

ISH[®] (Horizontal Type-Hybrid)

내고온 · 내진동성이 뛰어난 파워 단자 포함 수평 결합 SMT 커넥터

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	

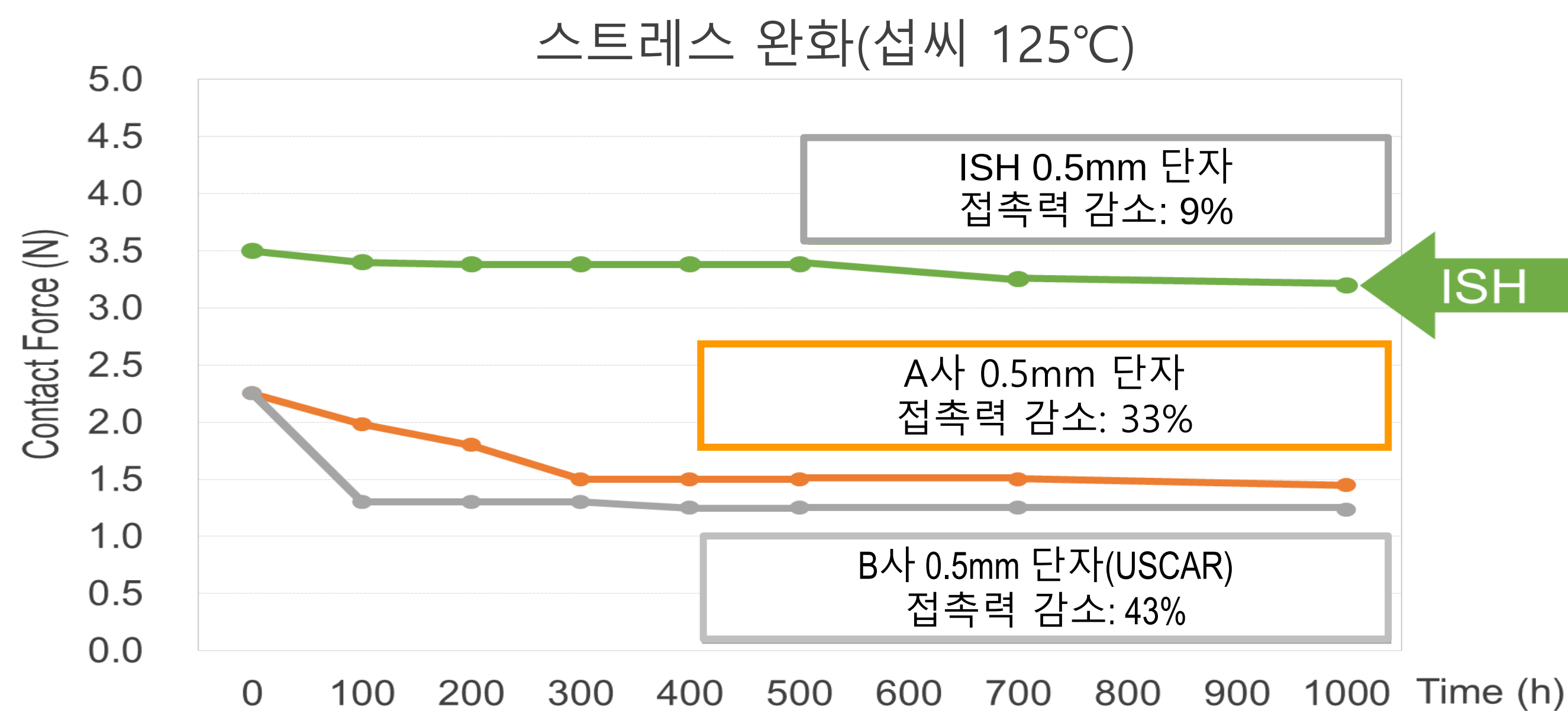
Applicable Cable Size:

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

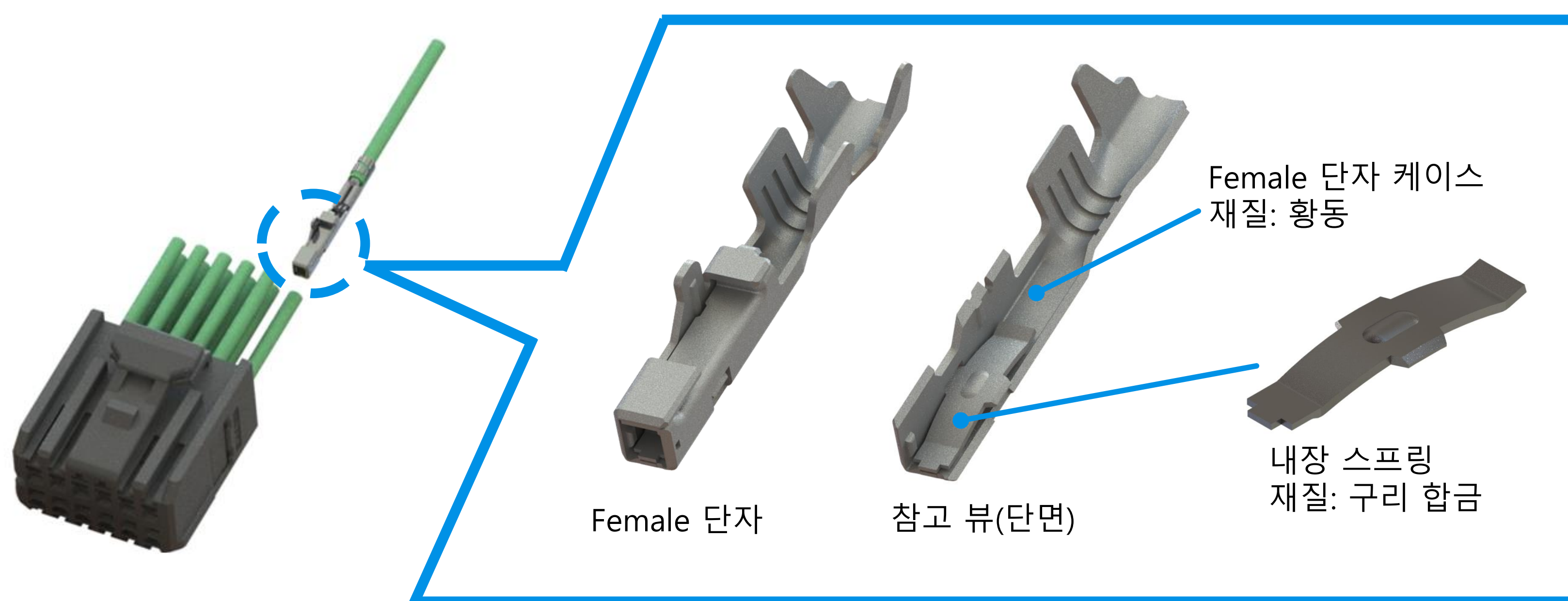


*핀수가 없거나 핀수 범위를 벗어나는 경우 문의해 주십시오.

▶ 높은 접촉 신뢰성을 추구하는 기기에 최적화된 우수한 내고온성·내진동성



▶ 독자적인 스프링 구조 단자에 의한 높은 장기 접촉 신뢰성



▶ 각종 차량 SPEC에 적합하여 고온 · 진동 환경인 산업용 등에 최적화 되어 있음 USCAR-2 규격 준거품도 있음

차량 기기



- Head Lamp & 기타 차량 조명 기기
- Inverter & DC/DC Converter
- Battery Control Module
- Front / Rear Camera ECU
- 차량 Infotainment

