

ISH[®] (Vertical Type)

High heat and vibration resistant, vertical SMT connector

Product Specifications:		Single-row	Double-row
Pitch (mm max.)		2.0	
Contact Size (mm)		0.5 × 0.4(020)	
Mated Height (mm max.)		20.75	
Width formula (mm)		(ISH)7.6+1.0*?pin, (ISHV)10.5+1.0*?pin	
Operating Temperature		-40 - 125°C	
Vibration Resistance		10G	
Current Rating		4.5A per pin	
Voltage Rating		100V	
Withstand Voltage		AC 1000V/minute	
Plating		Sn	
Housing		Male:glass-filled LCP, Female:PBT	
Pin counts	Range	Up to 20	Up to 40
	Available	-	8*, 10, 20, 26

Applicable Cable Size:

AWG#22,#20
*Insulation Diameter 1.6 mm max.

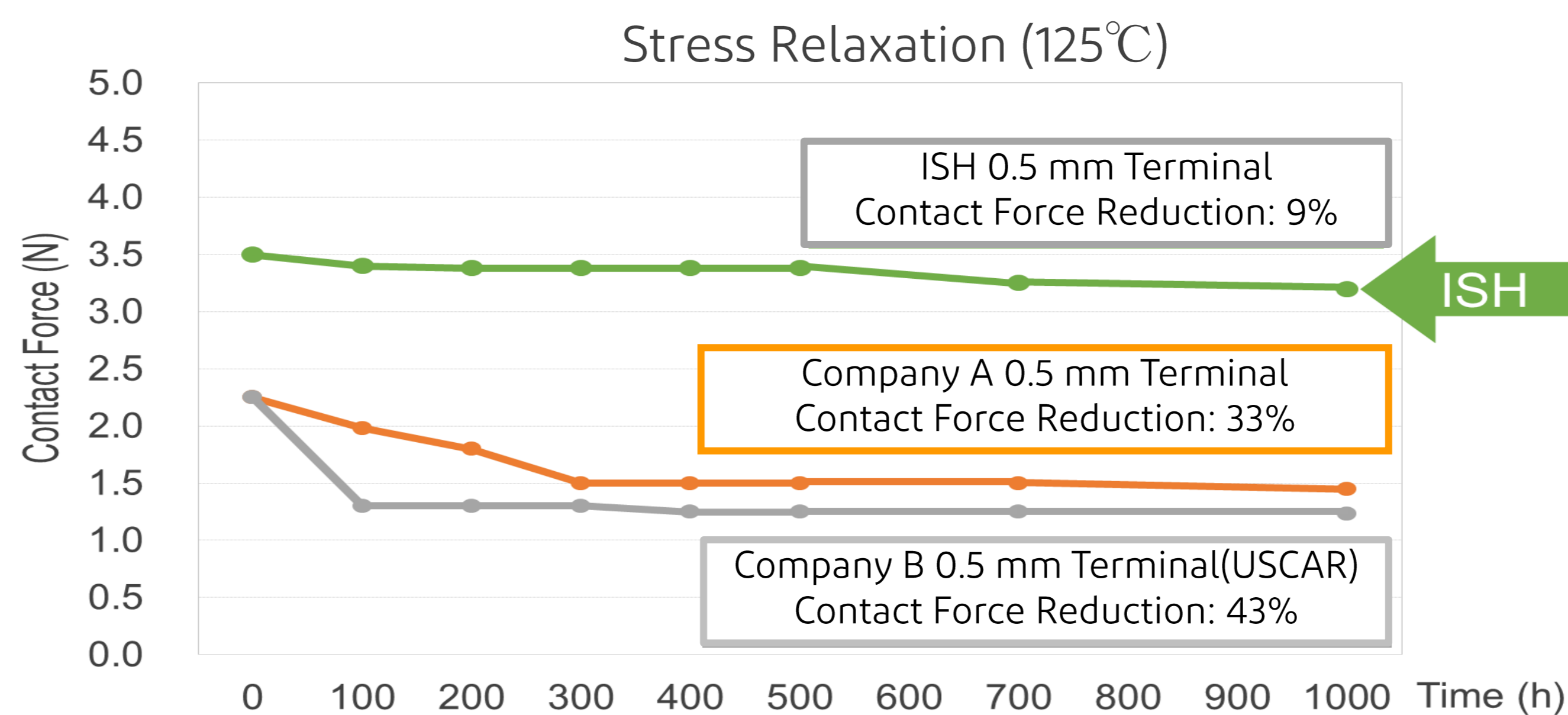
Applicable Standards (Reference Only):

LV214 : 8P (optional)

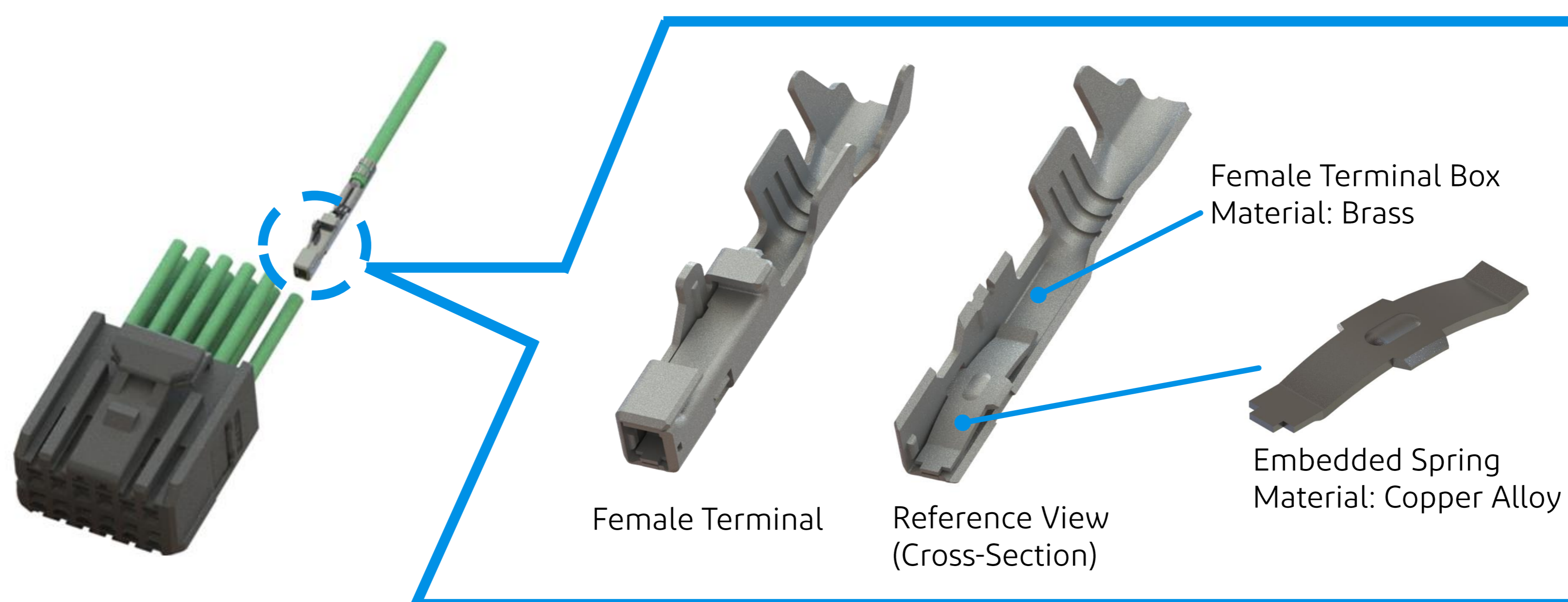
*Please inquire for pin counts not listed or outside of the pin count range.
*ISH V is available in 8P.



