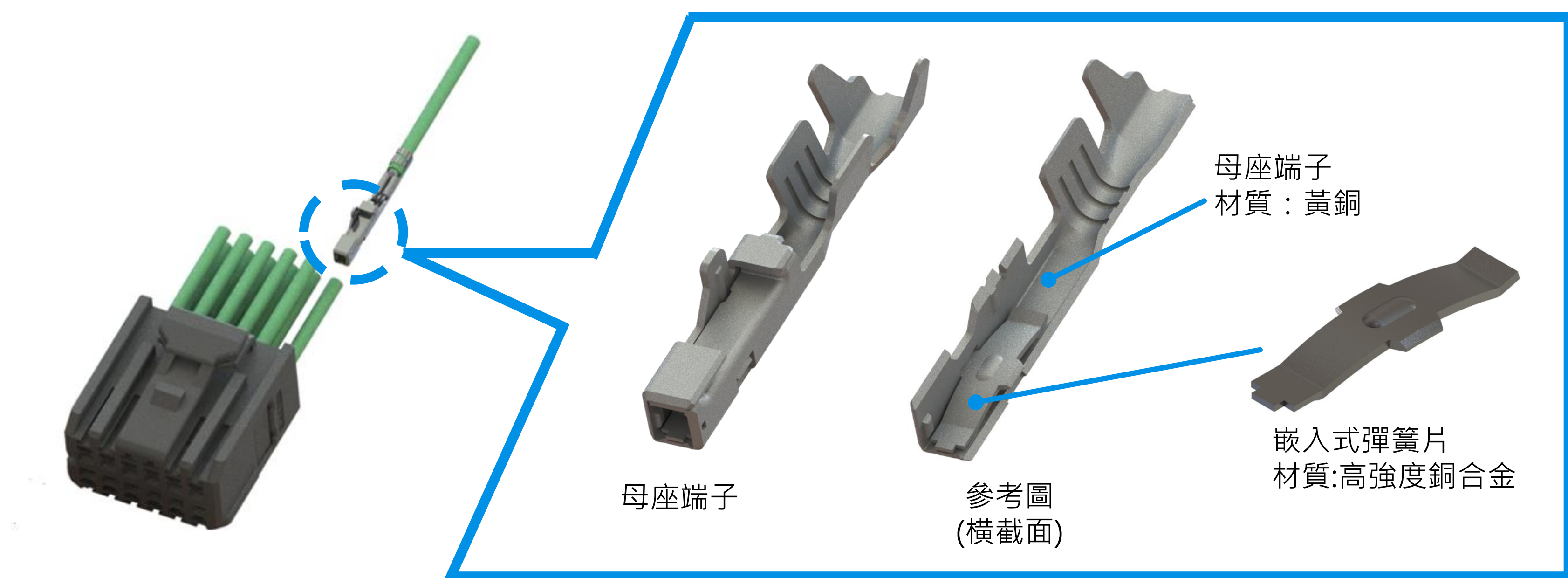


*如您需要瞭解未列出或不在範圍內的Pin數，請諮詢我們

► 高耐熱性和抗振動性, 適用於高接觸可靠性應用



► 獨特的嵌入式彈簧接線端子, 提供長期穩定的電氣連接



► 適用車規及工業級別的行業應用



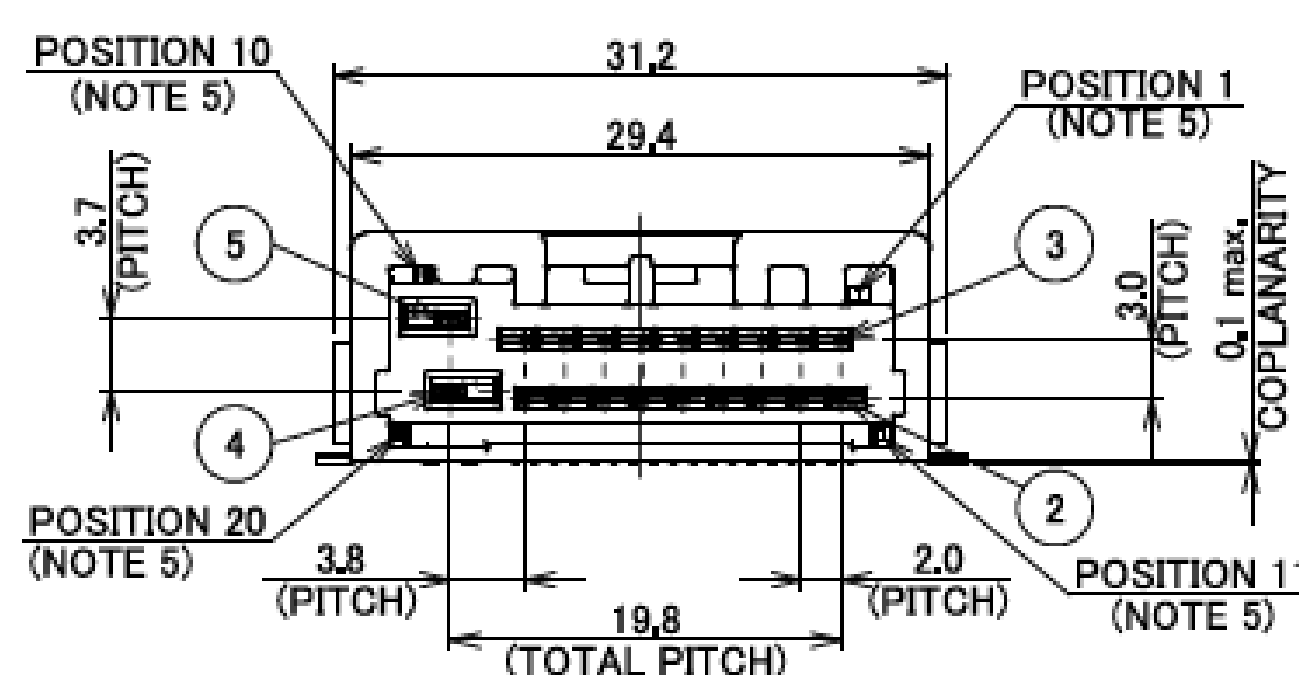
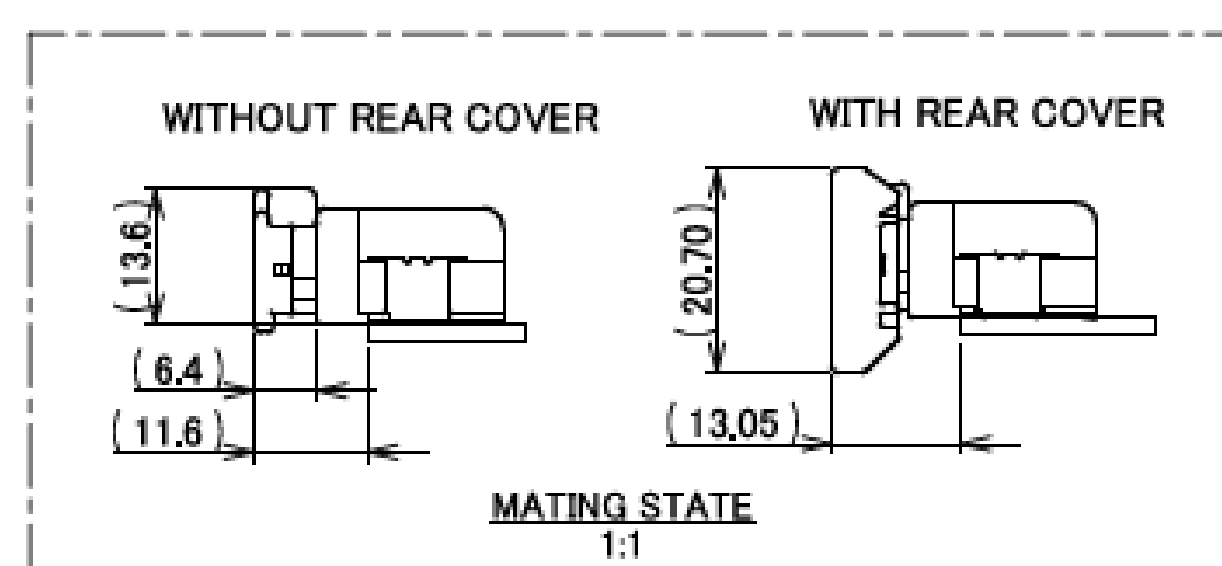
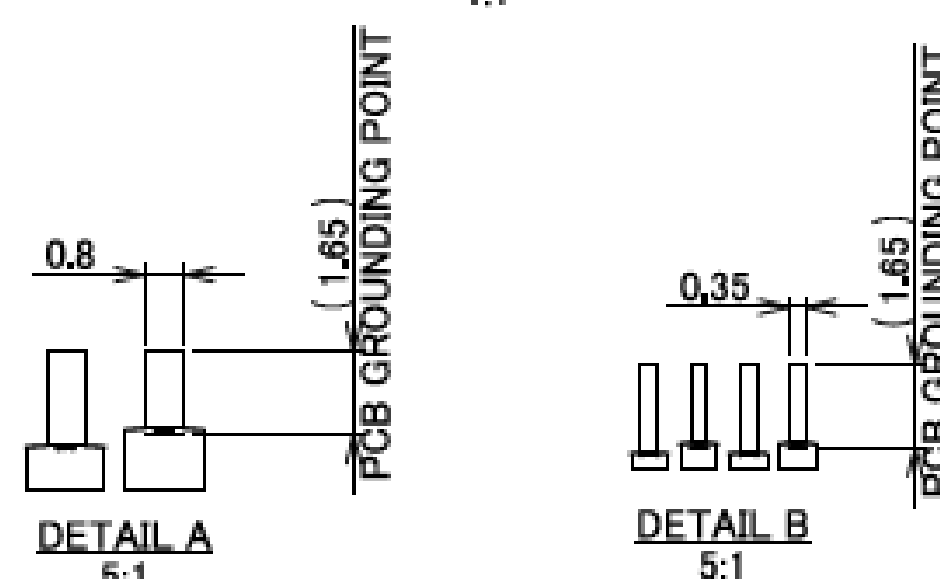
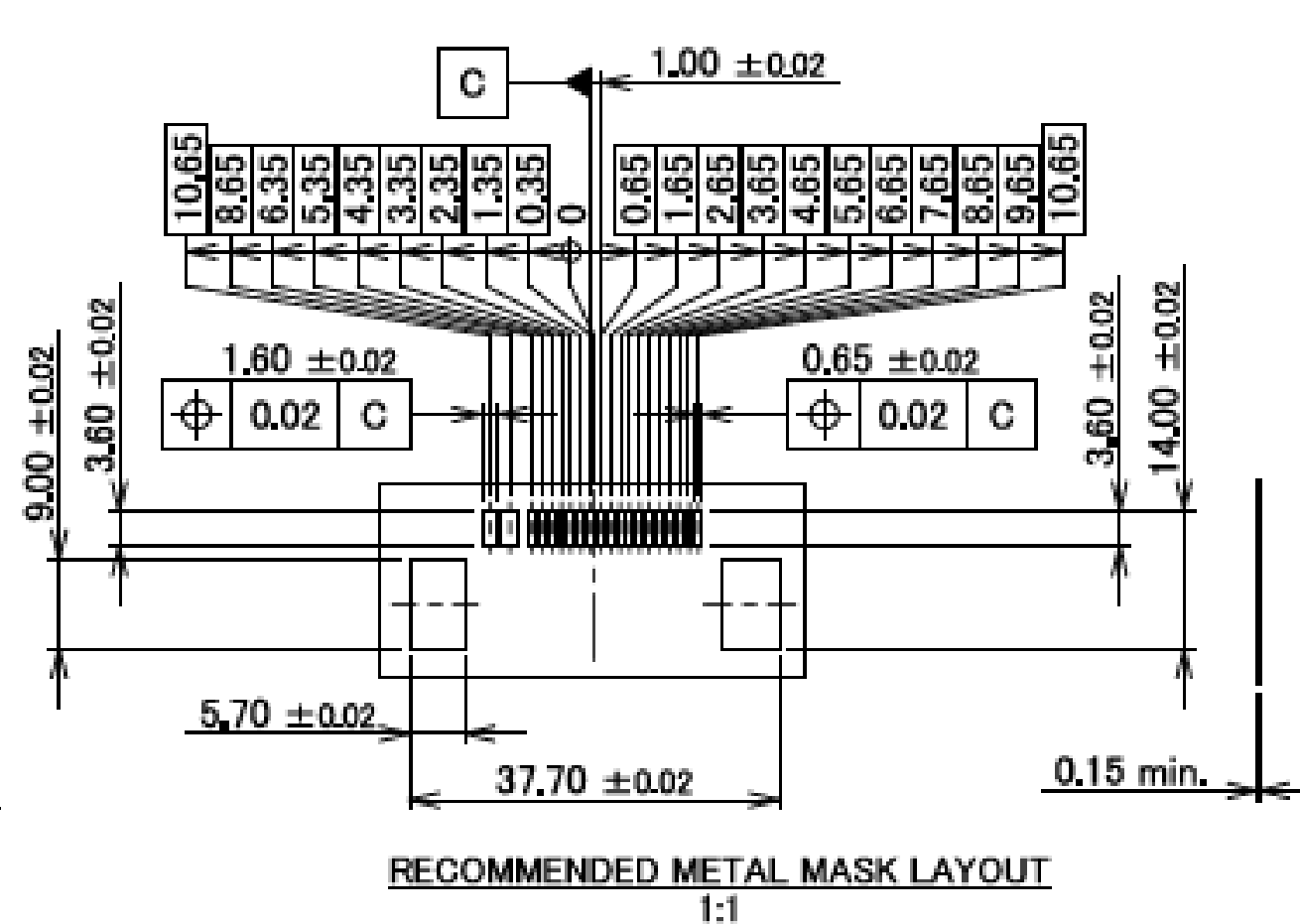
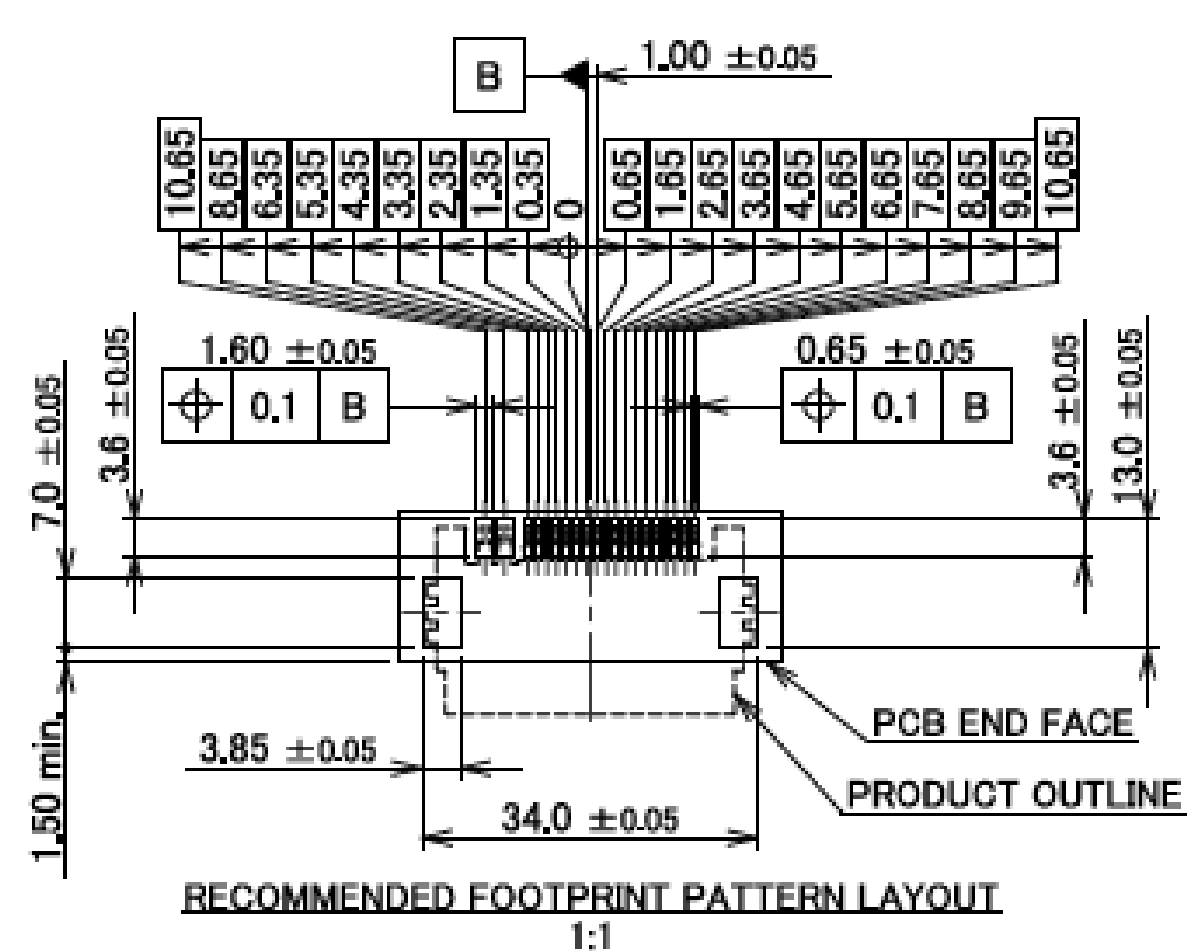
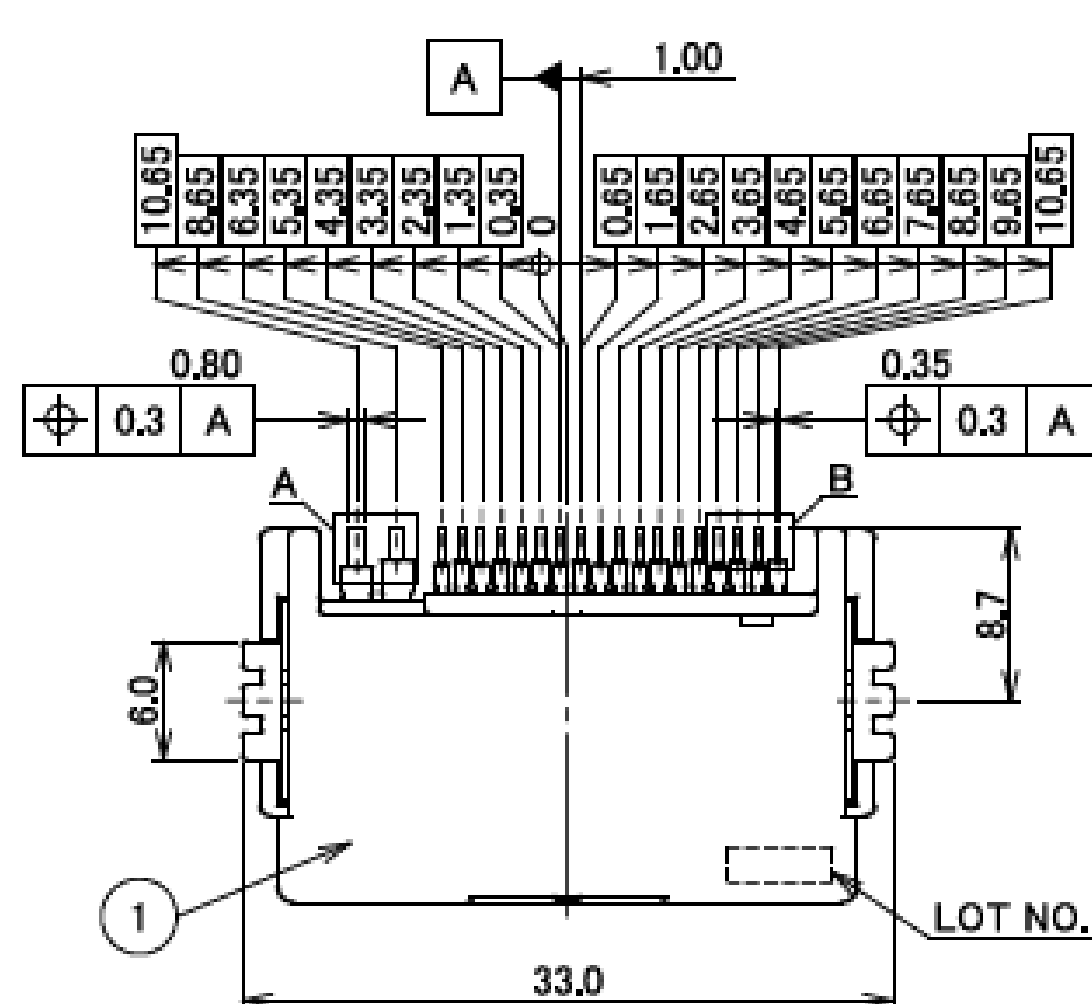
- 汽車大燈控制單元
- 逆變器和 DC/DC 轉換器
- 電池控制模組
- 後視鏡攝像模組
- 車載娛樂設施
- 機械設備
- 工廠自動化設備等

適用於高溫應用

Component Parts Details

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

PART NO.	KEY CODING
V0071-020E-011	KEY CODING - A
V0071-020E-012	KEY CODING - B



KEY CODING - A
PART NO.: V0071-020E-011

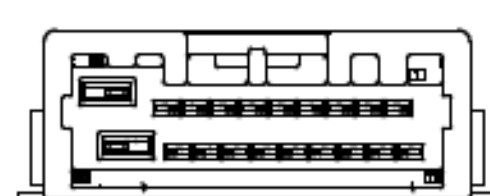
NOTES

1. APPLICABLE PART NO. ARE SHOWN IN TABLE 1.
2. COMPLY WITH ELV/RoHS
3. HANDLE OF PRODUCT IN COMPLIANCE WITH HANDLING MANUAL (HDM-0009)
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.