기타 기기



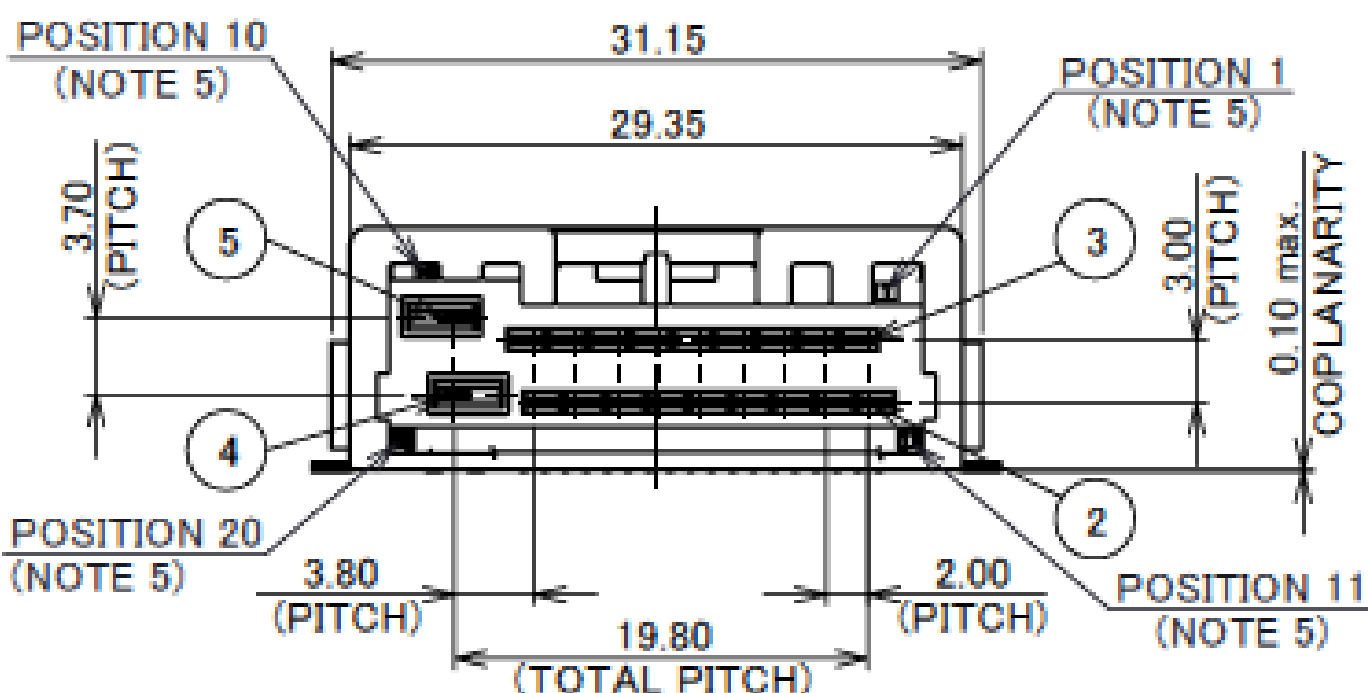
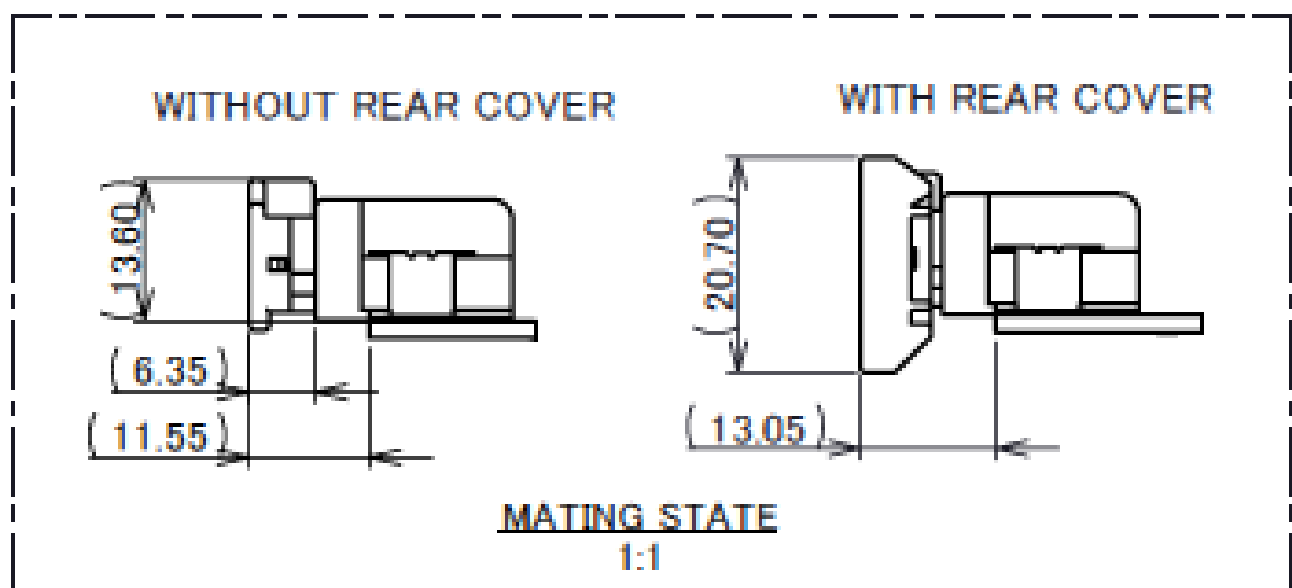
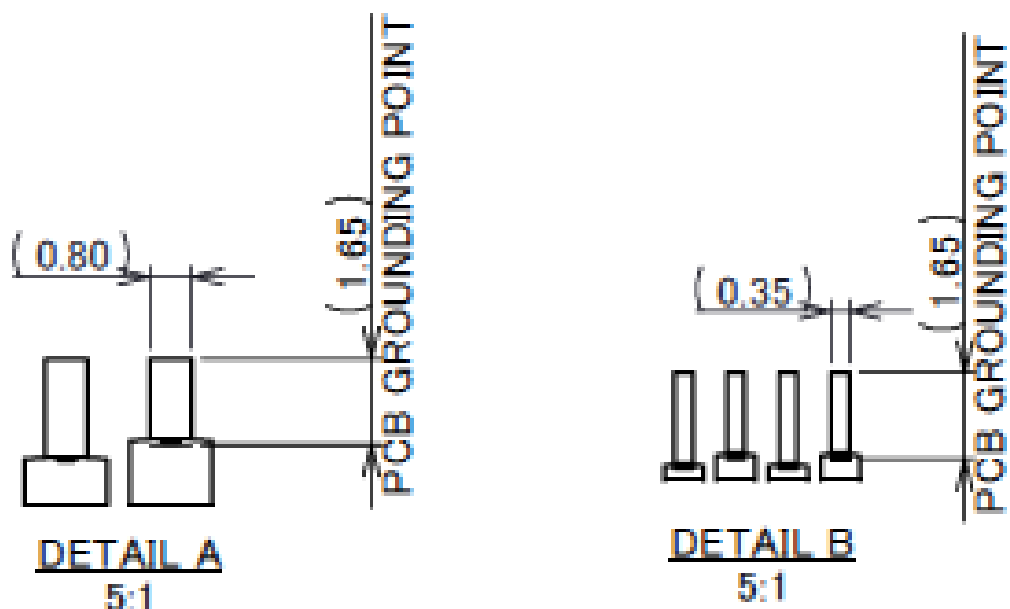
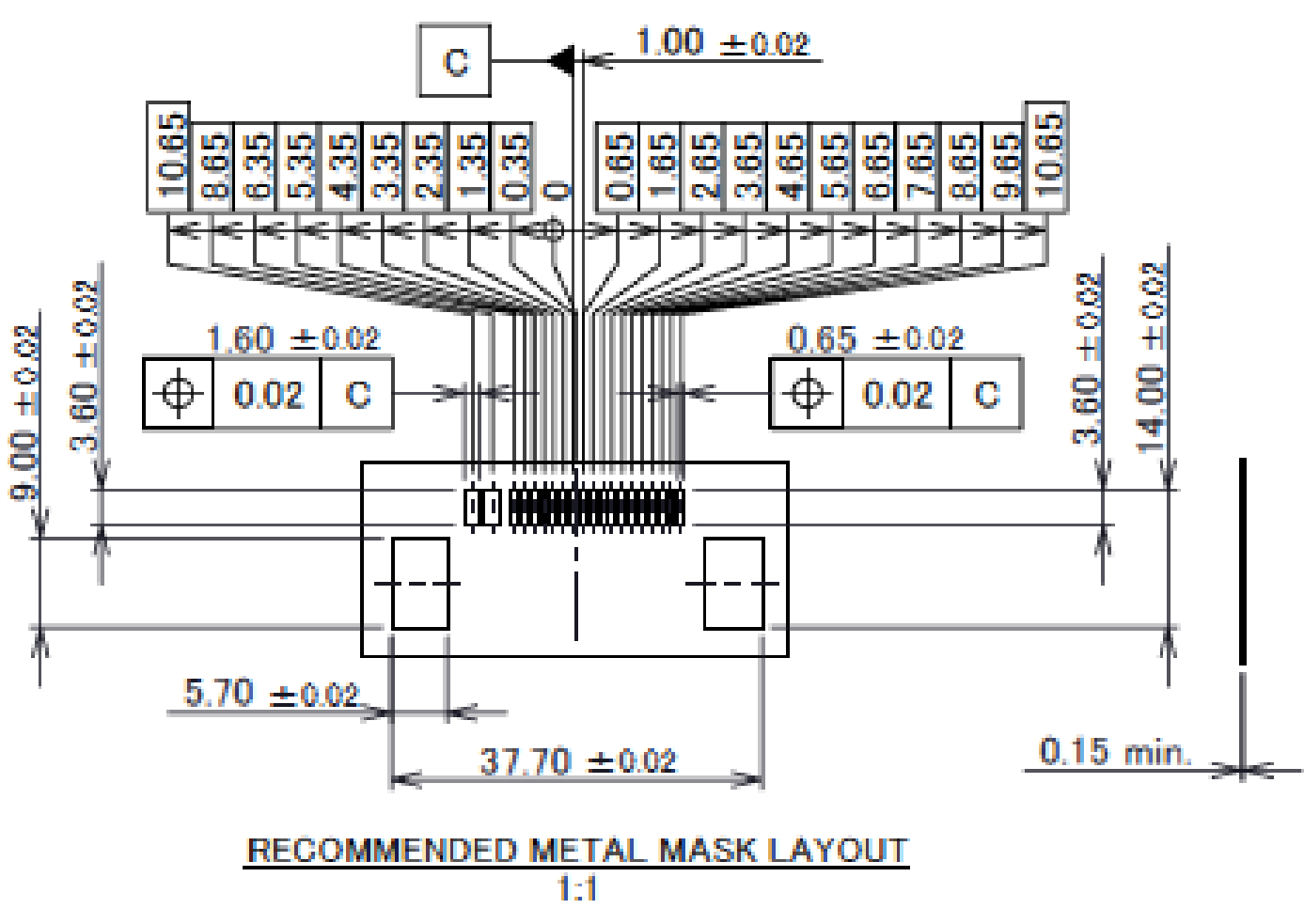