► High heat and strong vibration resistance for high-reliability applications



► Unique embedded spring terminals for long-term stable electrical connection



► LV214 compliant, designed for automotive and industrial grade applications

For Automotive



- Headlamp & other automotive lamps
- Inverter & DC/DC converter
- Battery control module
- Front/Rear view camera control module
- Instrument cluster

For Non-Automotive



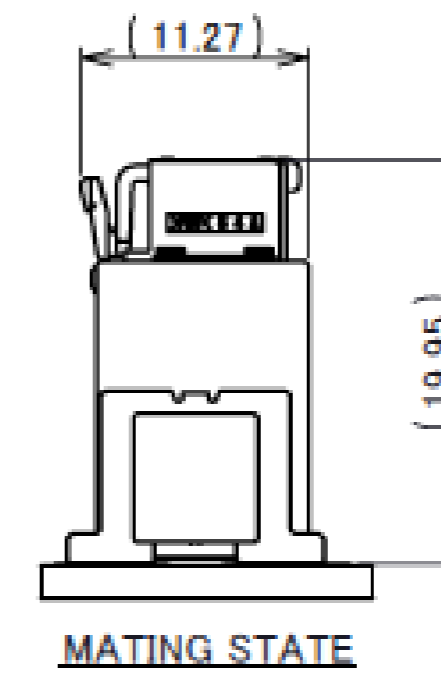
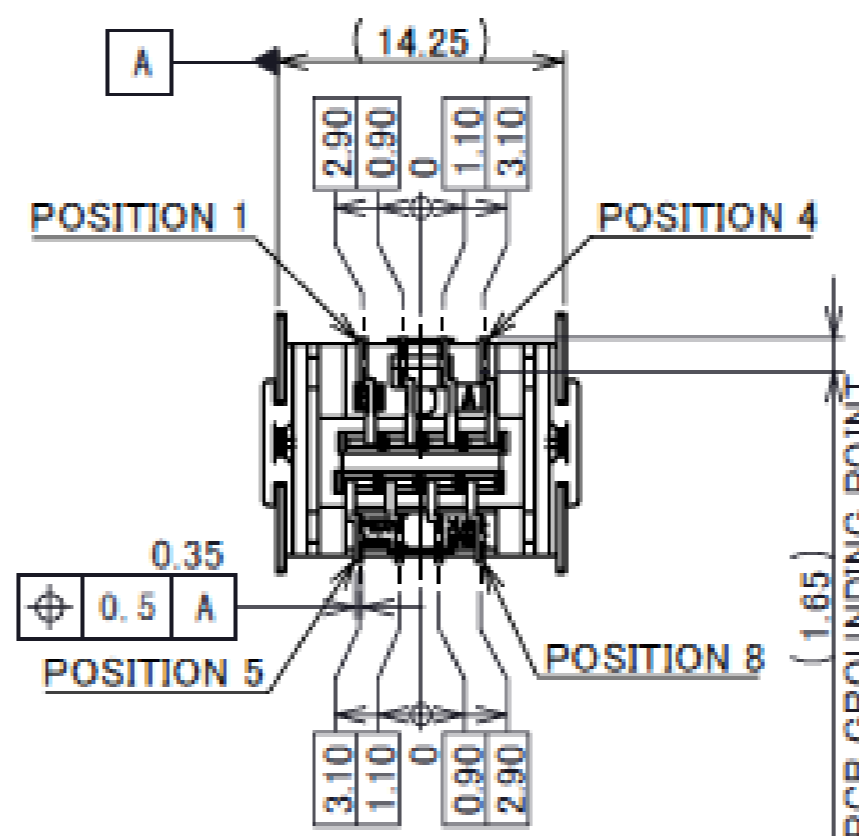
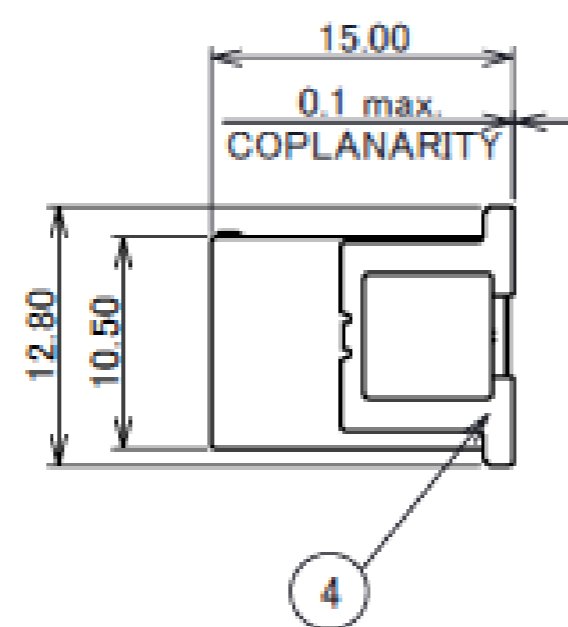
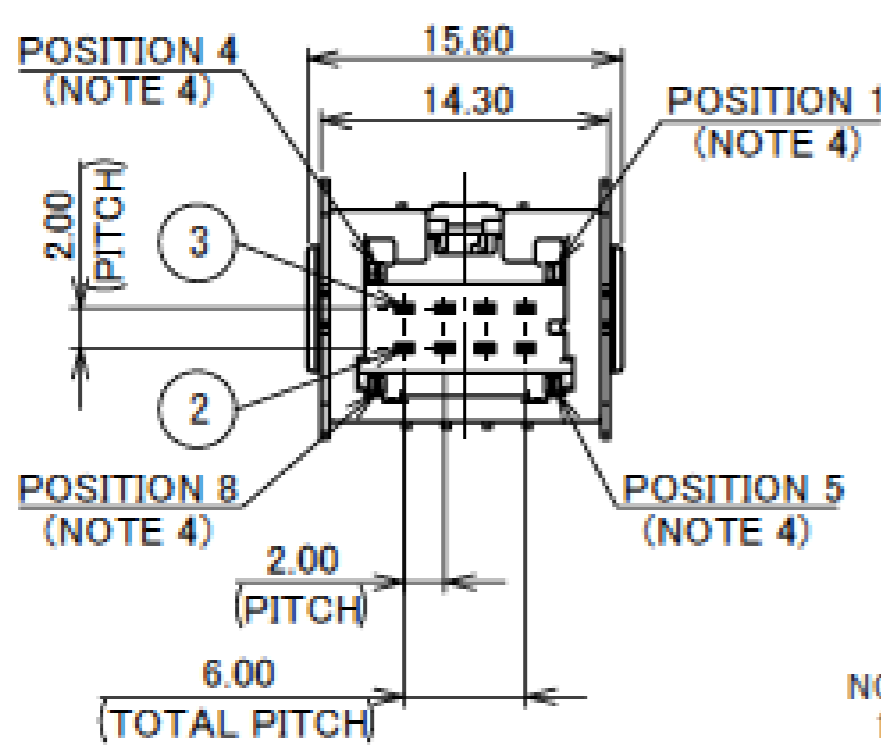
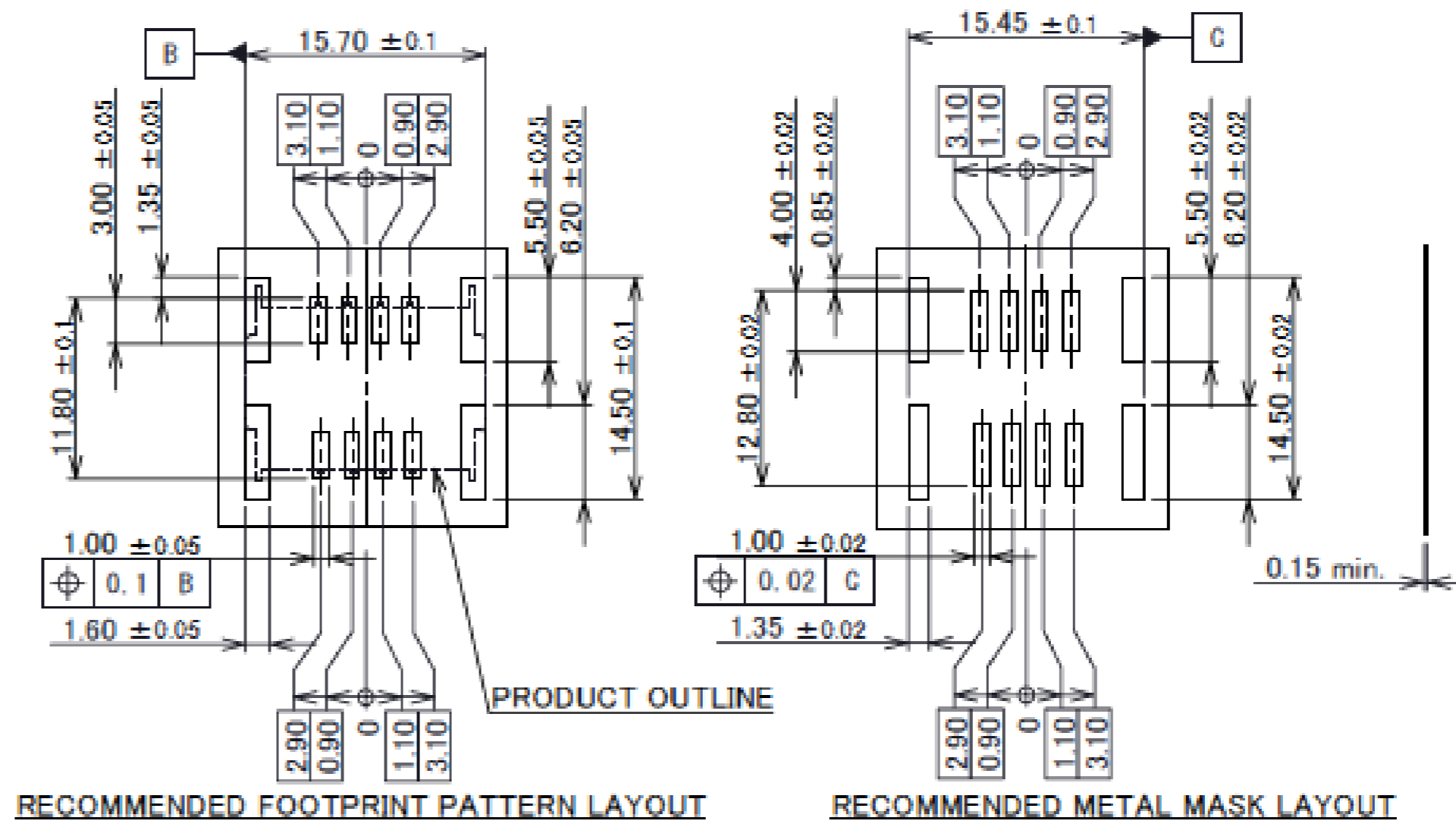
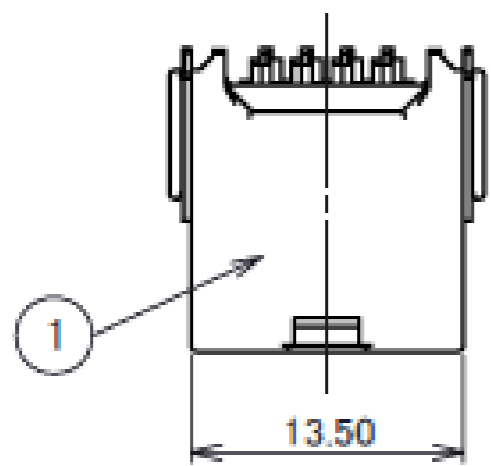
- Offroad vehicles (ATV/UTVs, QUADS, Tricycles)
- Trucks and construction machineries (Excavators, Loaders)
- Factory automation equipment