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	V0071-020E-011	BLACK	V0072-020B-111	BLACK	VT001-512 & VT004-513 VT001-513 & VT004-514	Sn REFLOW	V0072-93020-611	BLACK
KEY CODING-B	V0071-020E-012	NATURAL	V0072-020B-112	NATURAL				

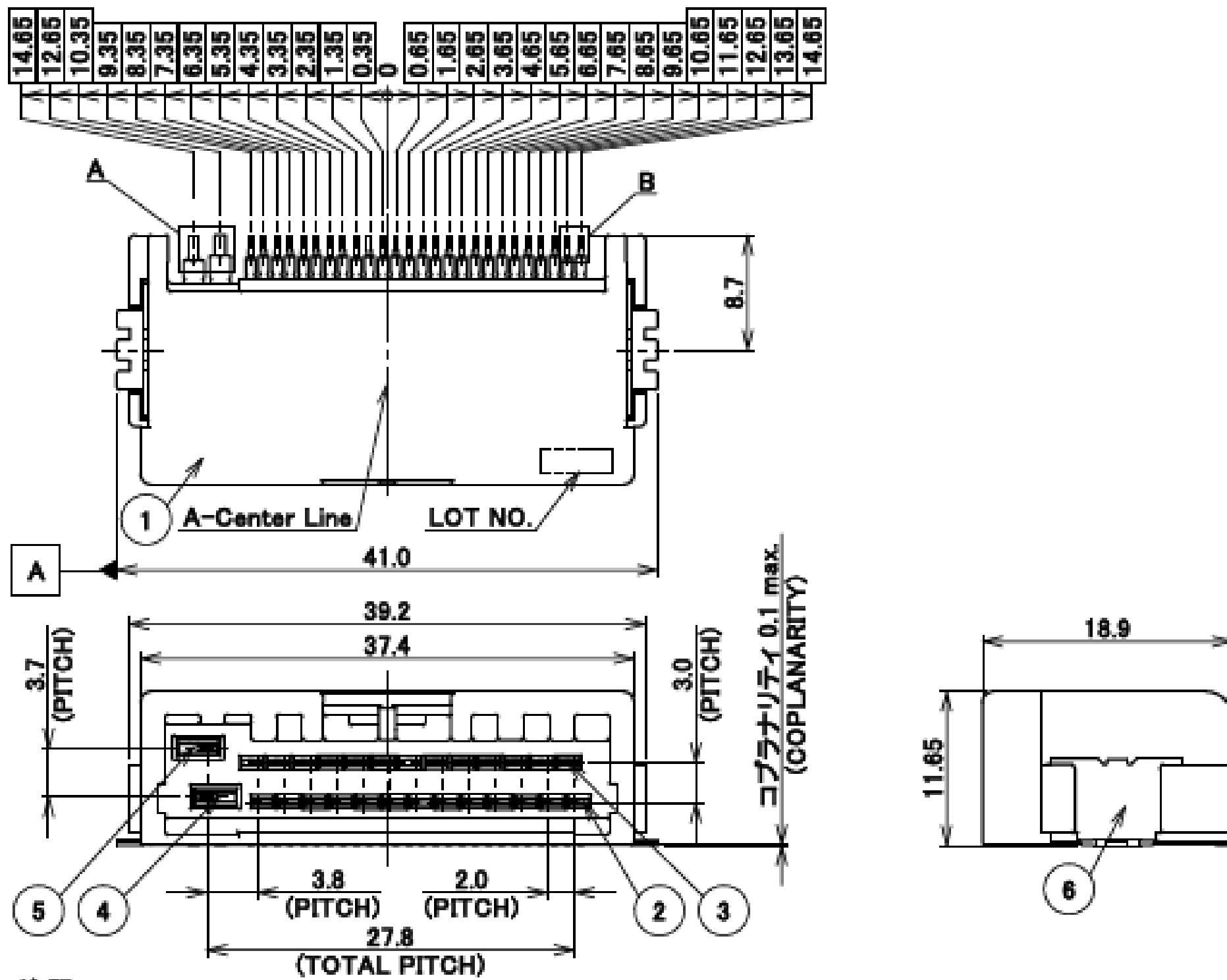
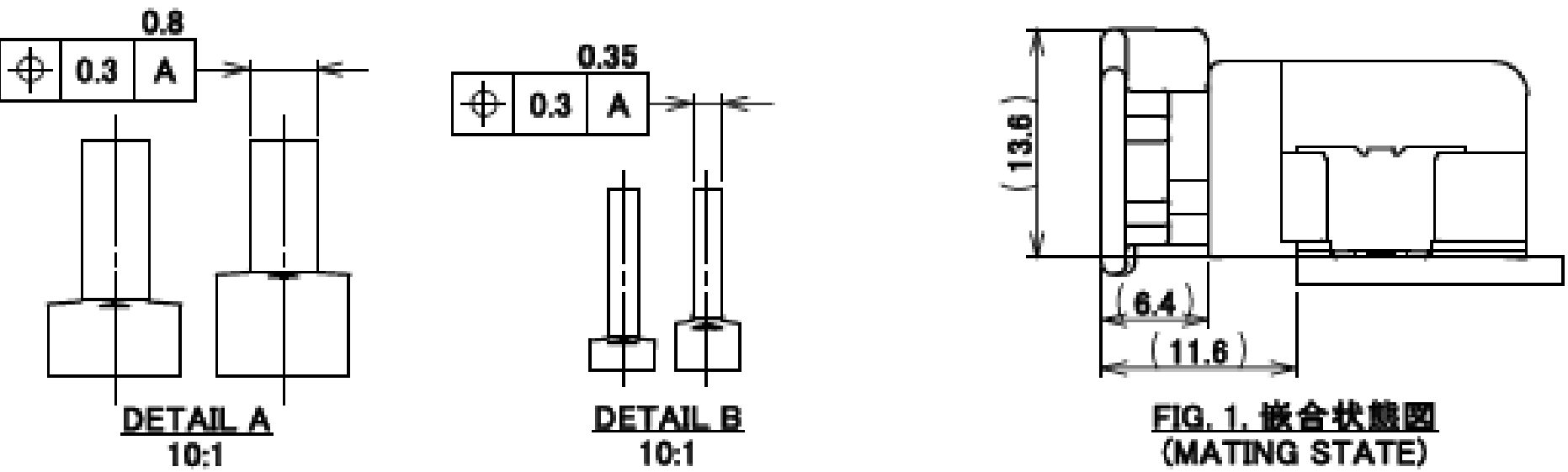
6	HOLD DOWN	BRASS	Sn REFLOW
5	1.5mm MALE TERMINAL-2	BRASS	Sn REFLOW
4	1.5mm MALE TERMINAL-1	BRASS	Sn REFLOW
3	0.5mm MALE TERMINAL-2	BRASS	Sn REFLOW
2	0.5mm MALE TERMINAL-1	BRASS	Sn REFLOW
1	MALE HOUSING	GLASS-FILLED LOP	BLACK OR NATURAL /UL94V-0
NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS



KEY CODING - B
PART NO.: V0071-020E-012

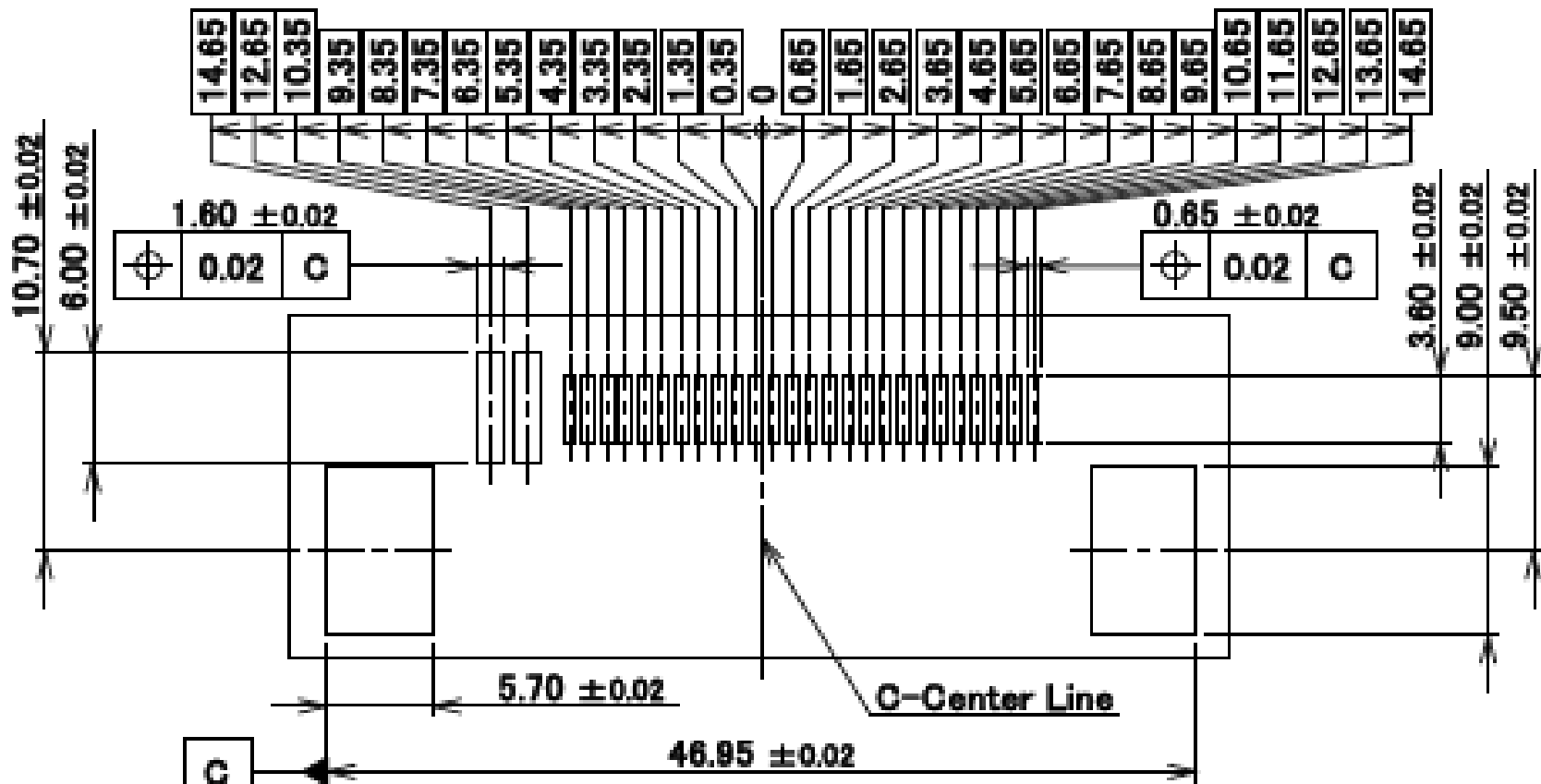
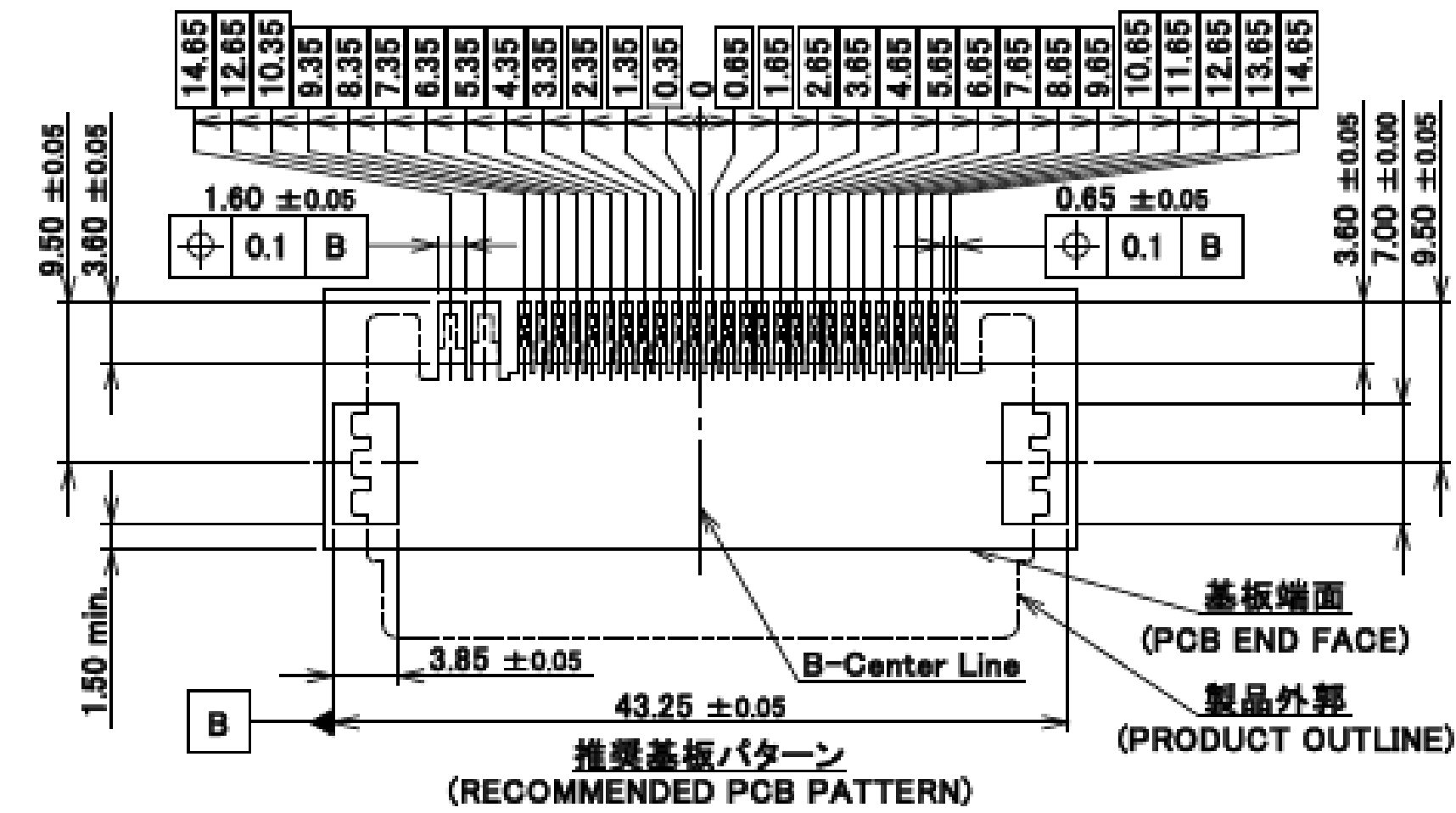
ISH[®] (Horizontal Type-Hybrid) MALE (28P):