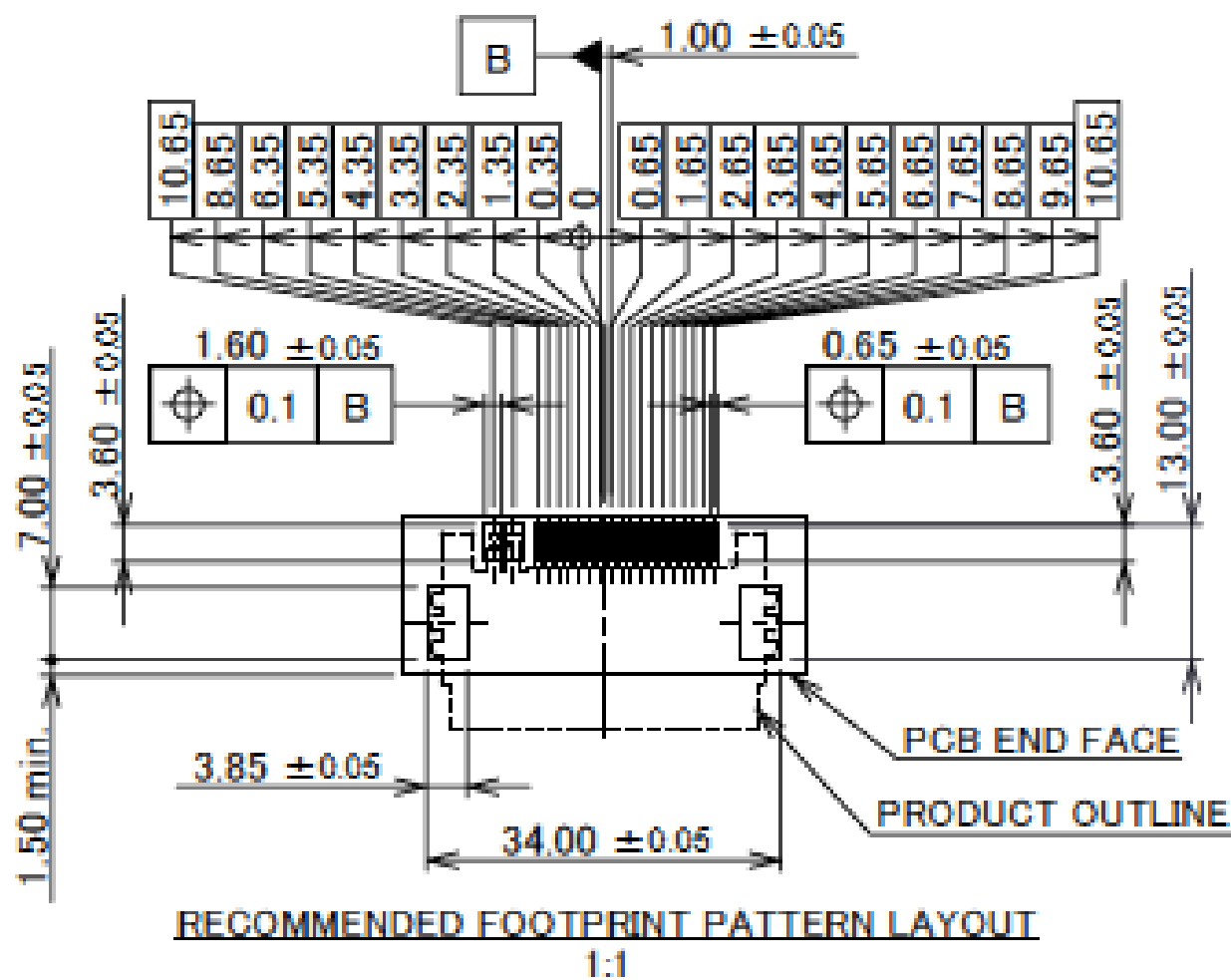
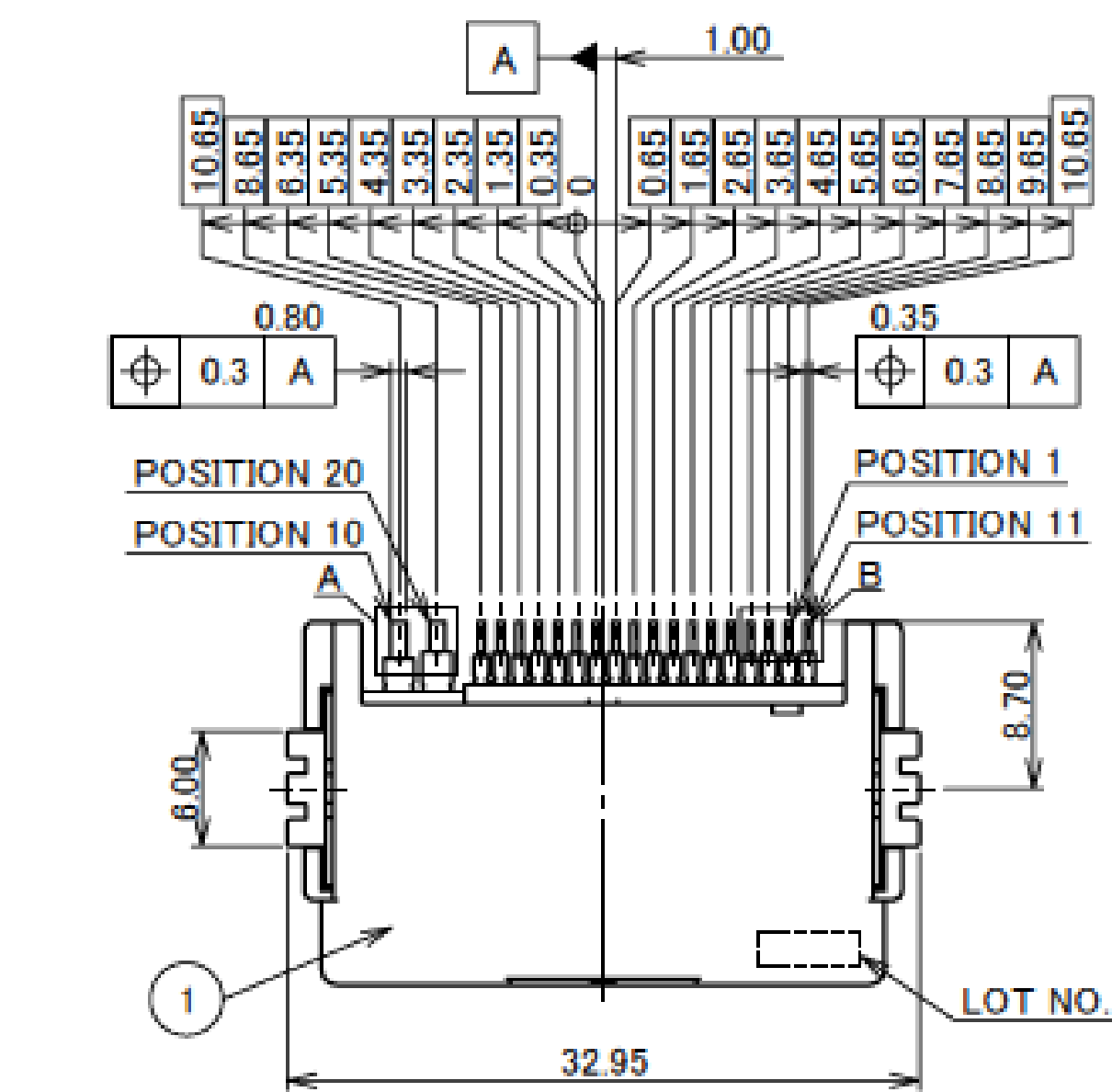
- Off Road차 (ATV/UTV차, QUAD차, 3륜차)
- 트럭, 농업 · 건설기(유압식 굴삭기, 건설 기계 로더)
- 공장 자동화