For applications that require compliance with LV214
Please visit [our website](#) for LV214 compliant part numbers.

Component Parts Details

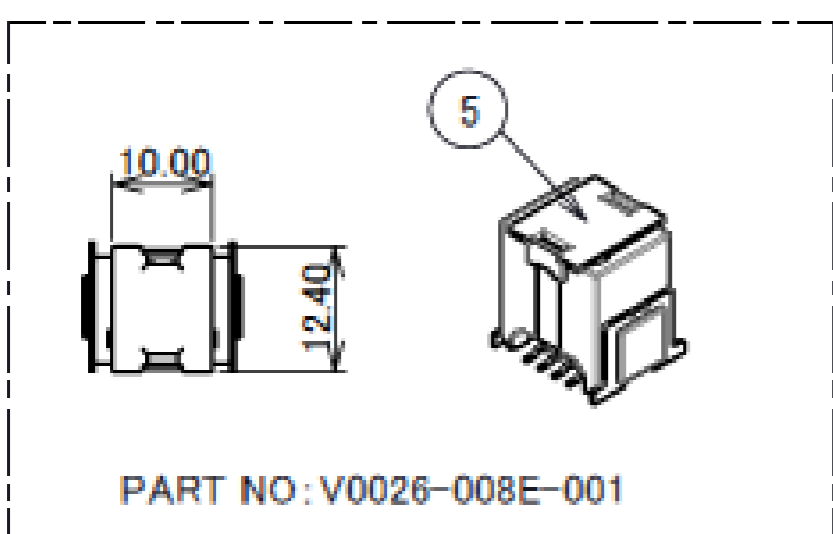
ISH® (Vertical Type) MALE (8P) ※ISHV:

MALE CONNECTOR	
PART NO.	VACUUM CAP
V0026-008E-001	WITH
◆V0026-008E-002	WITHOUT
◆MARK MEANS NOT AVAILABLE.	



- NOTES
1. APPLICABLE PART NO.:
 - FEMALE HOUSING...V0027-91008-211
 - FEMALE RETAINER...V0116-92008-01
 - FEMALE TERMINAL...VT009-02
 2. COMPLY WITH ELV/RoHS
 3. USE METAL MASK WHICH HAS A THICKNESS OF 0.15mm MIN. WHEN THE MALE CONNECTOR IS MOUNTED ON THE PCB.
 4. POSITION NUMBERS ARE INDICATED.