オスコネクタ/ MALE CONNECTOR		適合メスコネクタ/ FEMALE CONNECTOR		適合メス端子/ FEMALE TERMINAL	
PART NO.	COLOR	PART NO.	COLOR	PART NO.	FINISH
V0071-028E-011	BLACK	V0072-028B-112	BLACK	VT001-513 VT004-514	Sn REFLOW



注記
1. ELV/RoHS 対応品
2. オスコネクタ基板実装時は厚さ0.15mm以上のメタルマスクを使用する事。

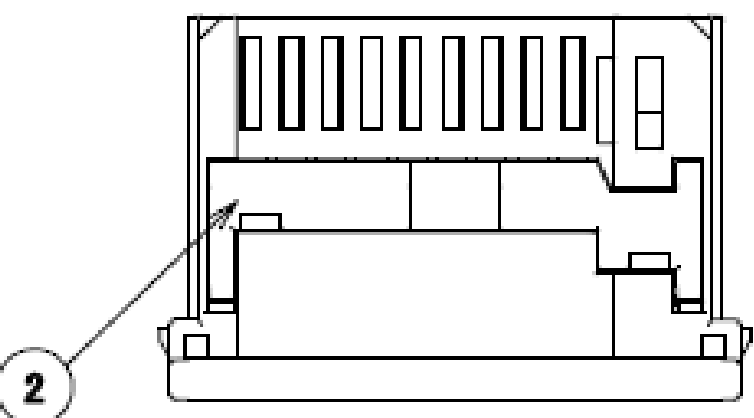
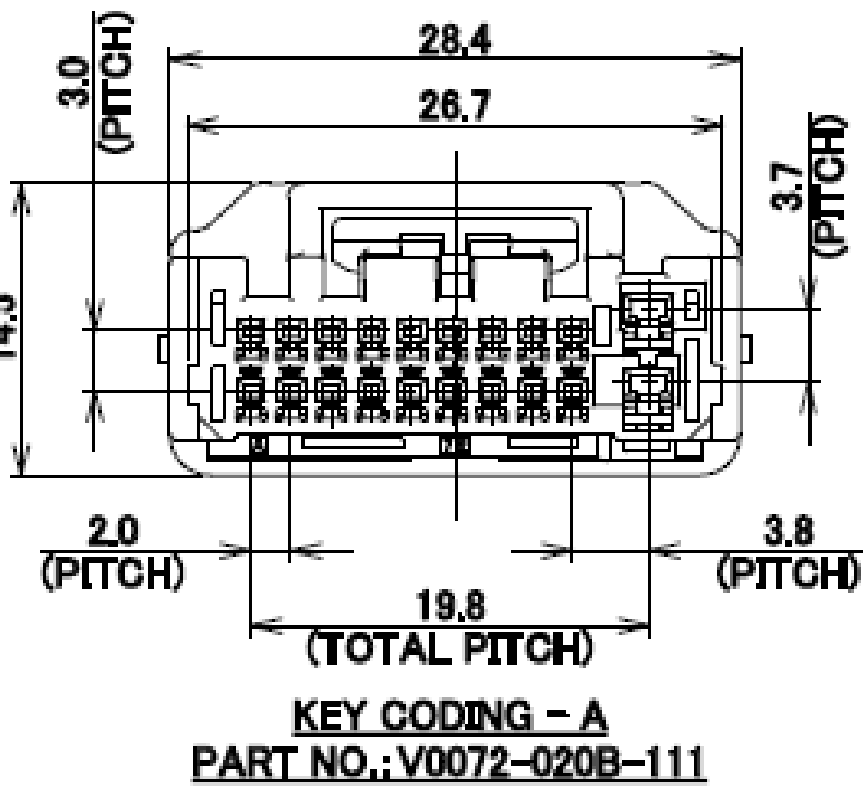
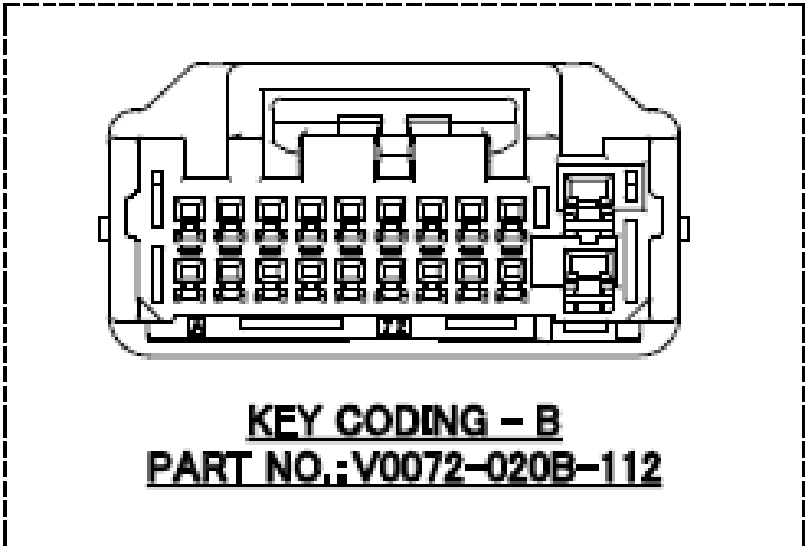
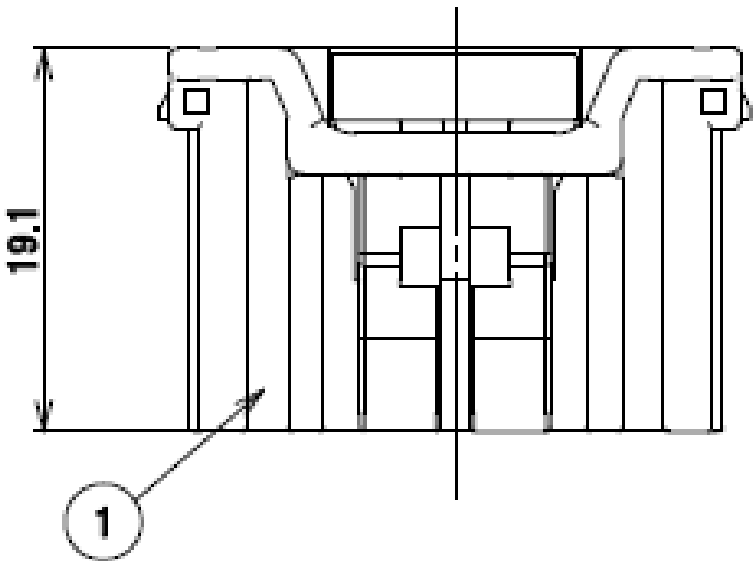
NOTE
1. COMPLY WITH ELV/RoHS
2. USE METAL MASK WHICH HAS A THICKNESS OF 0.15mm MIN. WHEN THE MALE CONNECTOR IS MOUNTED ON THE PCB.



NO.	DESCRIPTION	QTY.	MATERIAL	FINISH/COLOR	REMARKS
6	HOLD DOWN	2	Brass	Sn REFLOW	-
5	1.5mm MALE TERMINAL-2	1	Brass	Sn REFLOW	-
4	1.5mm MALE TERMINAL-1	1	Brass	Sn REFLOW	-
3	0.5mm MALE TERMINAL-2	13	Brass	Sn REFLOW	-
2	0.5mm MALE TERMINAL-1	13	Brass	Sn REFLOW	-
1	HOUSING	1	Glass-filled LCP	BLACK	UL94V-0

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

PART NO.	KEY CODING
V0072-020B-111	KEY CODING - A
V0072-020B-112	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-0009]
4. POSITION NUMBERS ARE INDICATED.