USCAR-2 규격 준거가 필요한 기기
 LV214 준거 품번에 대해서는 [당사 Home Page](#)에서 확인 가능합니다.

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



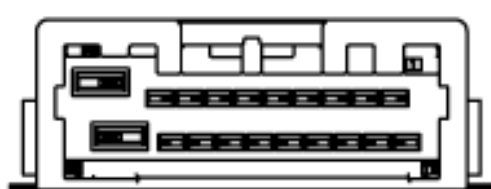
KEY CODING - A
PART NO.: V0123-020E-01

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

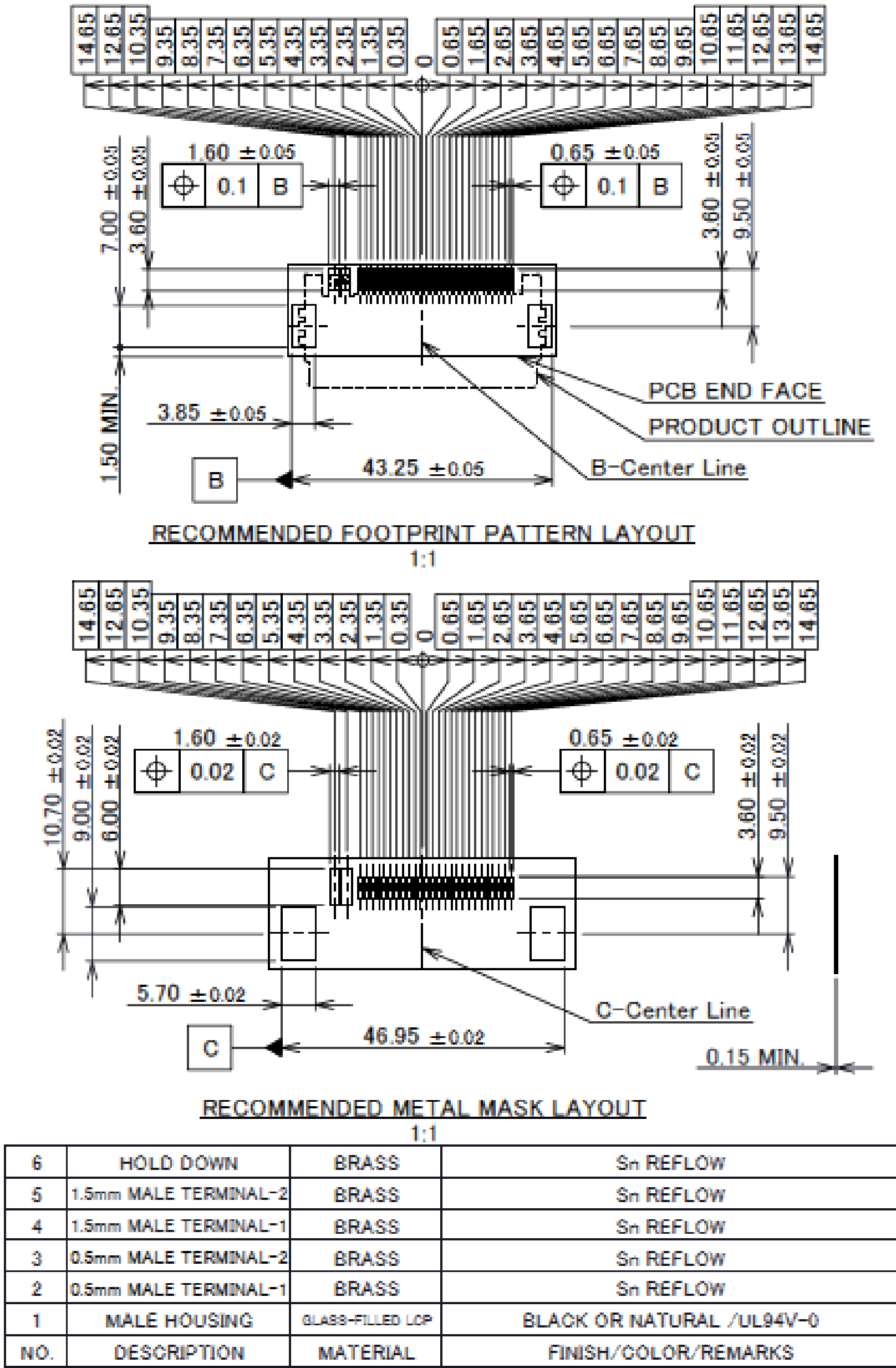
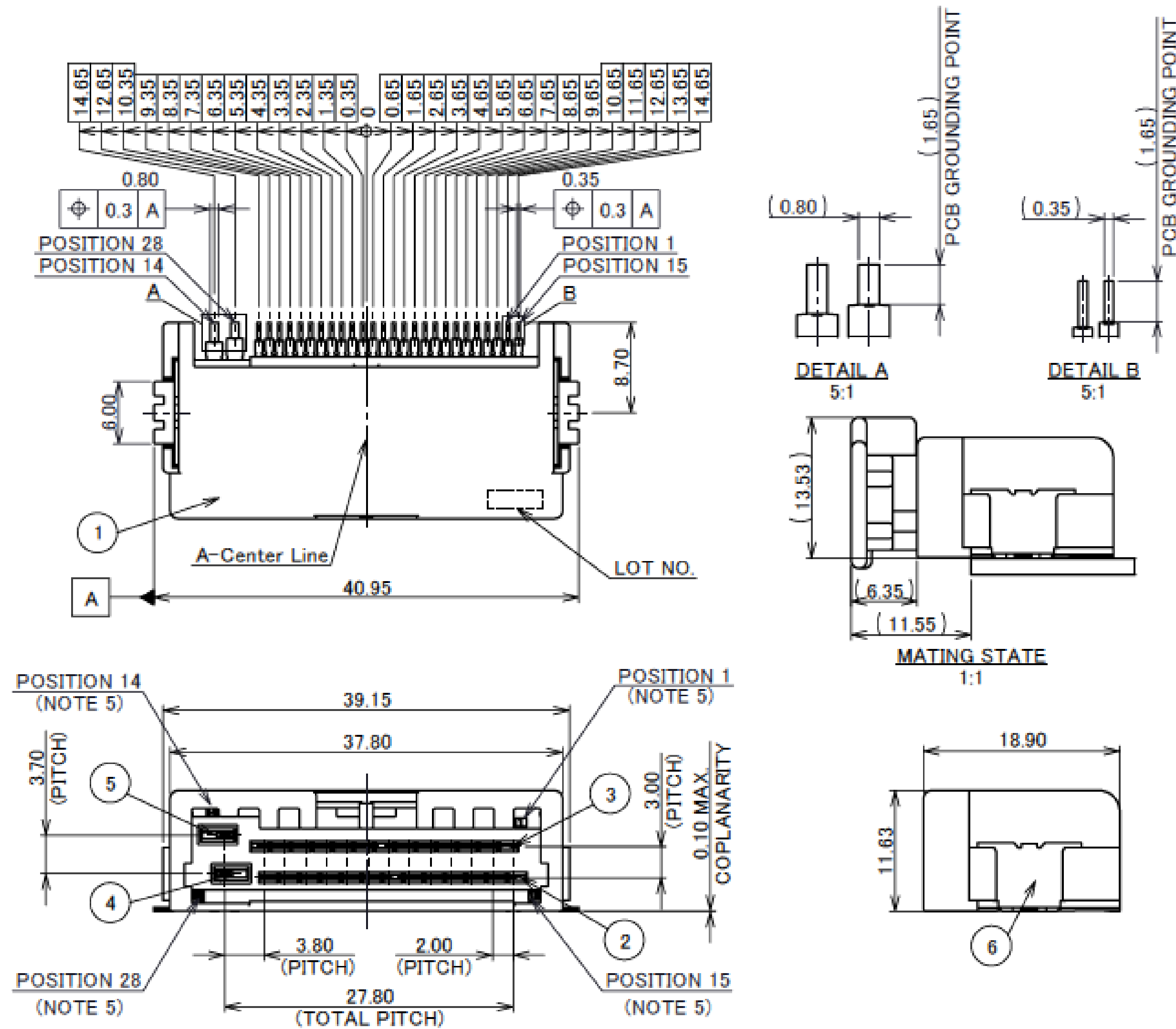
- NOTES
- 1.APPLICABLE PART NO. ARE SHOWN IN TABLE 1.
 - 2.COMPLY WITH ELV/RoHS
 - 3.HANDLE OF PRODUCT IN COMPLIANCE WITH HANDLING MANUAL [HDM-002]
 - 4.USE METAL MASK WHICH HAS A THICKNESS OF 0.15mm MIN.
 - 5.POSITION NUMBERS ARE INDICATED.



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



RECOMMENDED METAL MASK LAYOUT		
NO.	DESCRIPTION	FINISH/COLOR/REMARKS
6	HOLD DOWN	BRASS
5	1.5mm MALE TERMINAL-2	BRASS
4	1.5mm MALE TERMINAL-1	BRASS
3	0.5mm MALE TERMINAL-2	BRASS
2	0.5mm MALE TERMINAL-1	BRASS
1	MALE HOUSING	GLASS-FILLED LCP

- 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.
 - 5.POSITION NUMBERS ARE INDICATED.