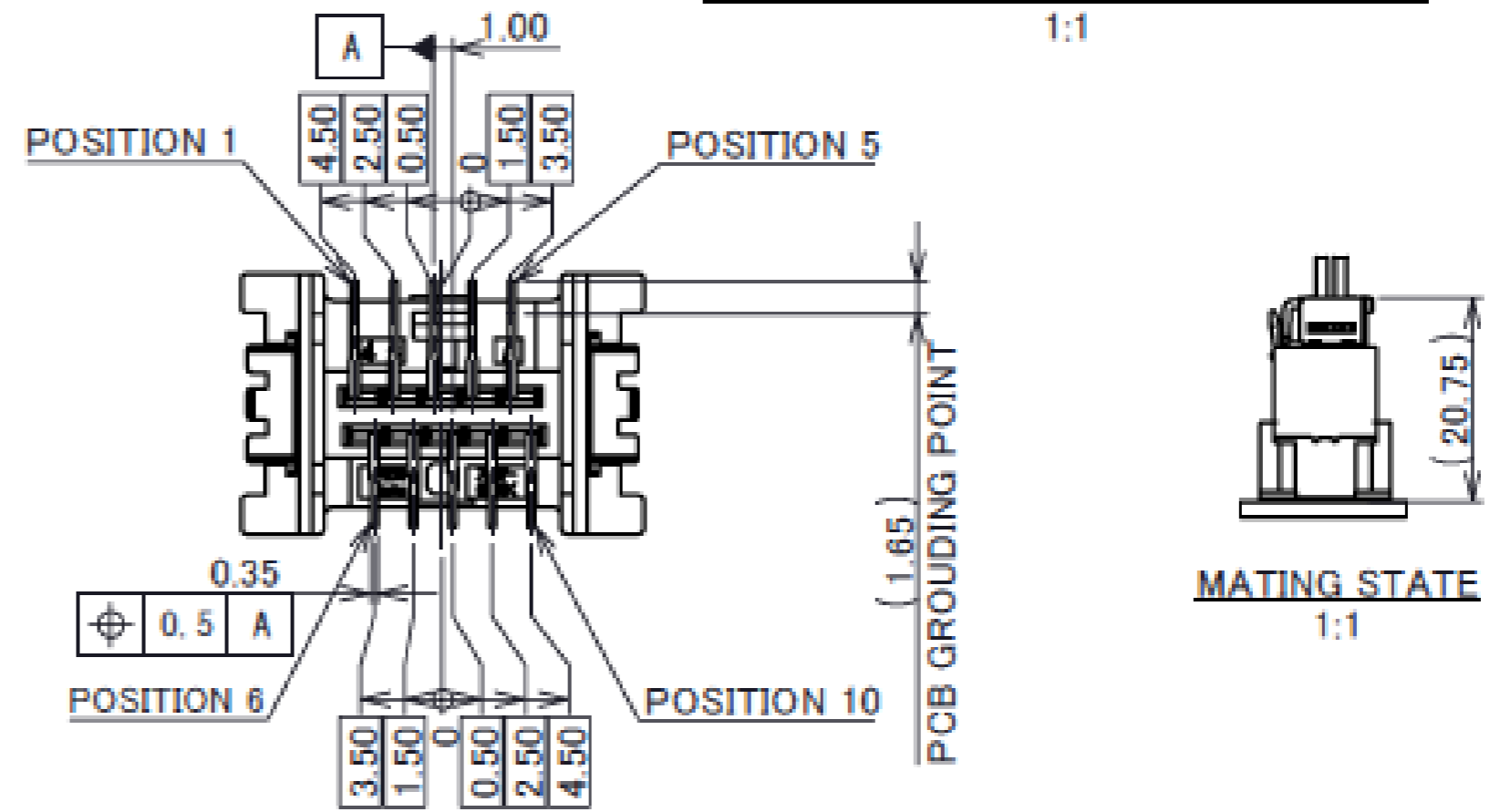
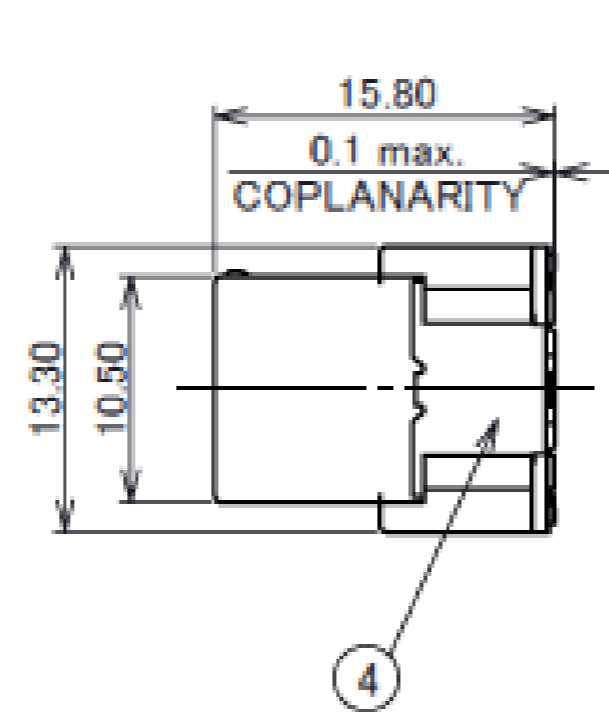
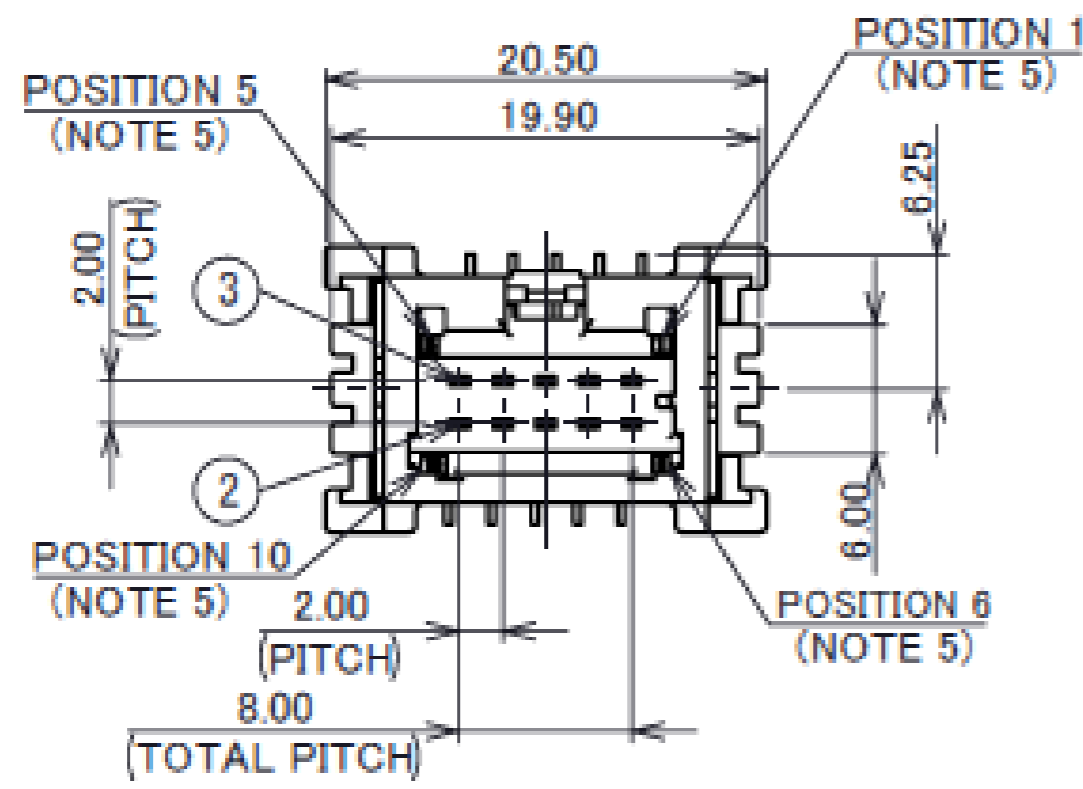
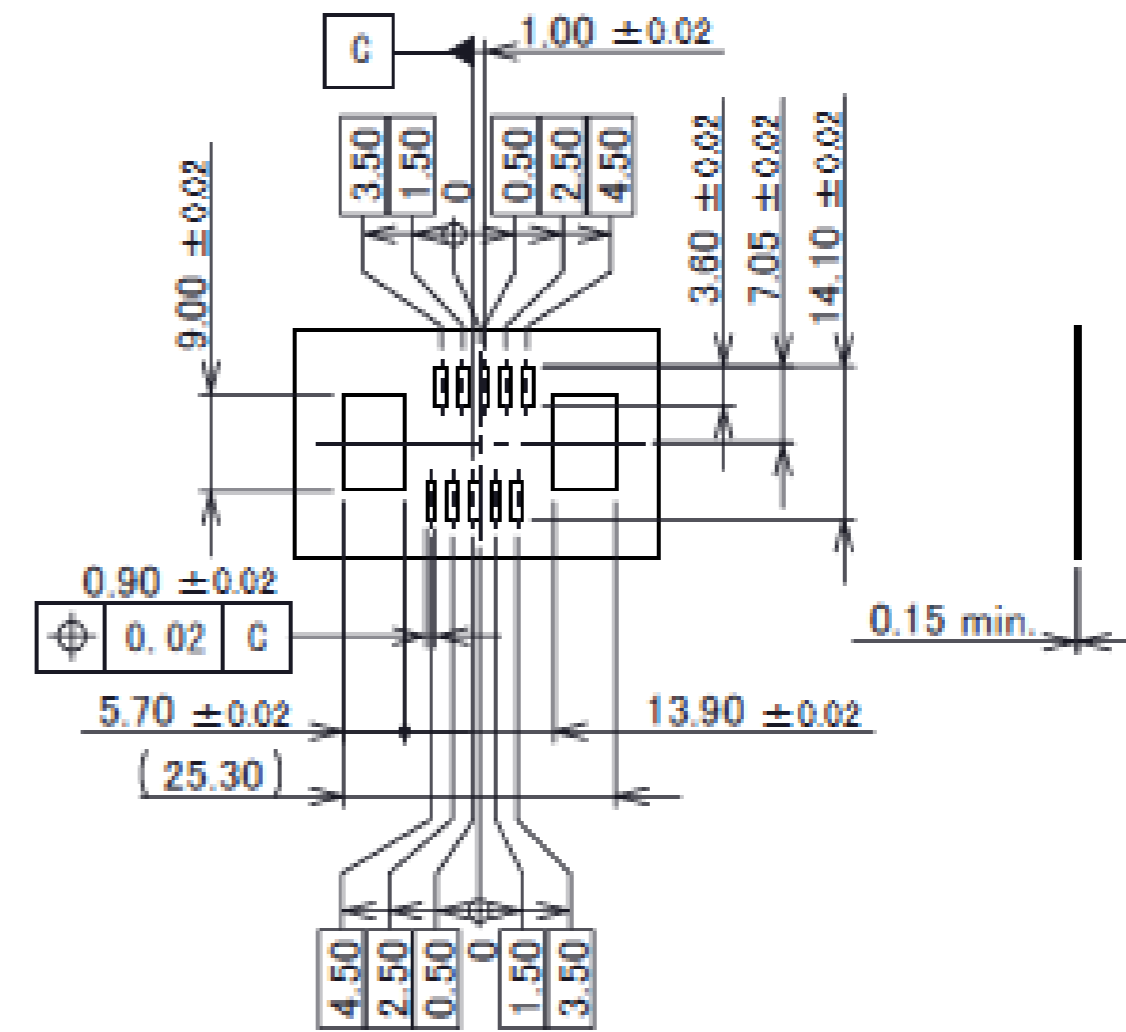
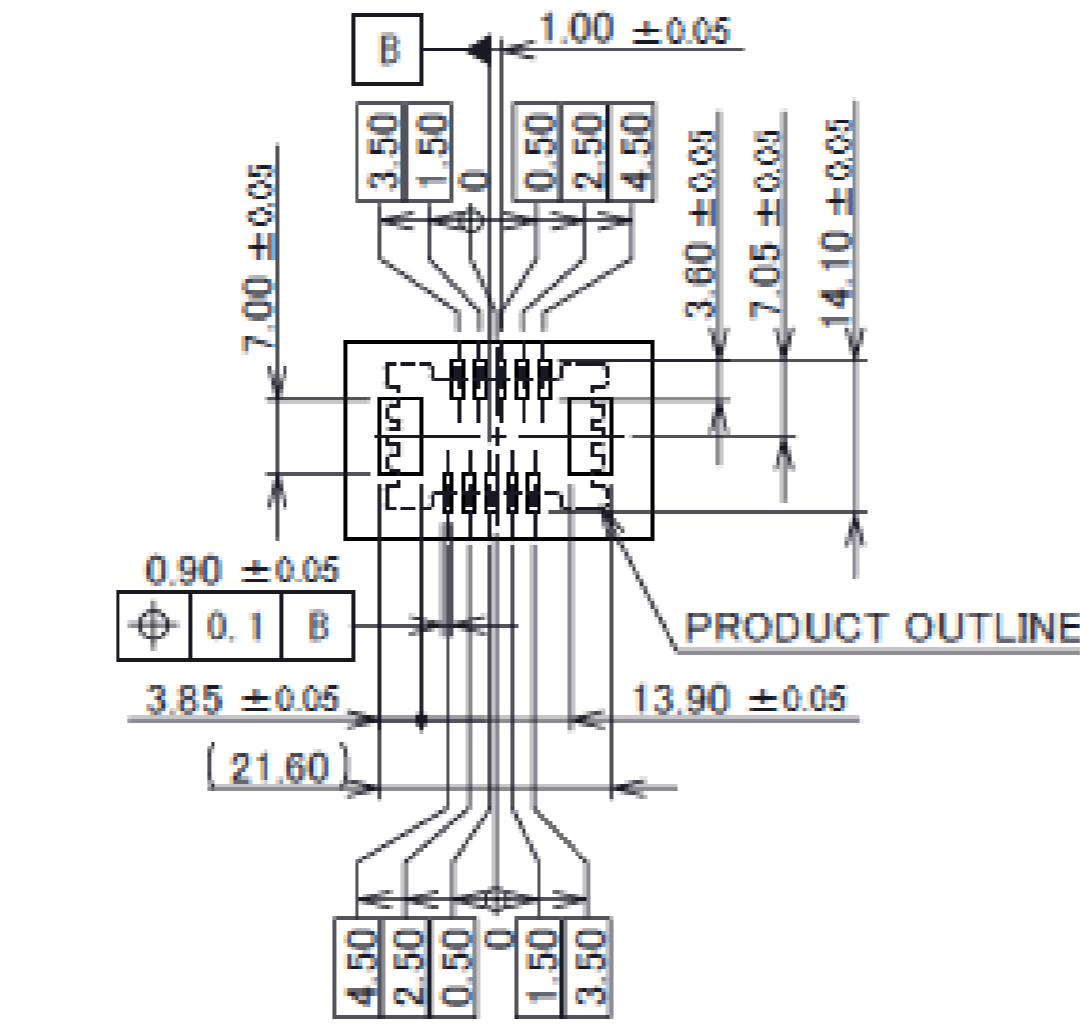
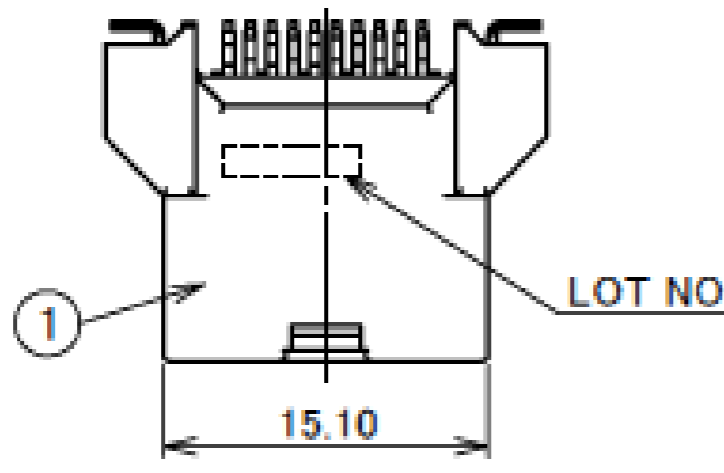
5	VACUUM CAP	GLASS-FILLED LCP	NATURAL
4	HOLD DOWN	BRASS	S _n REFLOW
3	MALE TERMINAL-2	BRASS	S _n REFLOW
2	MALE TERMINAL-1	BRASS	S _n REFLOW
1	MALE HOUSING	GLASS-FILLED LCP	BLACK/UL94V-0
NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS