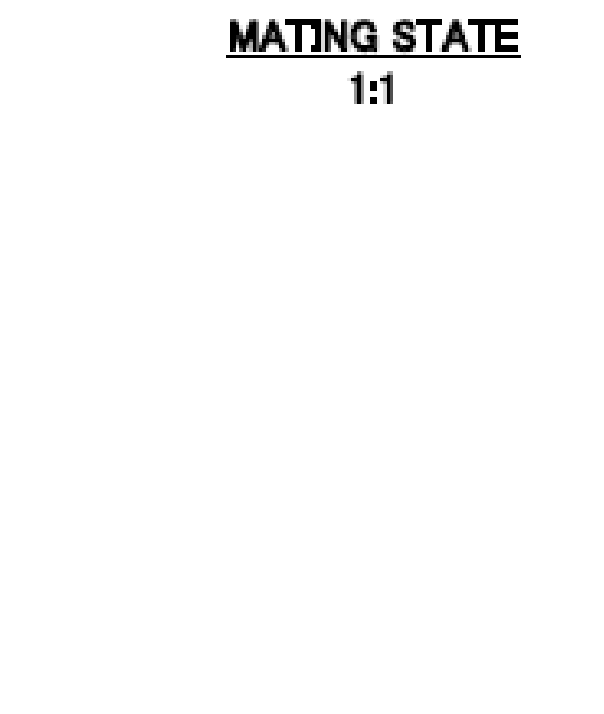
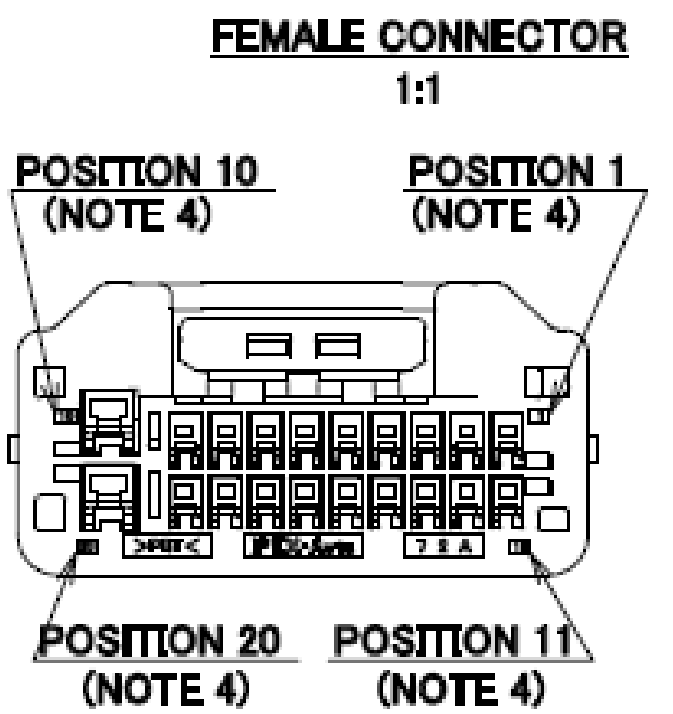
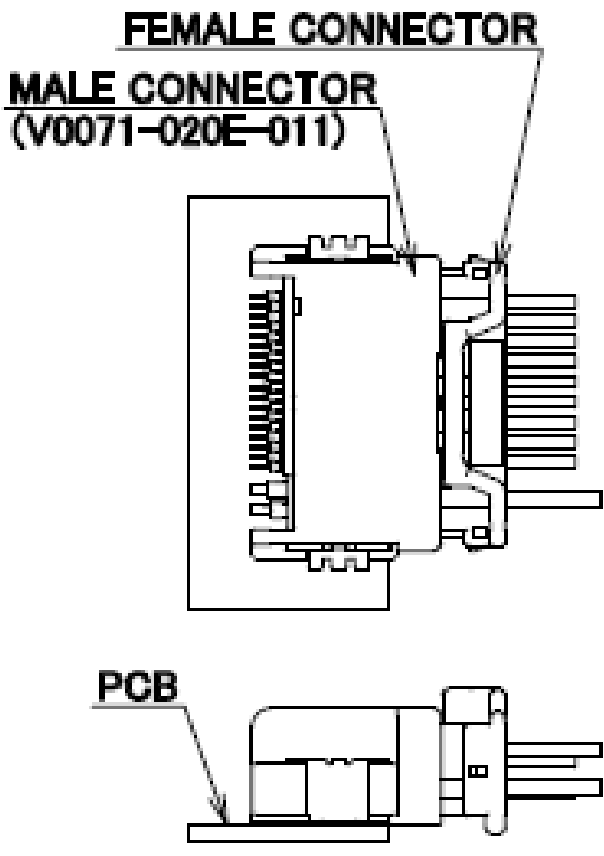
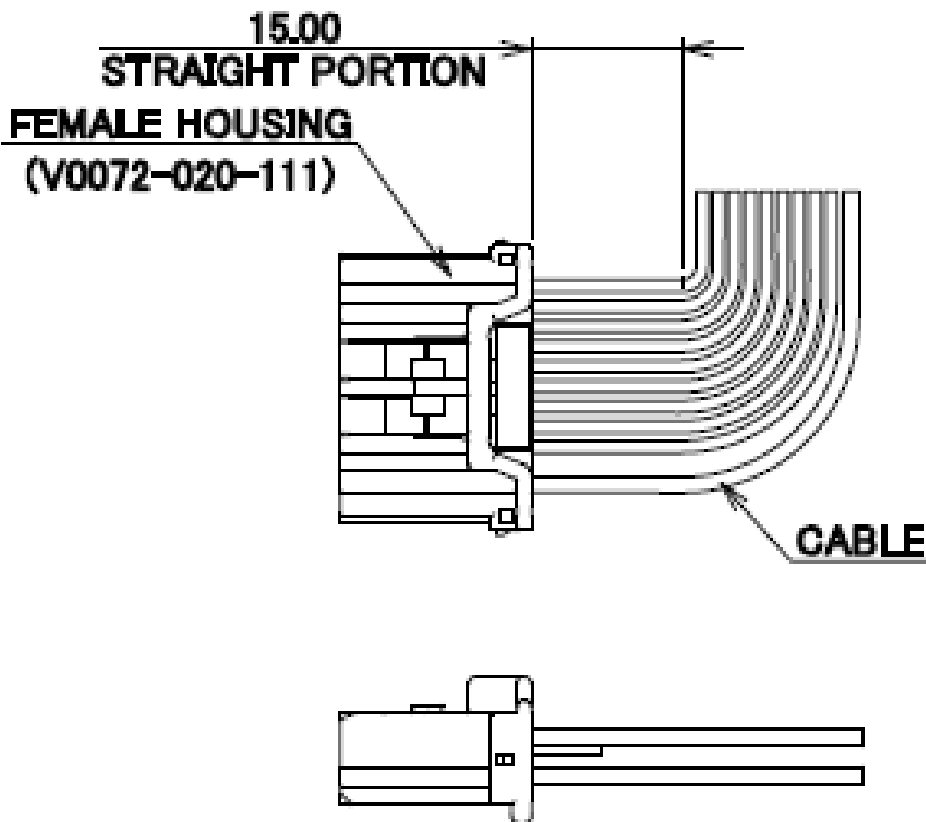


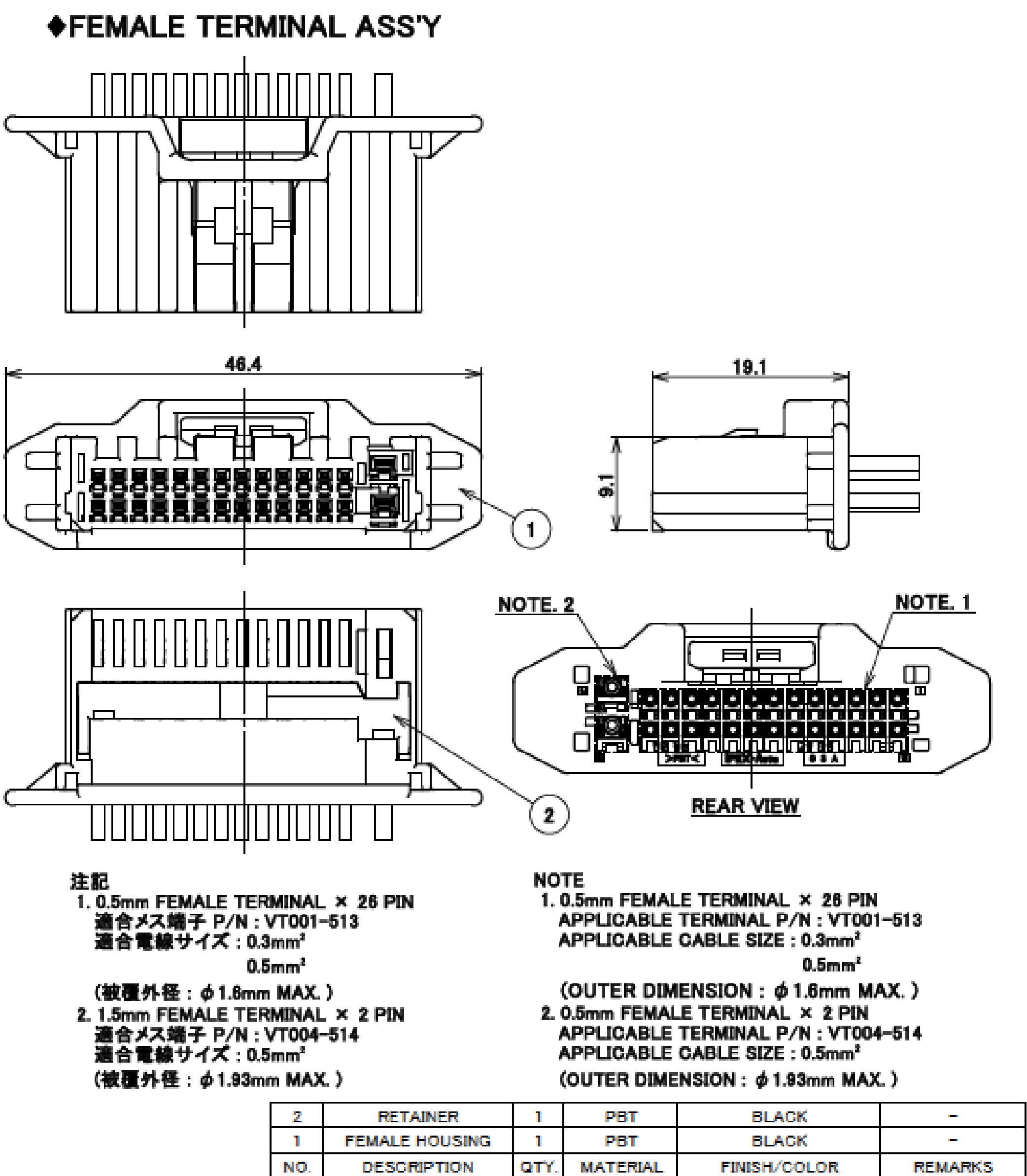
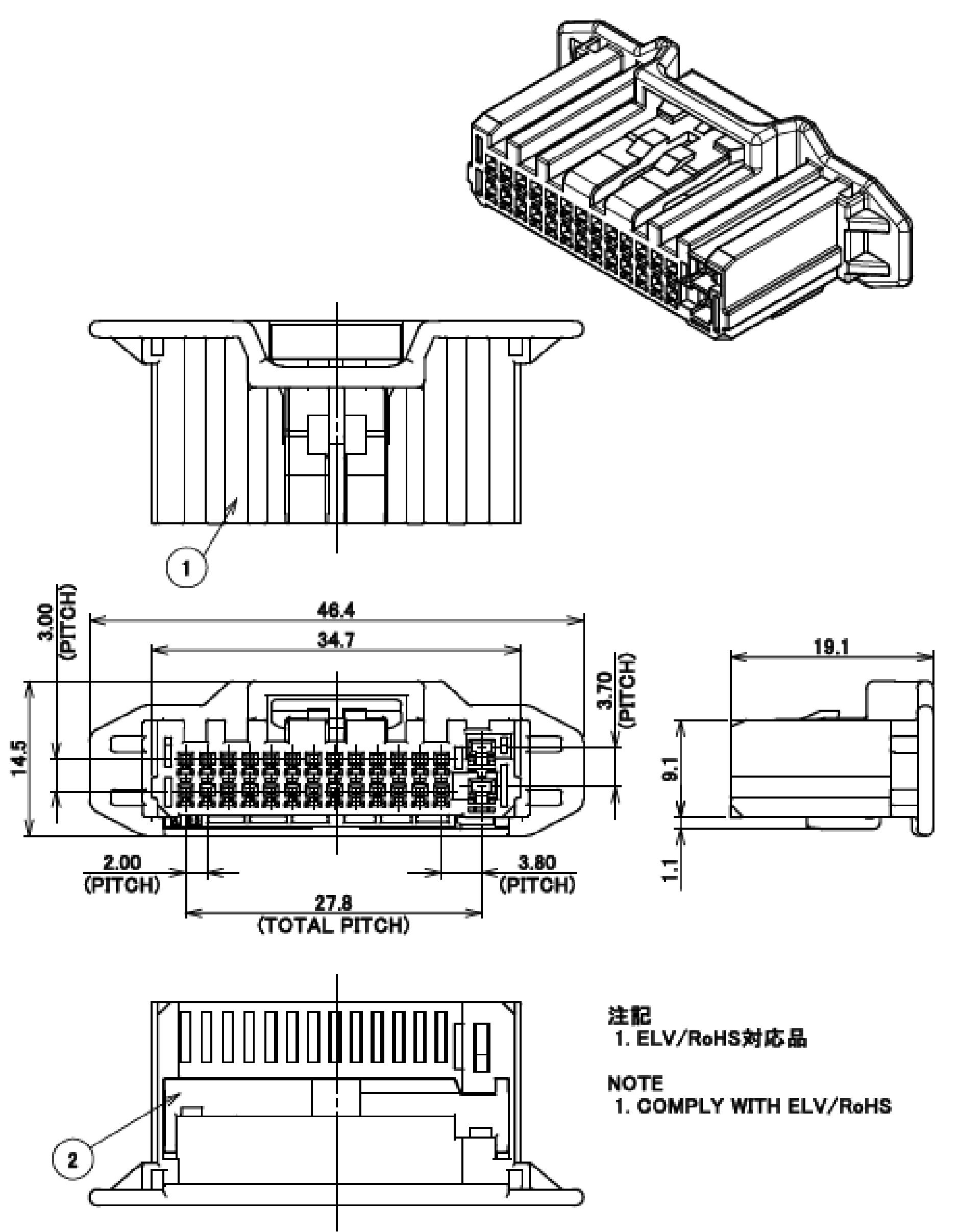
TABLE 1. COUNTERPARTS FOR MATING