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

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

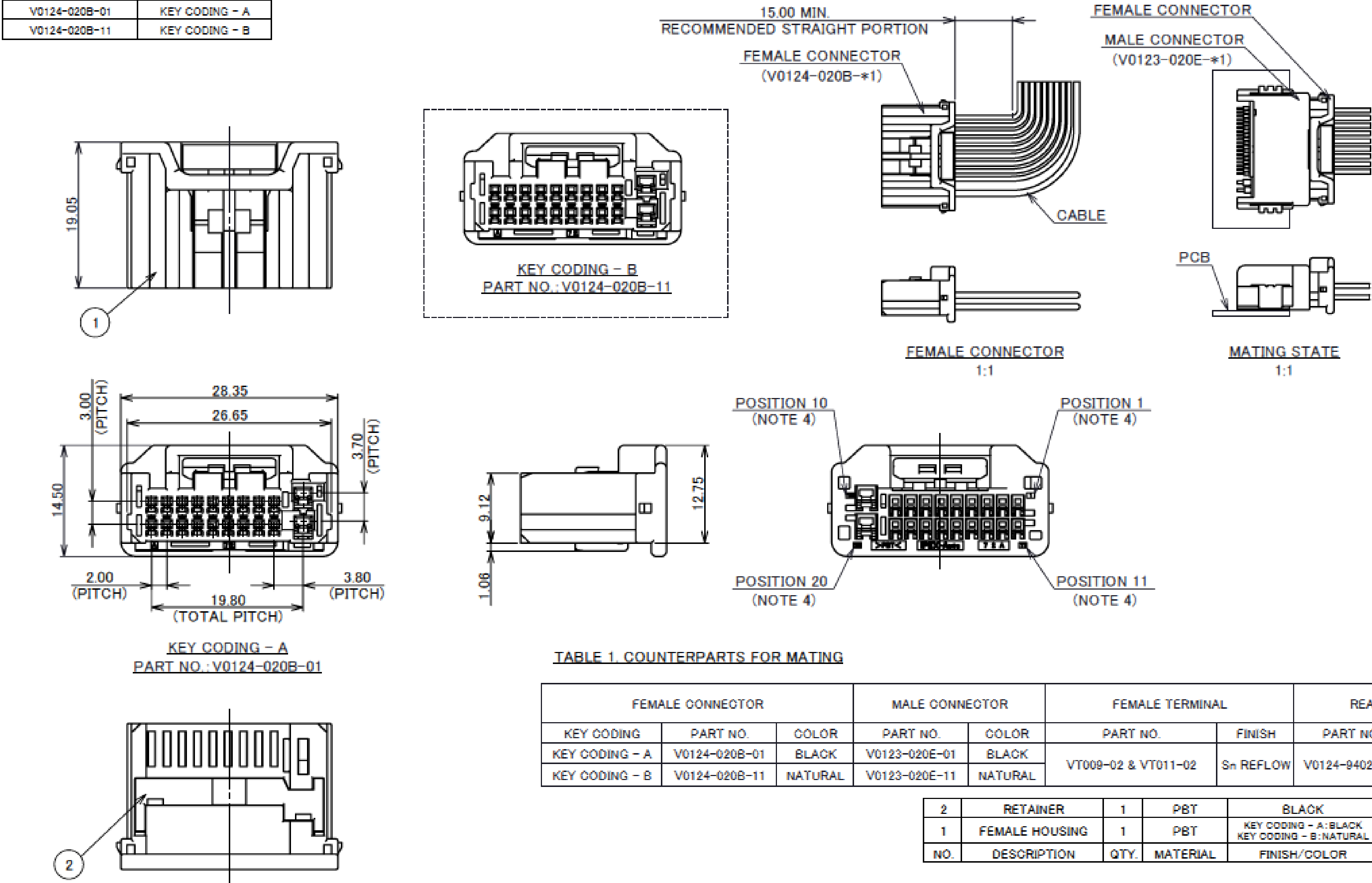


TABLE 1. COUNTERPARTS FOR MATING

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	V0124-020B-01	BLACK	V0123-020E-01	BLACK	VT009-02 & VT011-02	Sn REFLOW	V0124-94020-01	BLACK
KEY CODING - B	V0124-020B-11	NATURAL	V0123-020E-11	NATURAL				

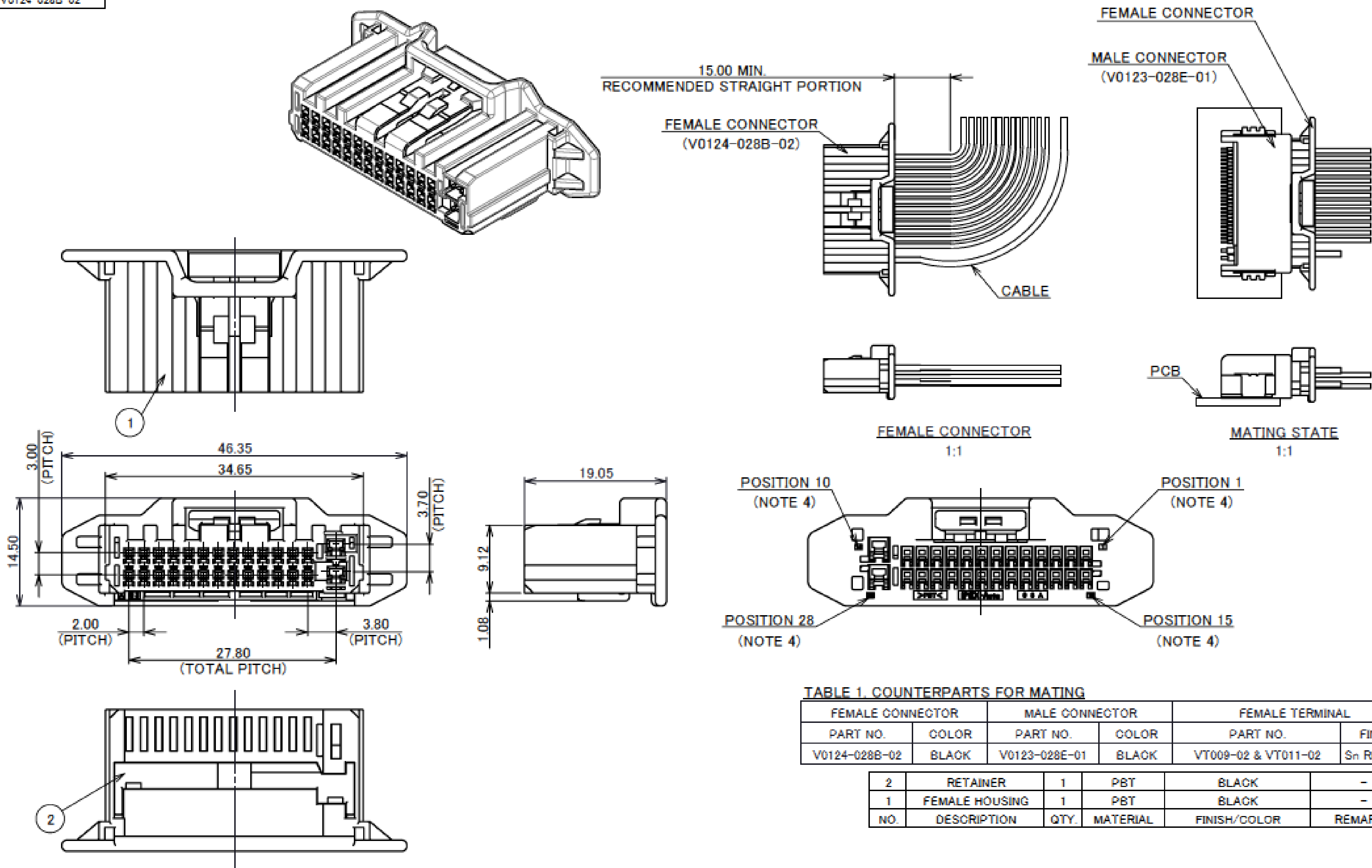
2	RETAINER	1	PBT	BLACK	-
1	FEMALE HOUSING	1	PBT	KEY CODING - A: BLACK KEY CODING - B: NATURAL	-
NO.	DESCRIPTION	QTY.	MATERIAL	FINISH/COLOR	REMARKS

- 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.