ISH® (Vertical Type) MALE (10P):

PART NO.	VACUUM CAP
V0019-010E-001	WITH
◆V0019-010E-002	WITHOUT

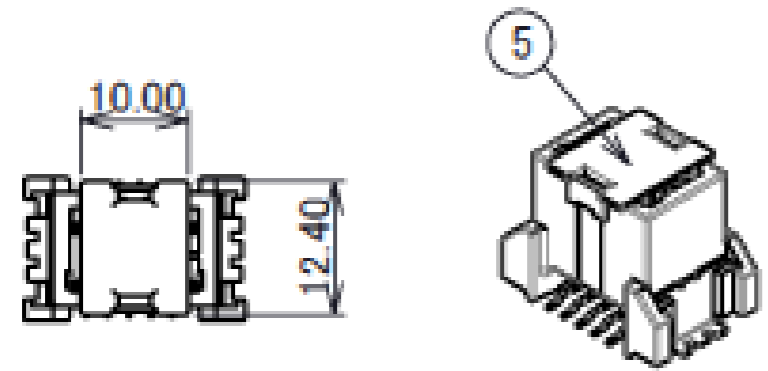
◆MARK MEANS NOT AVAILABLE



NOTES

- 1.APPLICABLE PART NO.:
 - FEMALE HOUSING...V0020-91010-211
 - FEMALE RETAINER...V0020-92010-211
 - FEMALE TERMINAL...VT009-02
- 2.COMPLY WITH ELV/RoHS
- 3.HANDLE OF PRODUCT IN COMPLIANCE WITH HANDLING MANUAL(HDM-0020)
- 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.