FEMALE CONNECTOR			MALE CONNECTOR		FEMALE TERMINAL		REAR COVER	
KEY CODING	PART NO.	COLOR	PART NO.	COLOR	PART NO.	FINISH	PART NO.	COLOR
KEY CODING - A	V0072-020B-111	BLACK	V0071-020E-011	BLACK	VT001-512 & VT004-513	Sn REFLOW	V0072-93020-611	BLACK
KEY CODING - B	V0072-020B-112	NATURAL	V0071-020E-012	NATURAL	VT001-513 & VT004-514	Sn REFLOW		

2	RETAINER	1	PBT	BLACK	-
1	FEMALE HOUSING	1	PBT	BLACK	-
NO.	DESCRIPTION	QTY.	MATERIAL	FINISH/COLOR	REMARKS

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

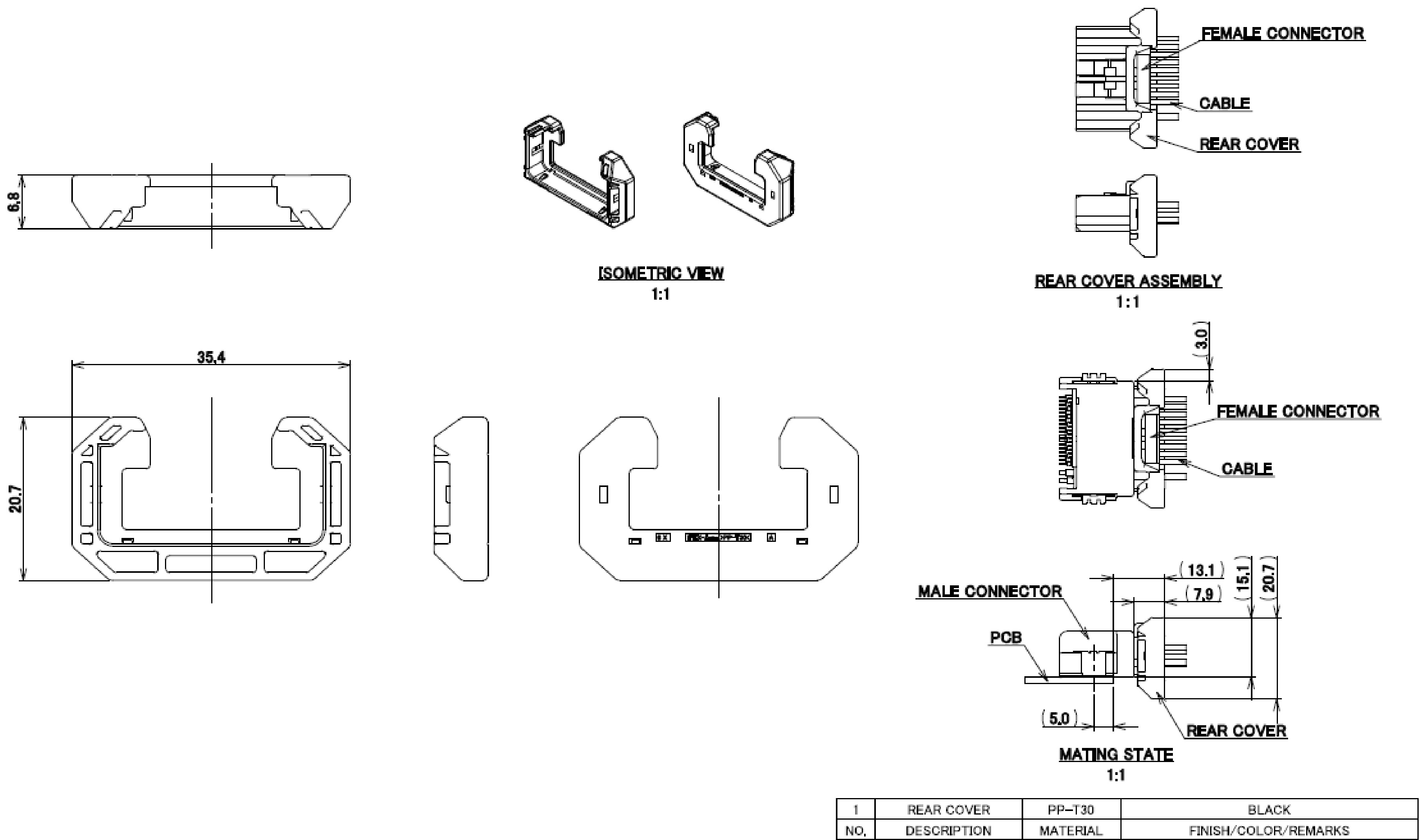
メスコネクタ/ FEMALE CONNECTOR		適合オスコネクタ/ MALE CONNECTOR		適合メス端子/ FEMALE TERMINAL	
PARTS NO.	COLOR	PARTS NO.	COLOR	PARTS NO.	FINISH
V0072-028B-112	BLACK	V0071-028E-011	BLACK	VT001-513 VT004-514	Sn REFLOW