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

PART NO.
V0124-028B-02

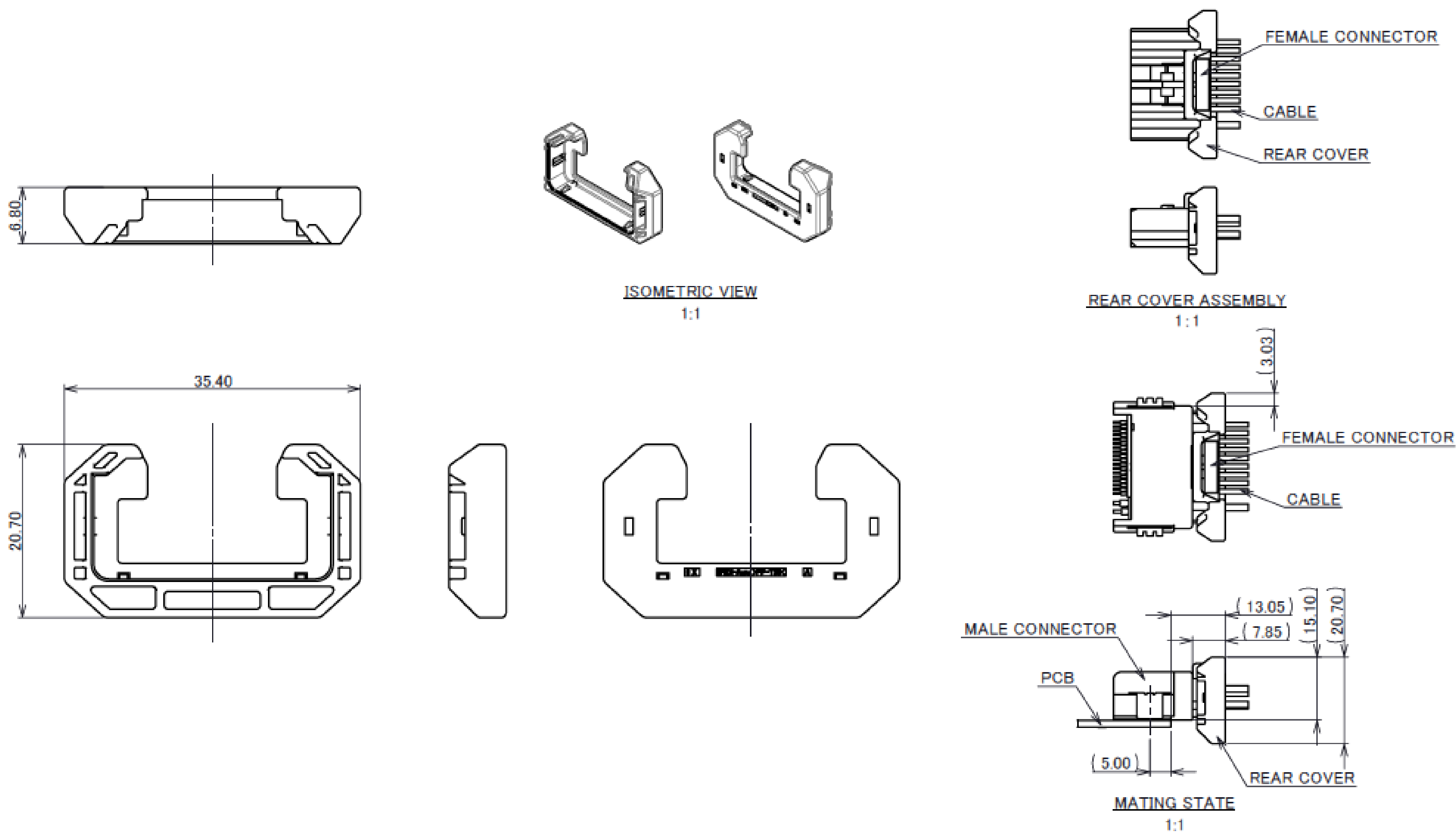


NOTE
1.APPLICABLE MALE CONNECTOR PARTS NO. ARE SHOWN IN TABLE 1.
2.COMPLY WITH ELV/RoHS
3.HANDLE OF PRODUCT IN COMPLIANCE WITH HANDLING MANUAL [HDM-0021]
4.POSITION NUMBERS ARE INDICATED.

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

PART NO.
V0124-84020-01

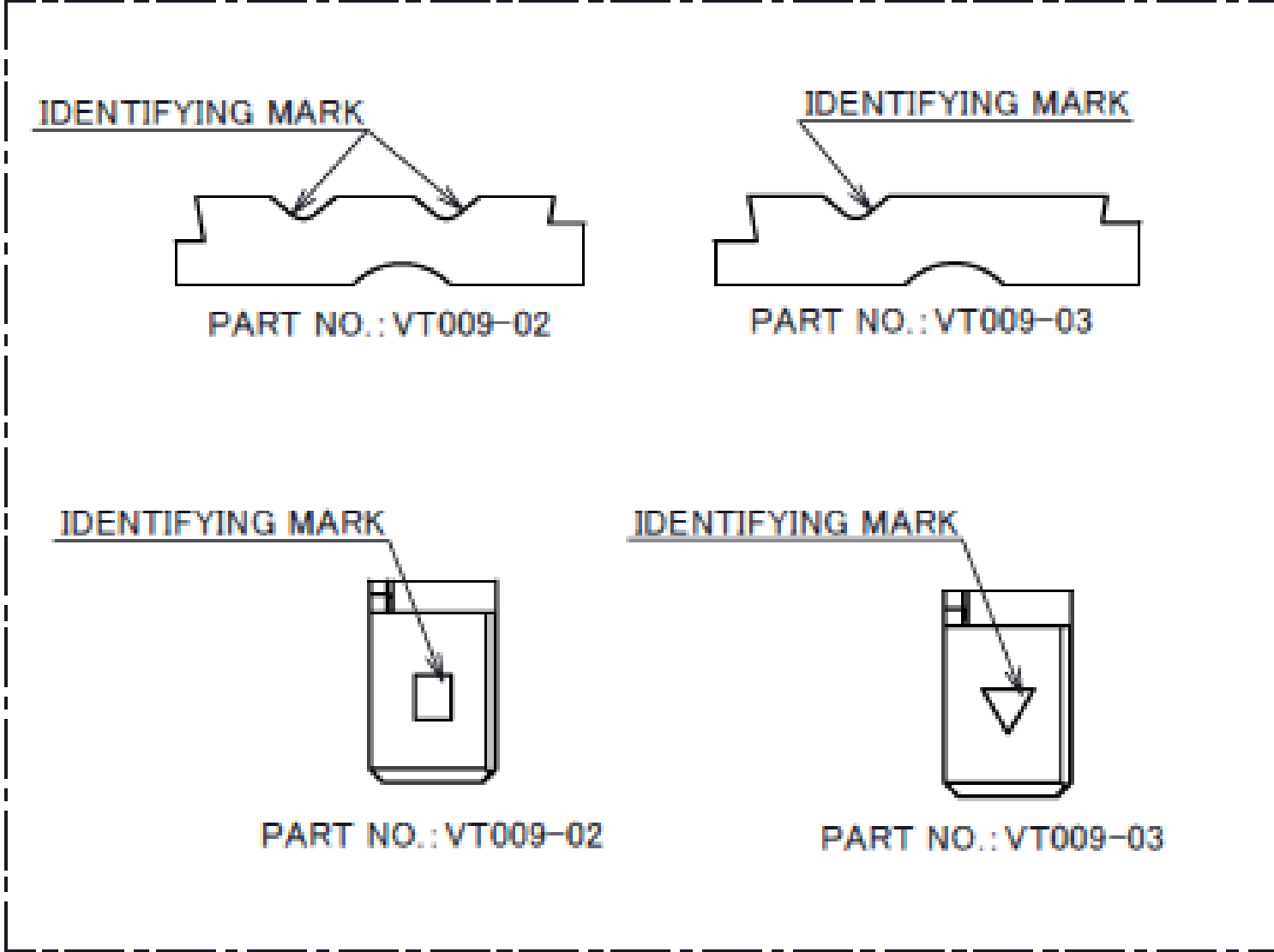
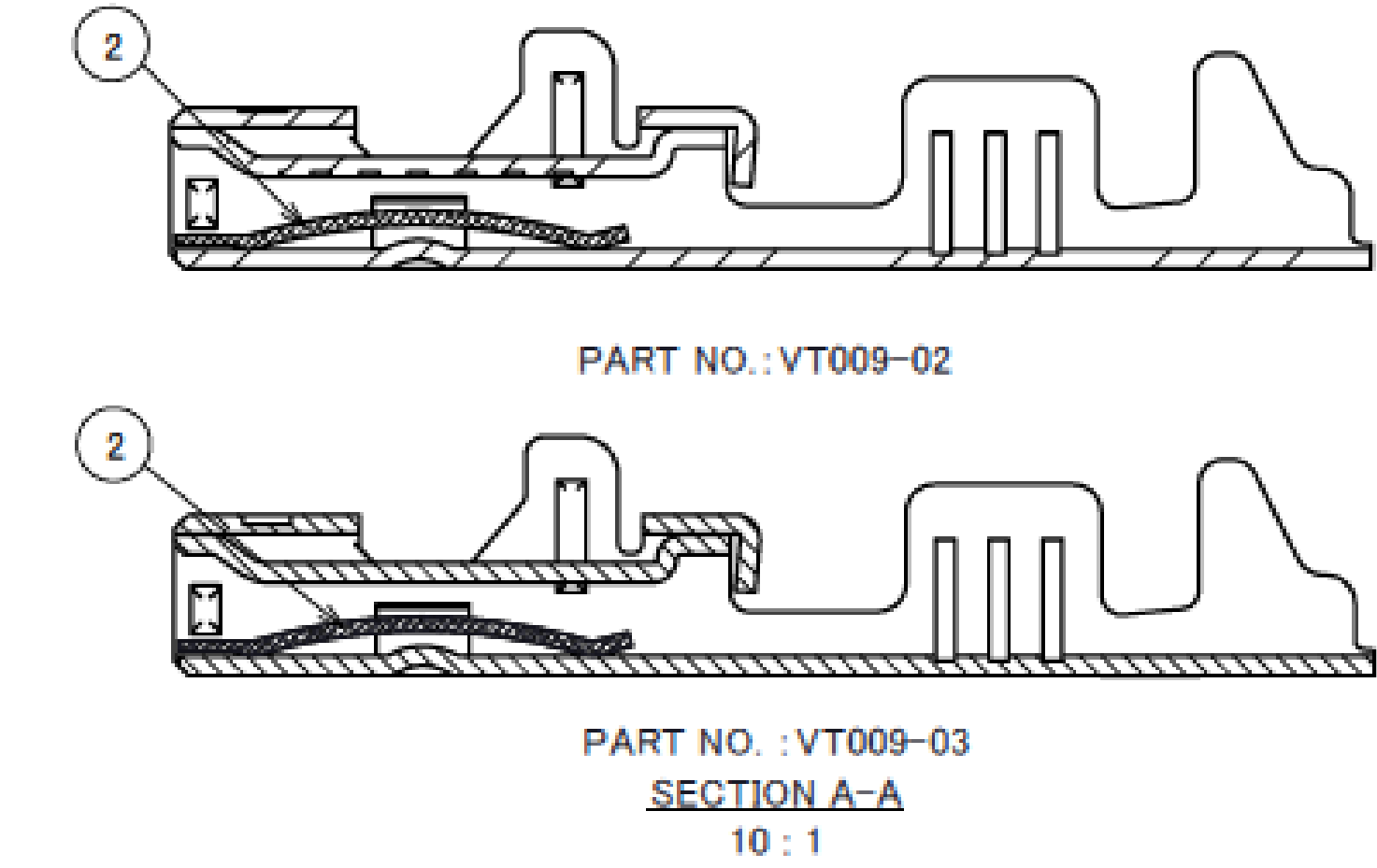
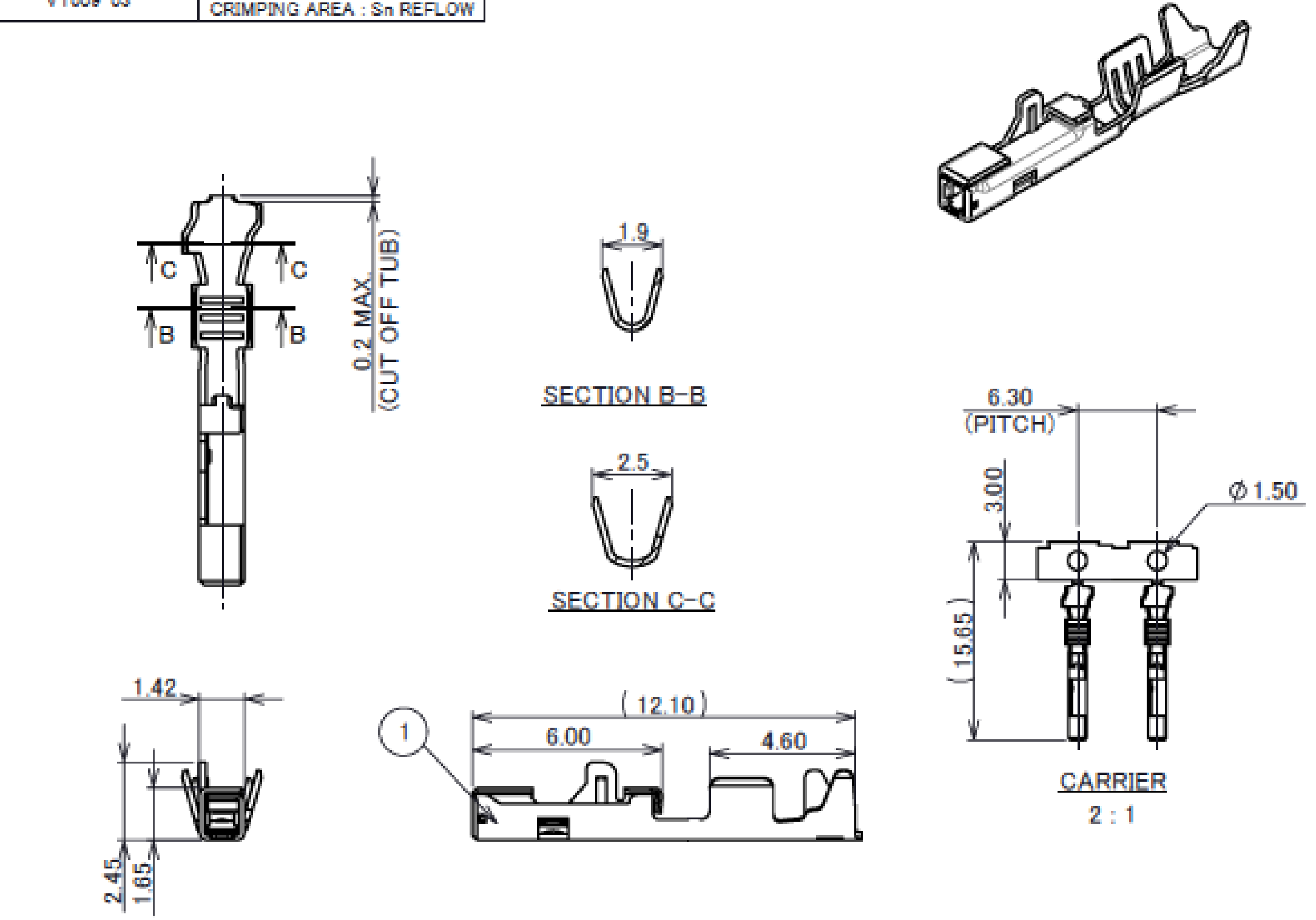