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

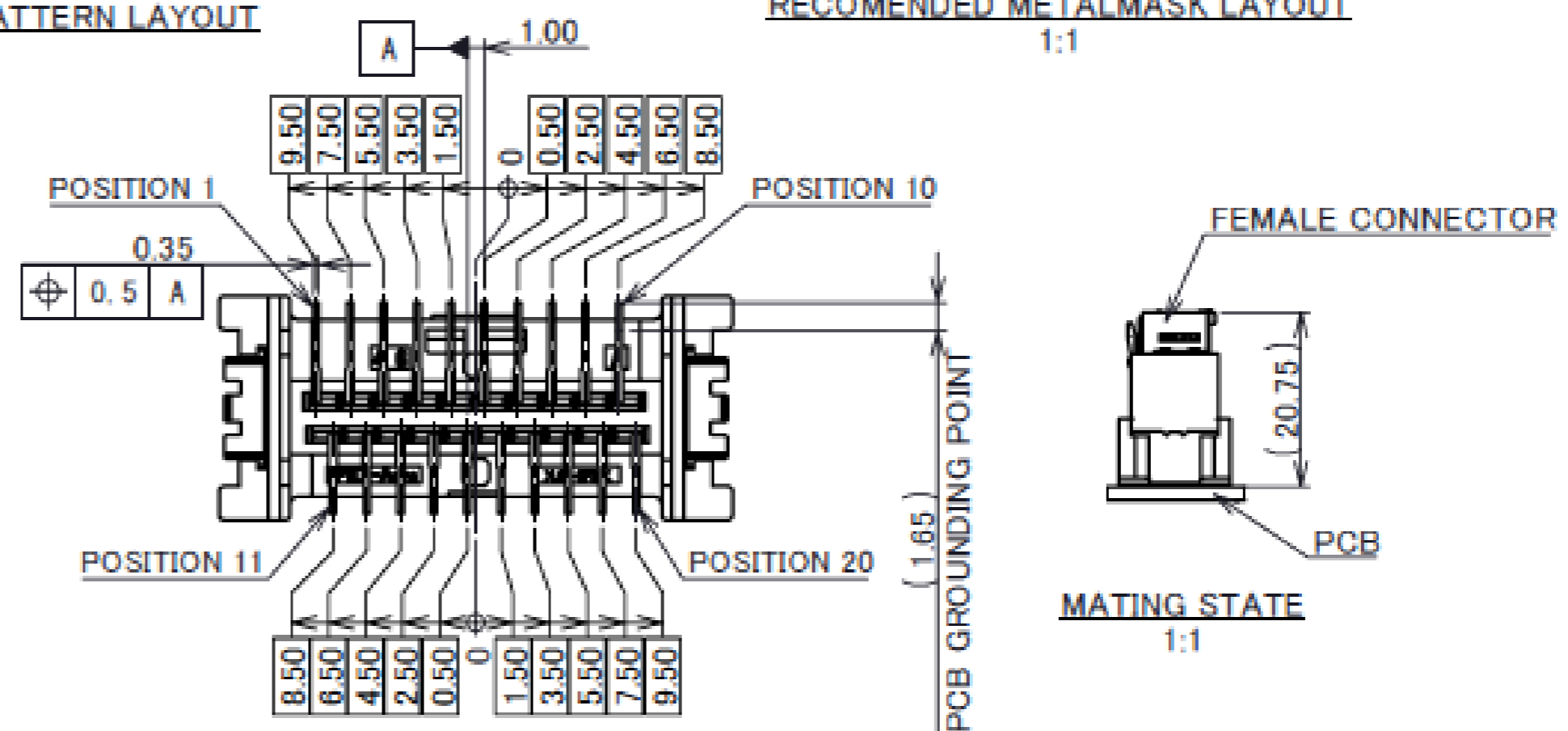
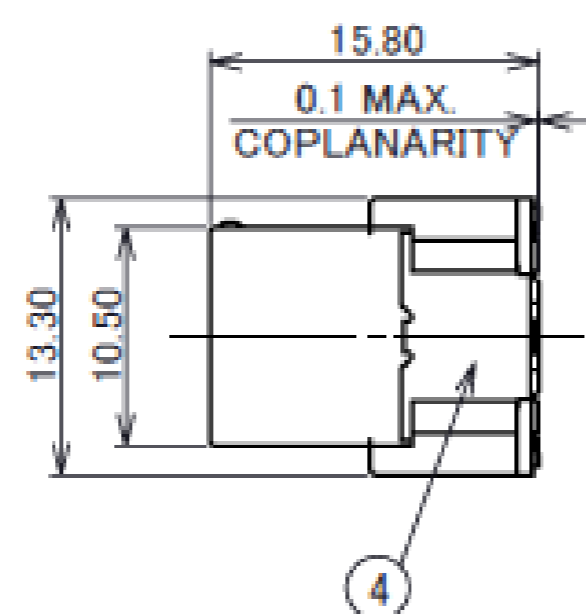
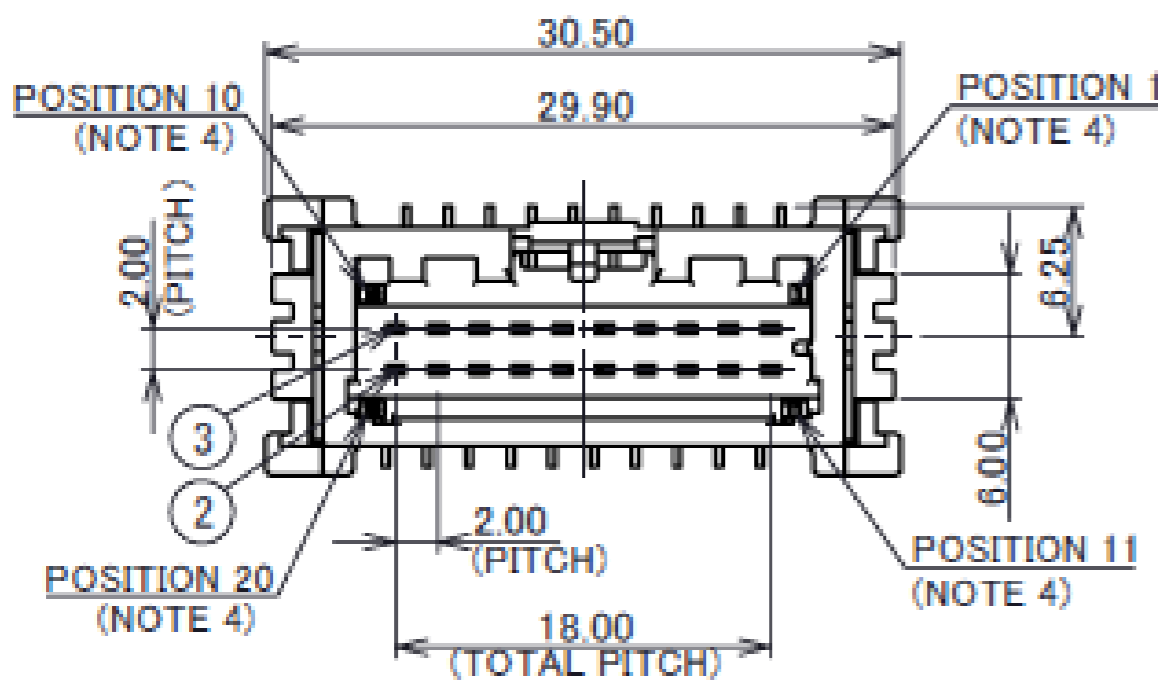
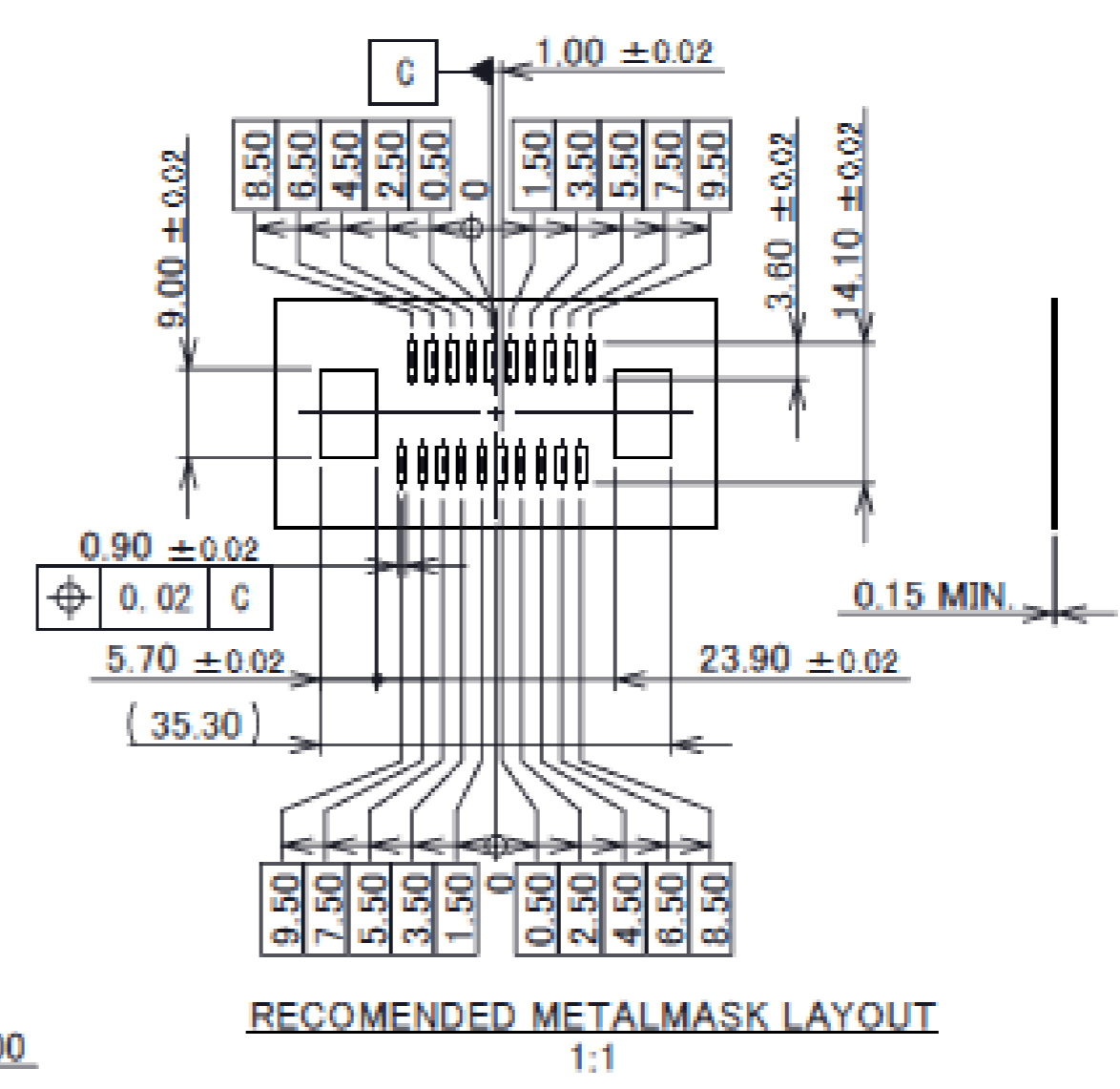
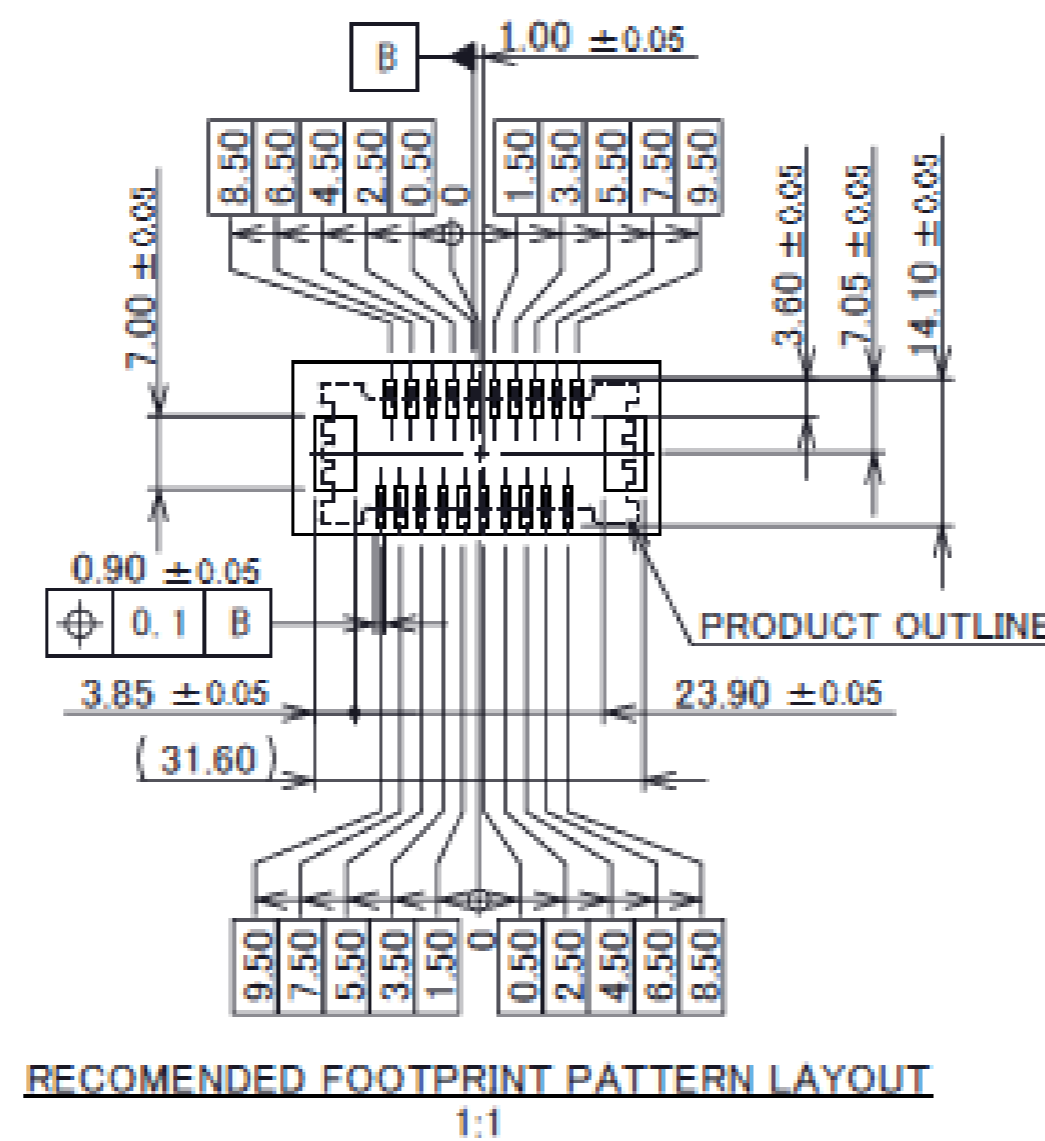
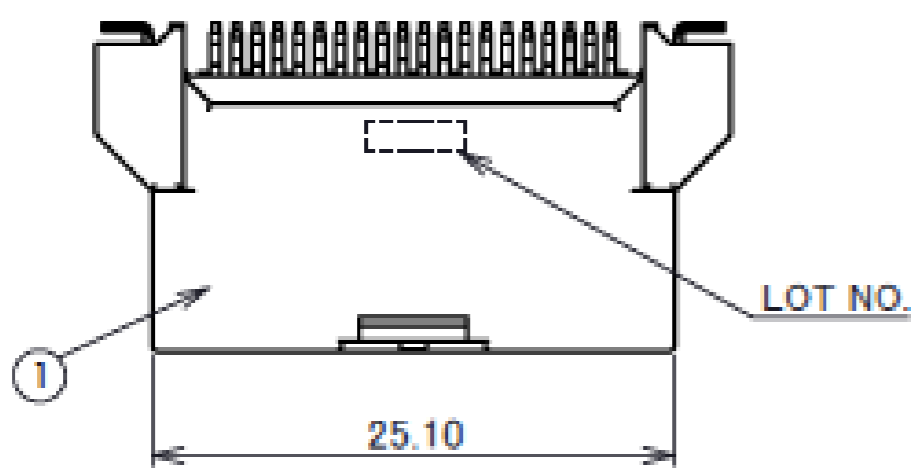