Rev.1

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

PART NO.
V0072-03020-611

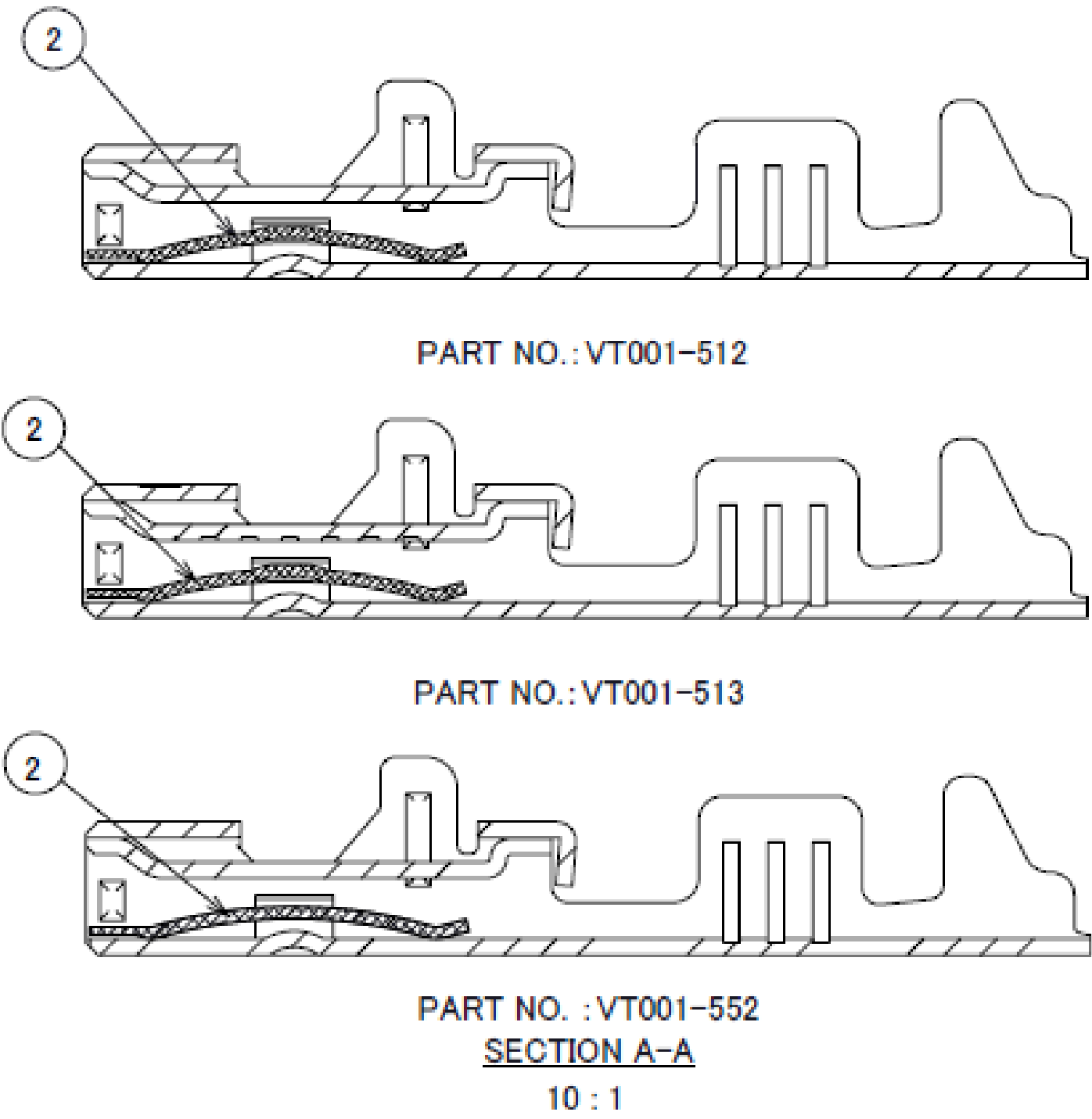
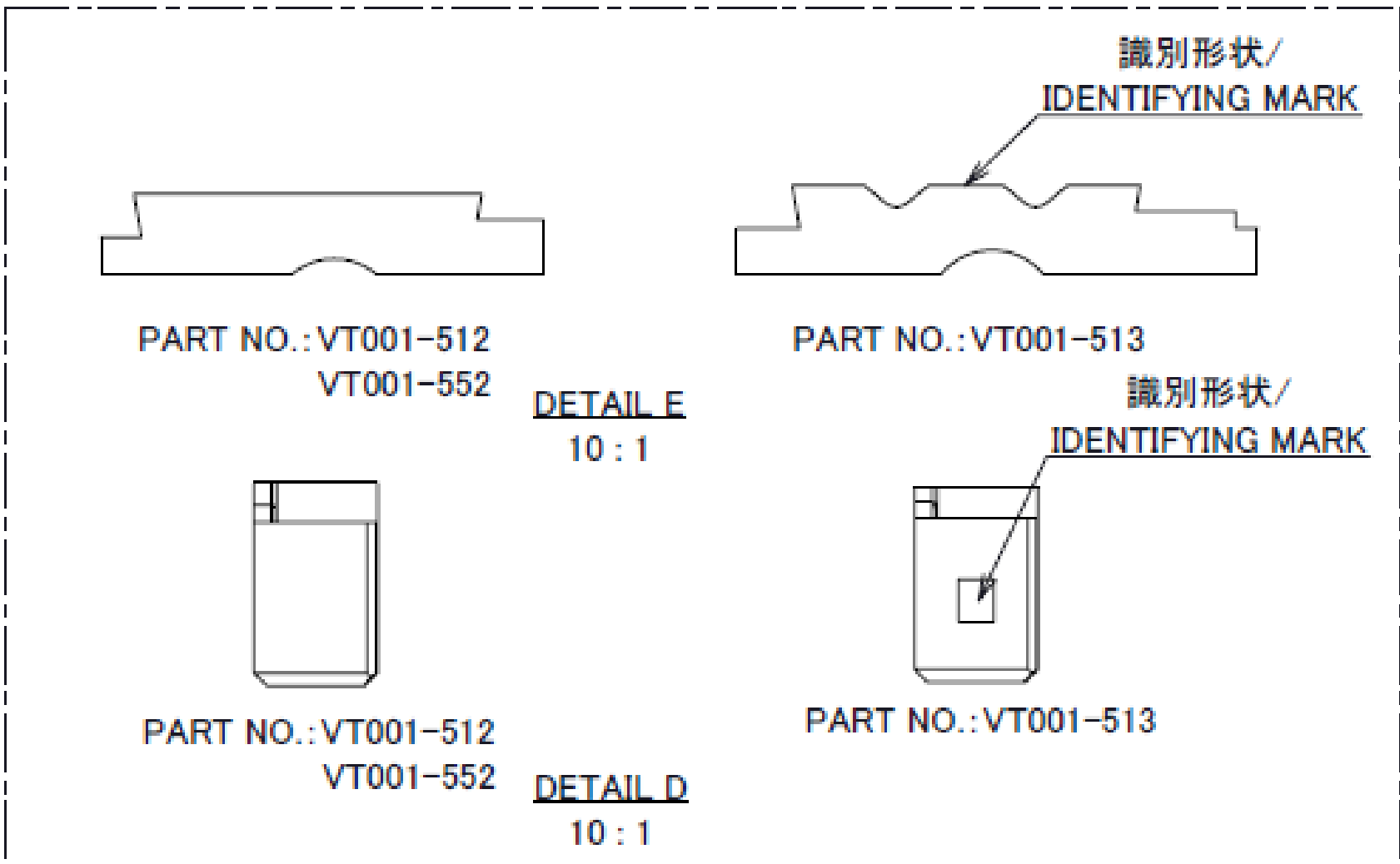
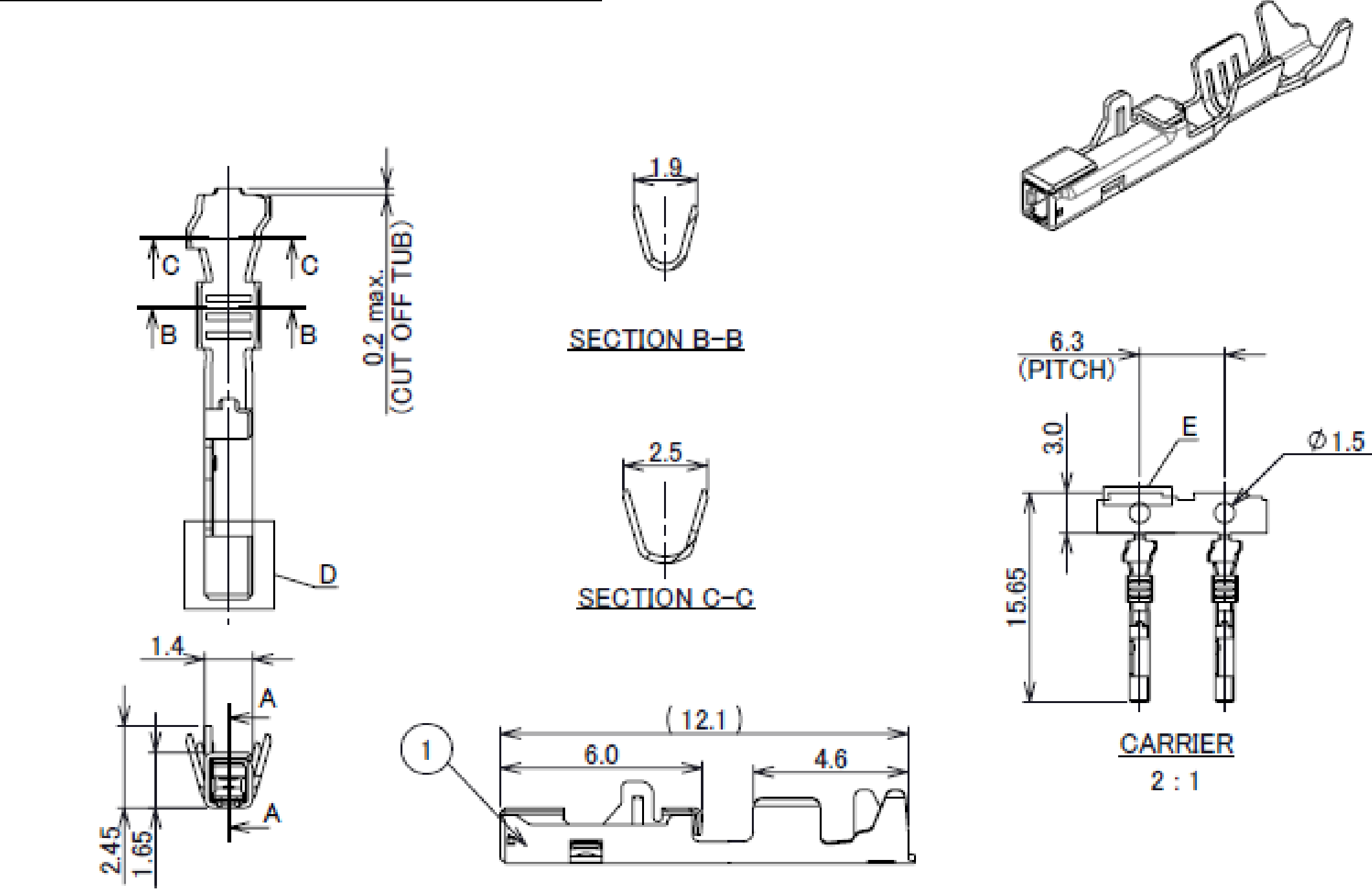


1	REAR COVER	PP-T30	BLACK
NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS

Rev.3

ISH® (Horizontal Type-Hybrid) TERMINAL (Size 0.5 mm):

PART NO.	PLATING
VT001-512	Sn REFLOW
VT001-513	
VT001-552	CONTACT AREA : Au PLATING CRIMPING AREA : Sn REFLOW



注記
1. 適合メスハウジング: ISH CONNECTOR シリーズ
2. 適用電線: 0.3mm² / 0.5mm² (被覆外径 φ1.60mm MAX.)
3. ELV/RoHS 対応品
4. 圧着仕様は取扱説明書【HDM-0002】に準拠。