NOTES
1.APPLICABLE PART NO.:
•FEMALE HOUSING...V0124-020B-01(KEY CODING - A)
...V0124-020B-02(KEY CODING - B)
2.COMPLY WITH ELV/RoHS
3.INSERTION FORCE TO FEMALE HOUSING:55N MAX.
RETENTION FORCE TO FEMALE HOUSING:30N MIN.

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

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



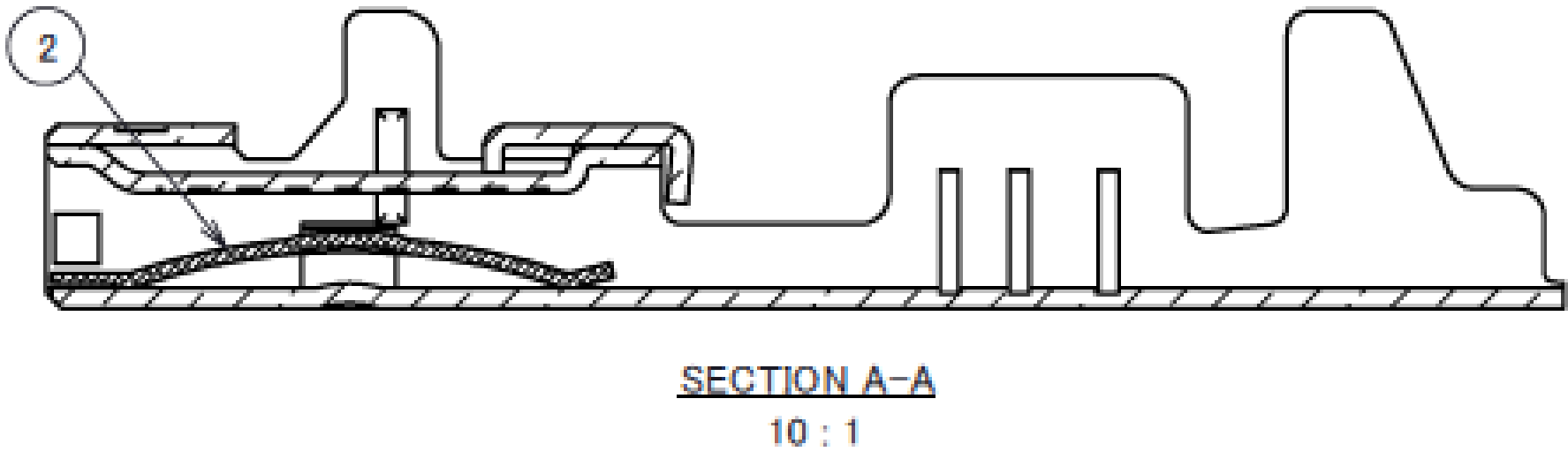
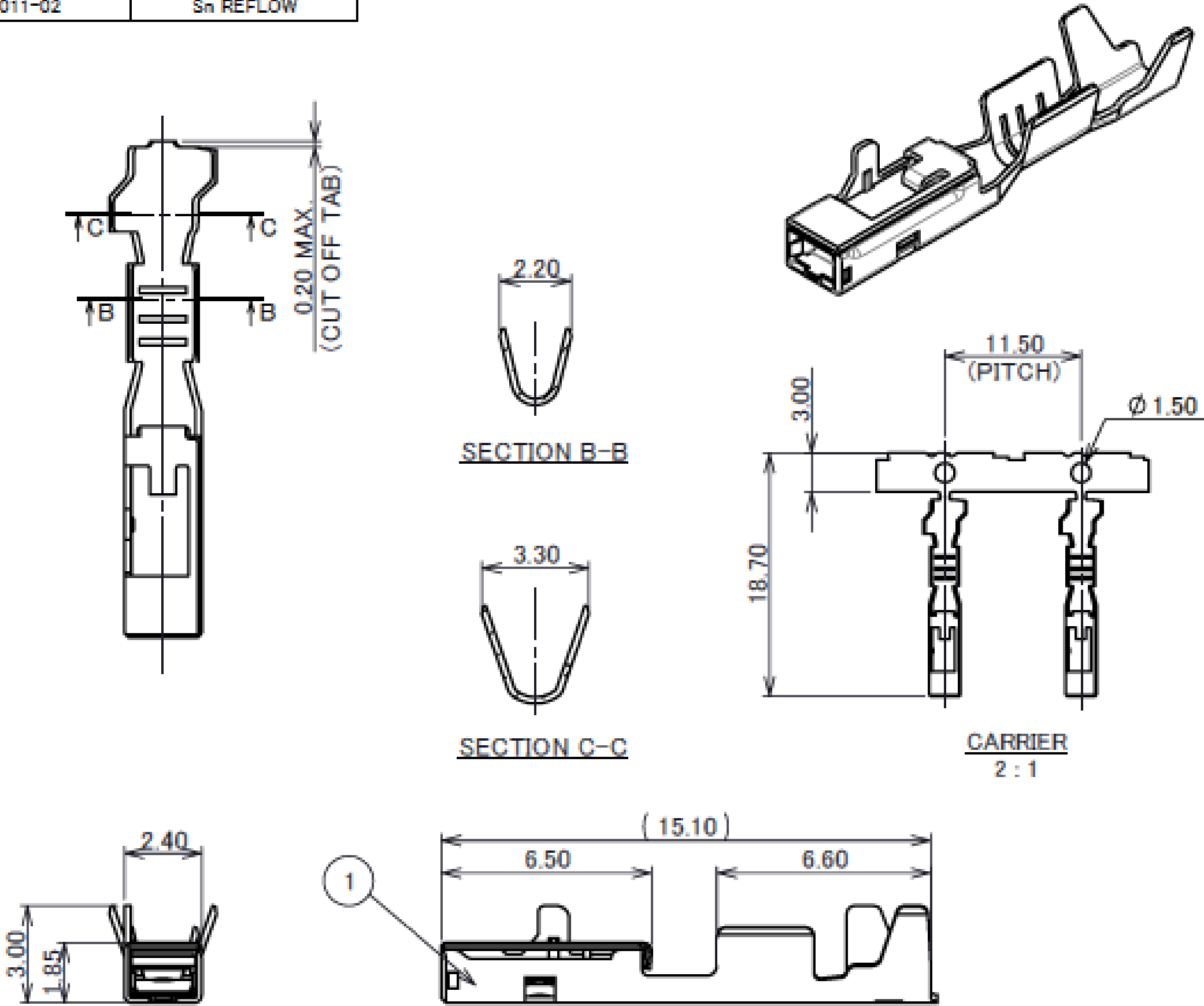
NOTE
1. APPLICABLE FEMALE HOUSING: ISH CONNECTOR SERIES
2. APPLICABLE CABLE SIZE: 0.3mm² / 0.5mm² (FINISHED ϕ 1.60mm MAX.)
3. COMPLY WITH ELV/RoHS.
4. TERMINAL CRIMP SPECIFICATION MUST BE COMPLIANT WITH HANDLING MANUAL [HDM-0020].