PART NO: V0019-010E-001

Rev.0

ISH® (Vertical Type) MALE (20P):

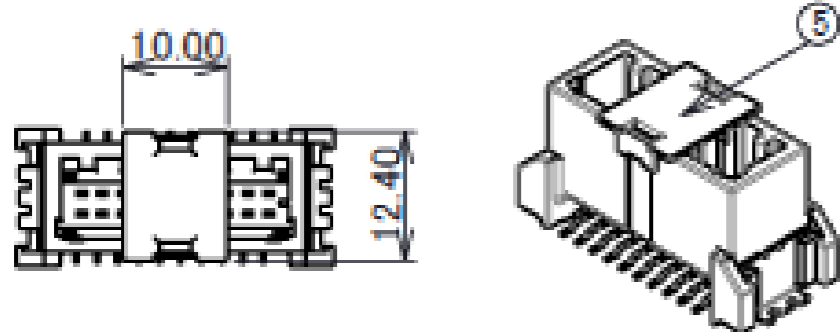
PART NO.
V0019-020E-001
V0019-020E-002



NOTES

- 1.APPLICABLE PART NO.:
 - FEMALE HOUSING...V0020-91020-211
 - FEMALE RETAINER...V0020-92020-211
 - FEMALE TERMINAL...VT009-02
- 2.COMPLY WITH ELV/RoHS
- 3.USE METAL MASK WHICH HAS A THICKNESS OF 0.15mm MIN. WHEN THE MALE CONNECTOR IS MOUNTED ON THE PCB.
- 4.POSITION NUMBERS ARE INDICATED.