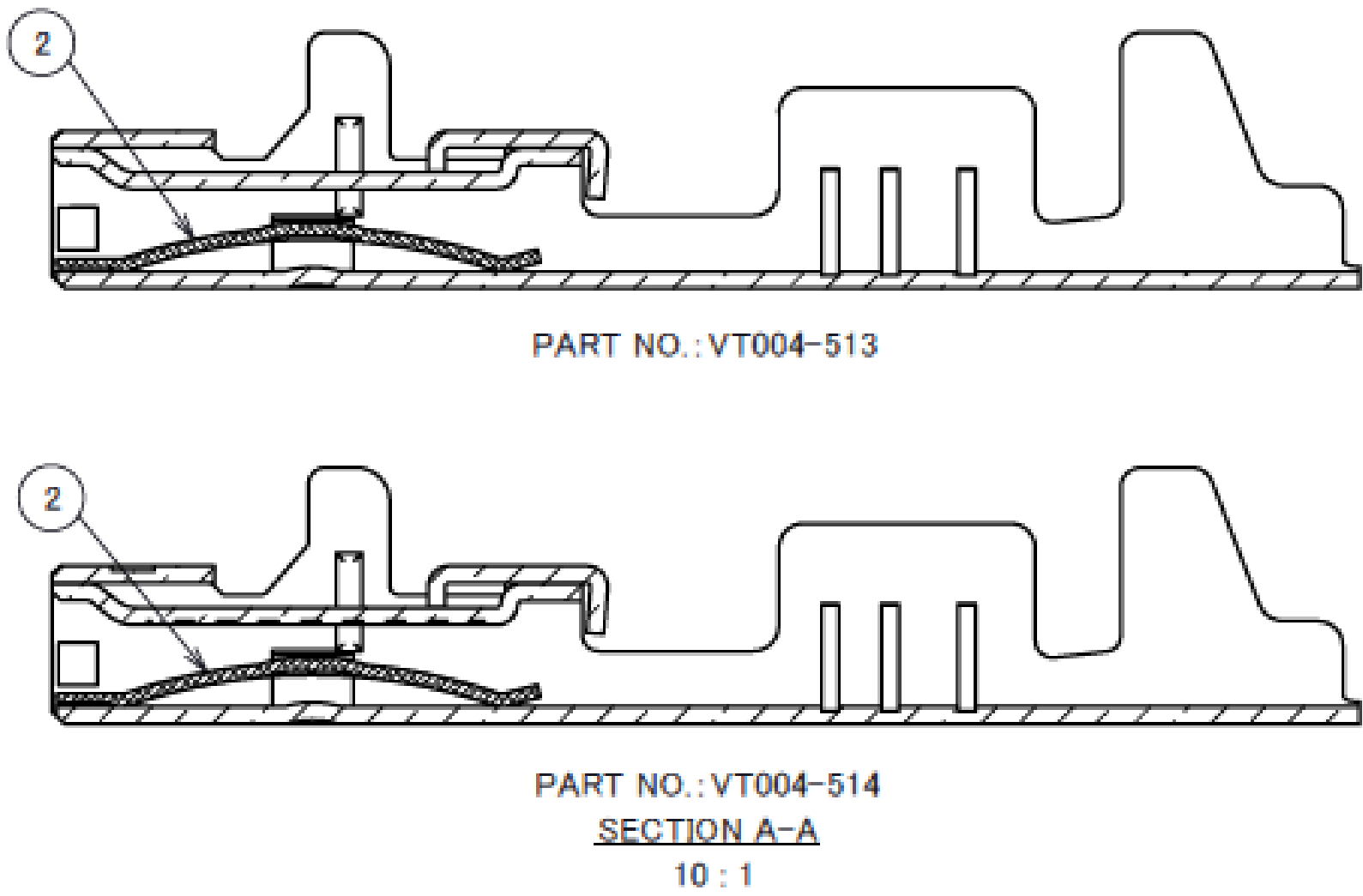
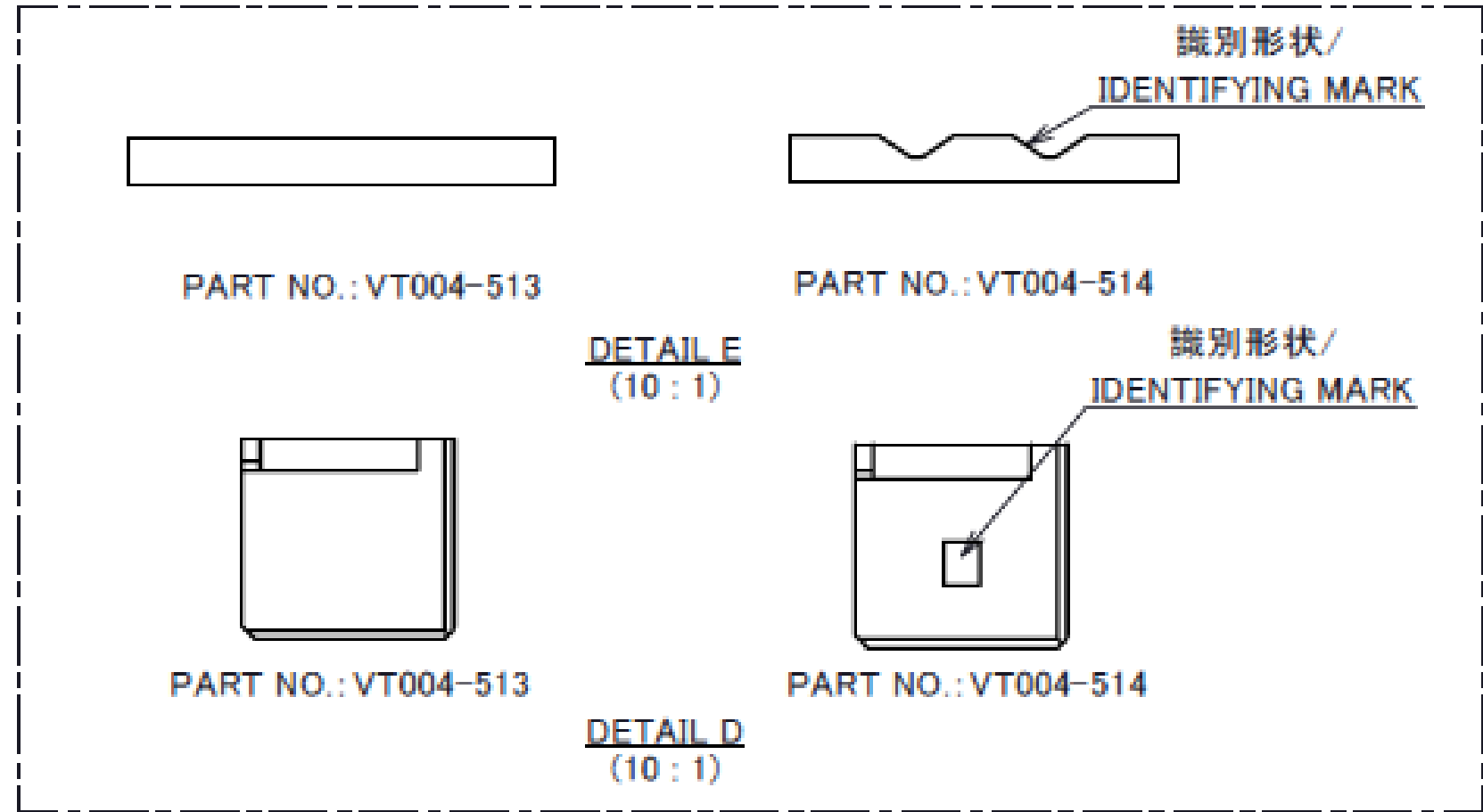
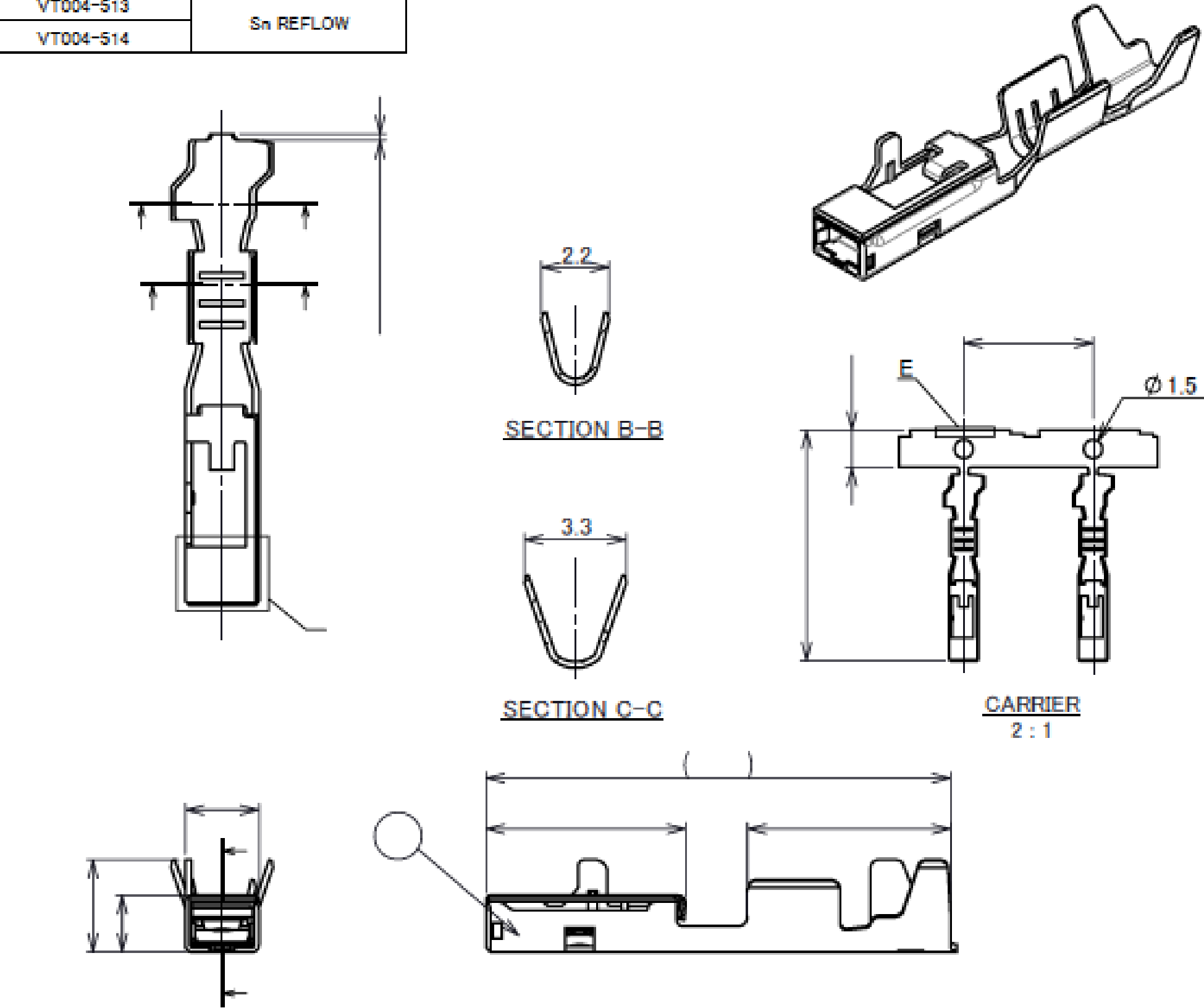
NOTE
1. APPLICABLE FEMALE HOUSING: ISH CONNECTOR SERIES
2. APPLICABLE CABLE SIZE: 0.3mm² / 0.5mm² (FINISHED φ1.60mm MAX.)
3. COMPLY WITH ELV/RoHS.
4. TERMINAL CRIMP SPECIFICATION MUST BE COMPLIANT WITH HANDLING MANUAL【HDM-0002】.

2	SPRING	COPPER ALLOY	VT001-51* PLATING : Sn REFLOW VT001-552 PLATING : Au PLATING
1	BODY	BRASS	VT001-51* PLATING : Sn REFLOW VT001-552 PLATING : Au PLATING
NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS

Rev.8

ISH® (Horizontal Type-Hybrid) TERMINAL (Size 1.5 mm):

PART NO.	PLATING
VT004-513	Sn REFLOW
VT004-514	



注記
1. 適合メスハウジング: ISH CONNECTOR シリーズ
2. 適用電線: 0.5mm² (被覆外径 φ1.93mm MAX.)
3. ELV/RoHS 対応品
4. 圧着仕様は取扱説明書【HDM-0009】に準拠。

NOTE
1. APPLICABLE FEMALE HOUSING: ISH CONNECTOR SERIES
2. APPLICABLE CABLE SIZE: 0.5mm² (FINISHED φ1.93mm MAX.)
3. COMPLY WITH ELV/RoHS.
4. TERMINAL CRIMP SPECIFICATION MUST BE COMPLIANT WITH HANDLING MANUAL【HDM-0009】.

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

Rev.3

Board to
Board



High-Density



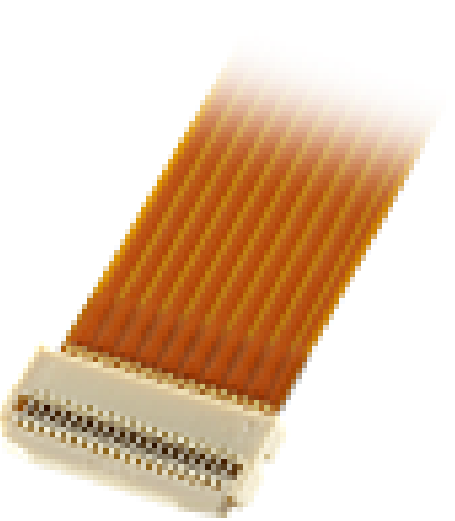
Autolocking
FPC/FFC



High-Density



FPC/FFC



Micro-Coaxial
/ Discrete Cable



High-Speed



RF



High-Frequency



Optical
Module



High-Speed



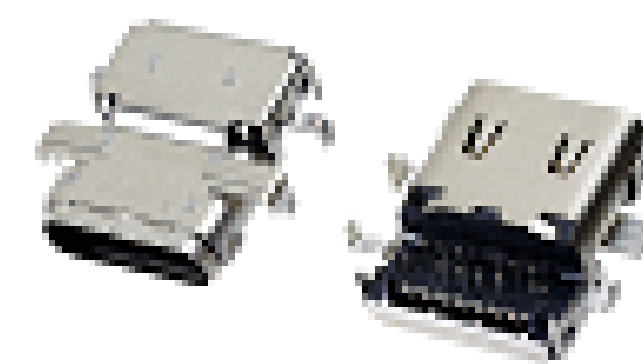
Power



High-Power



I/O
(Input/Output)



Quick charge



Effector



Custom
Connectors
Available

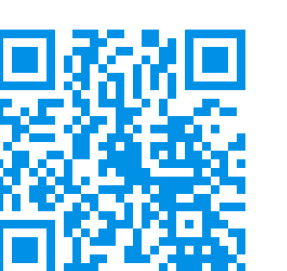
Inquiry



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