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 : Sn REFLOW CONTACT AREA : Au PLATING CRIMPING AREA : Sn REFLOW
NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS

Rev.0

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

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

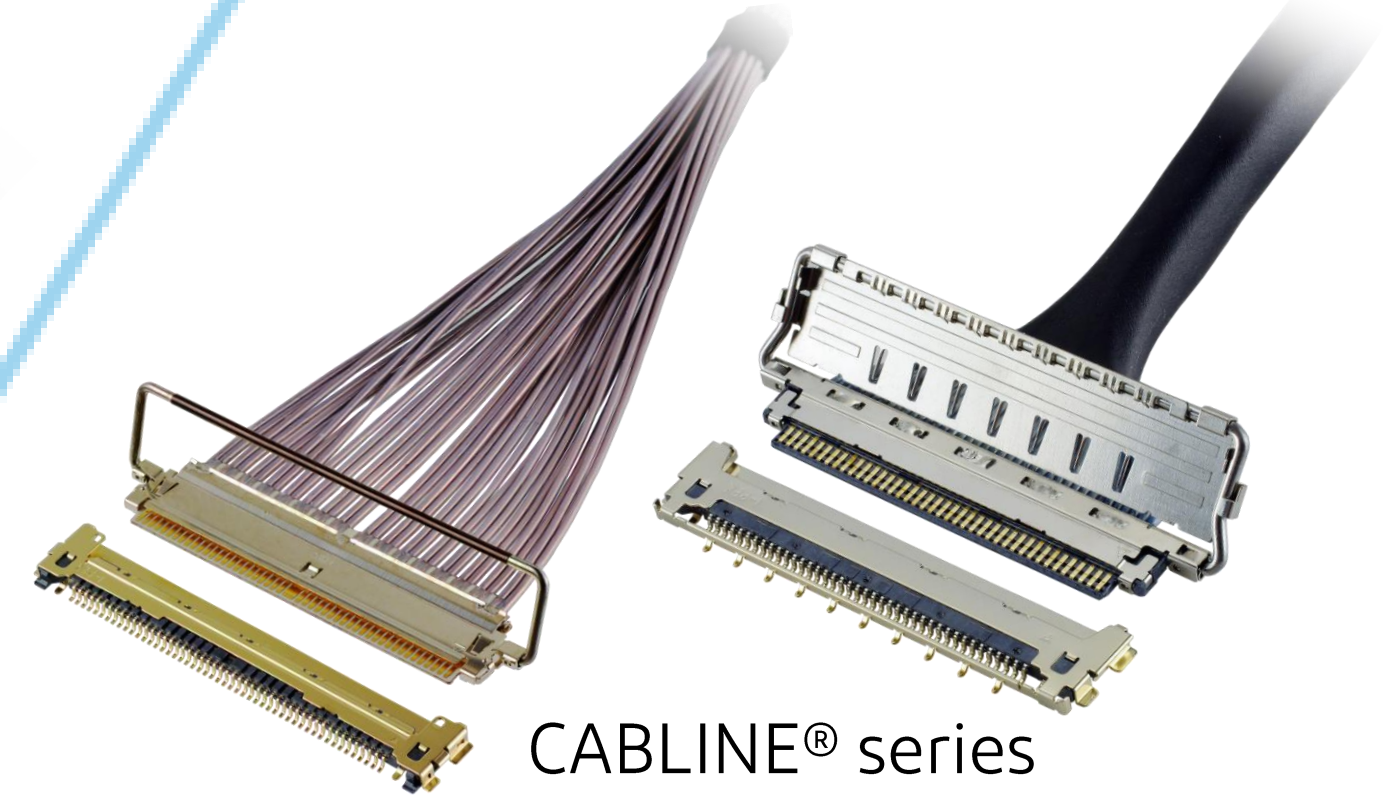


RF
Connectors

MHF® series



CABLINE® series
Micro-coaxial/Twinax
Connectors

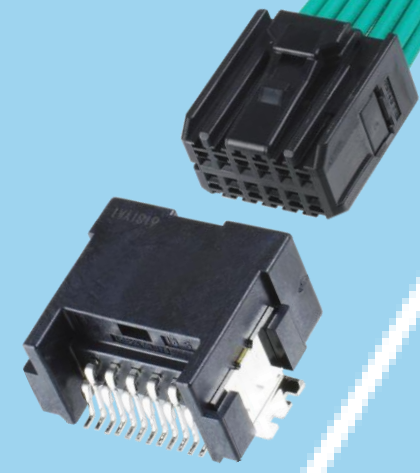


Wire-to-Board
Connectors/
Terminals

AP series



ISH® series



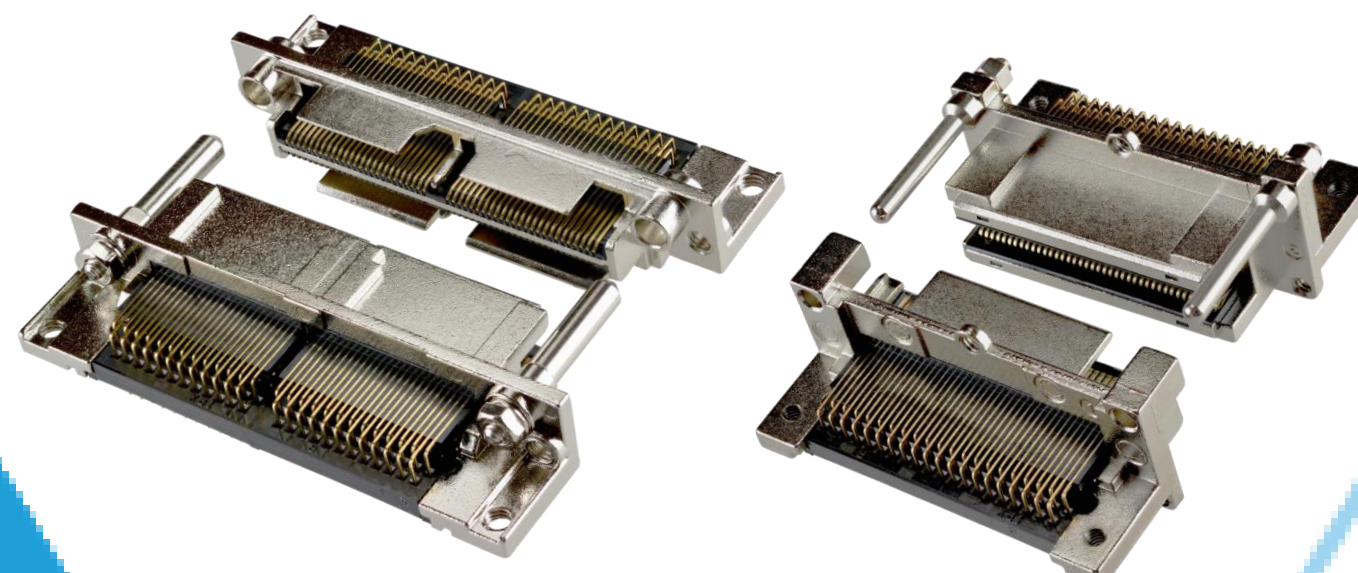
NOVASTACK® series



Board-to-Board
Connectors



I/O
Connectors



MINIDOCK™ series



FPC/FFC
Connectors

MINIFLEX® series EVAFLEX® series



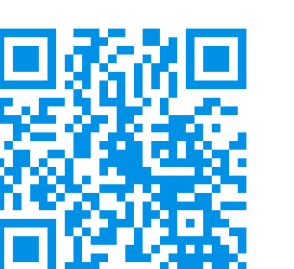
Inquiry



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