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



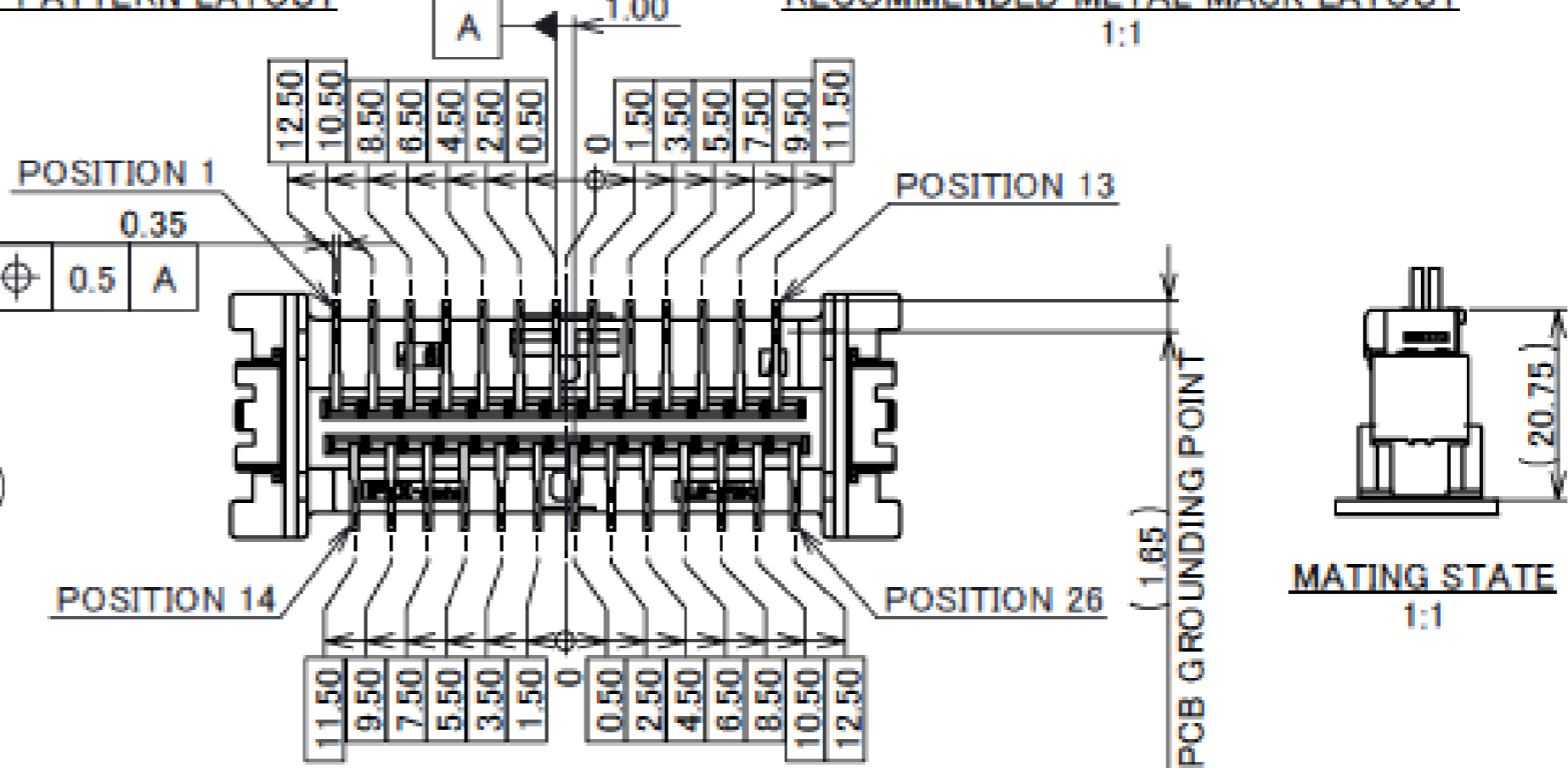
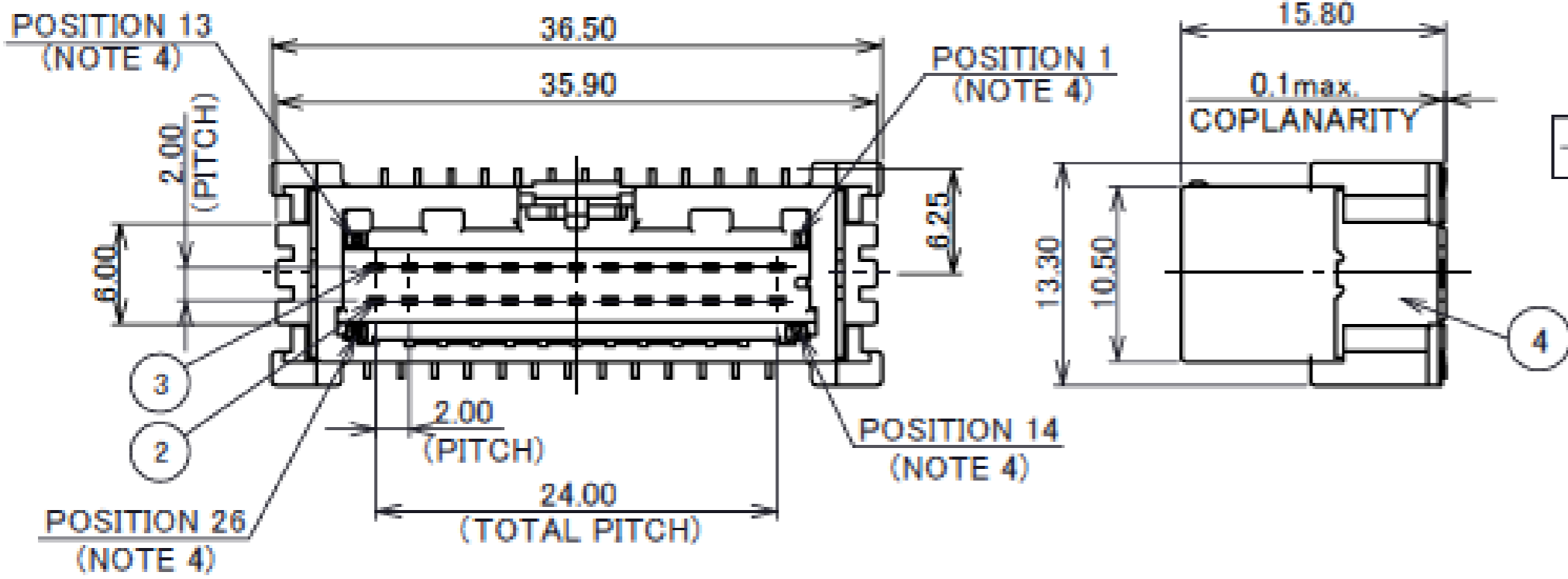
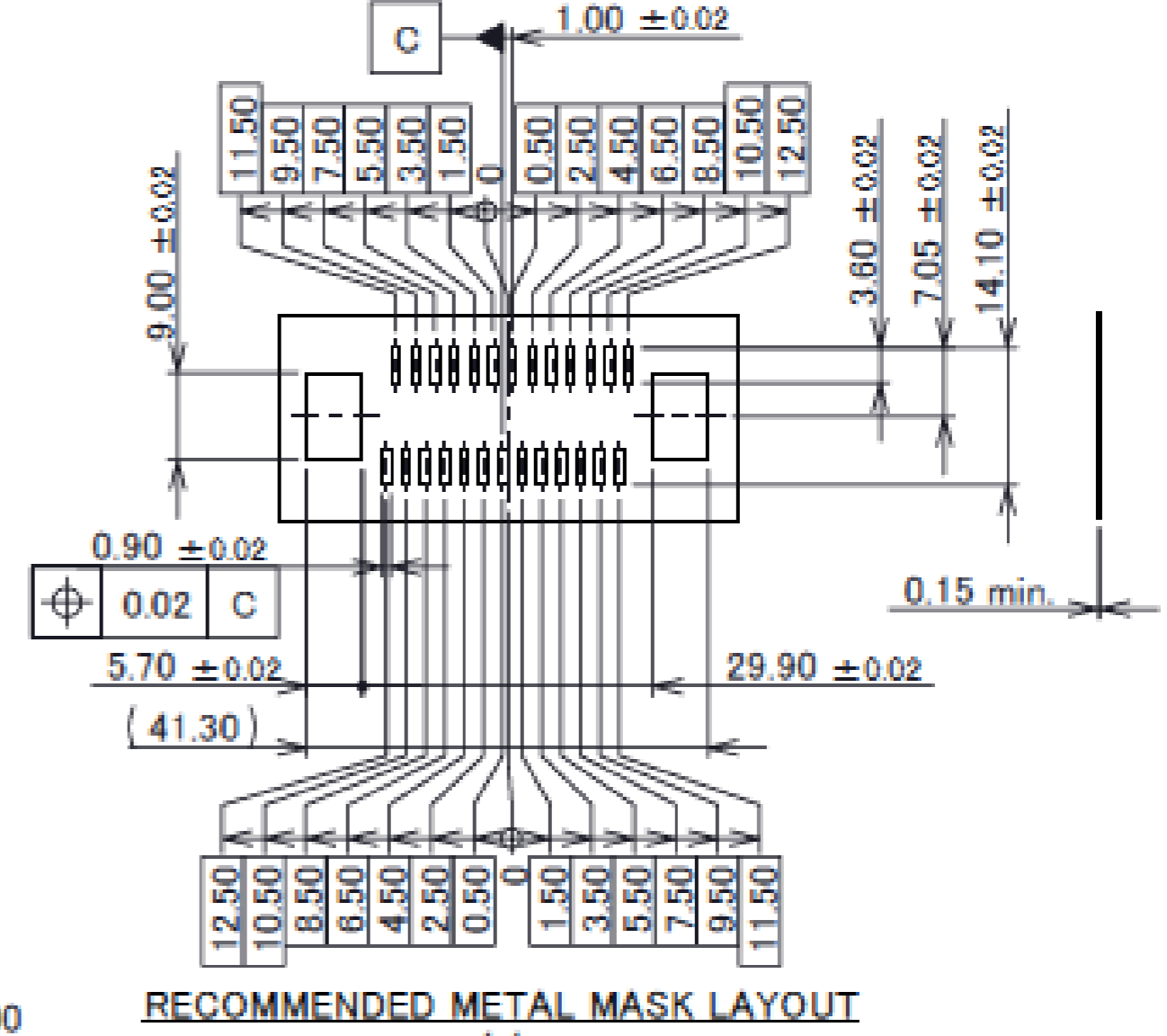
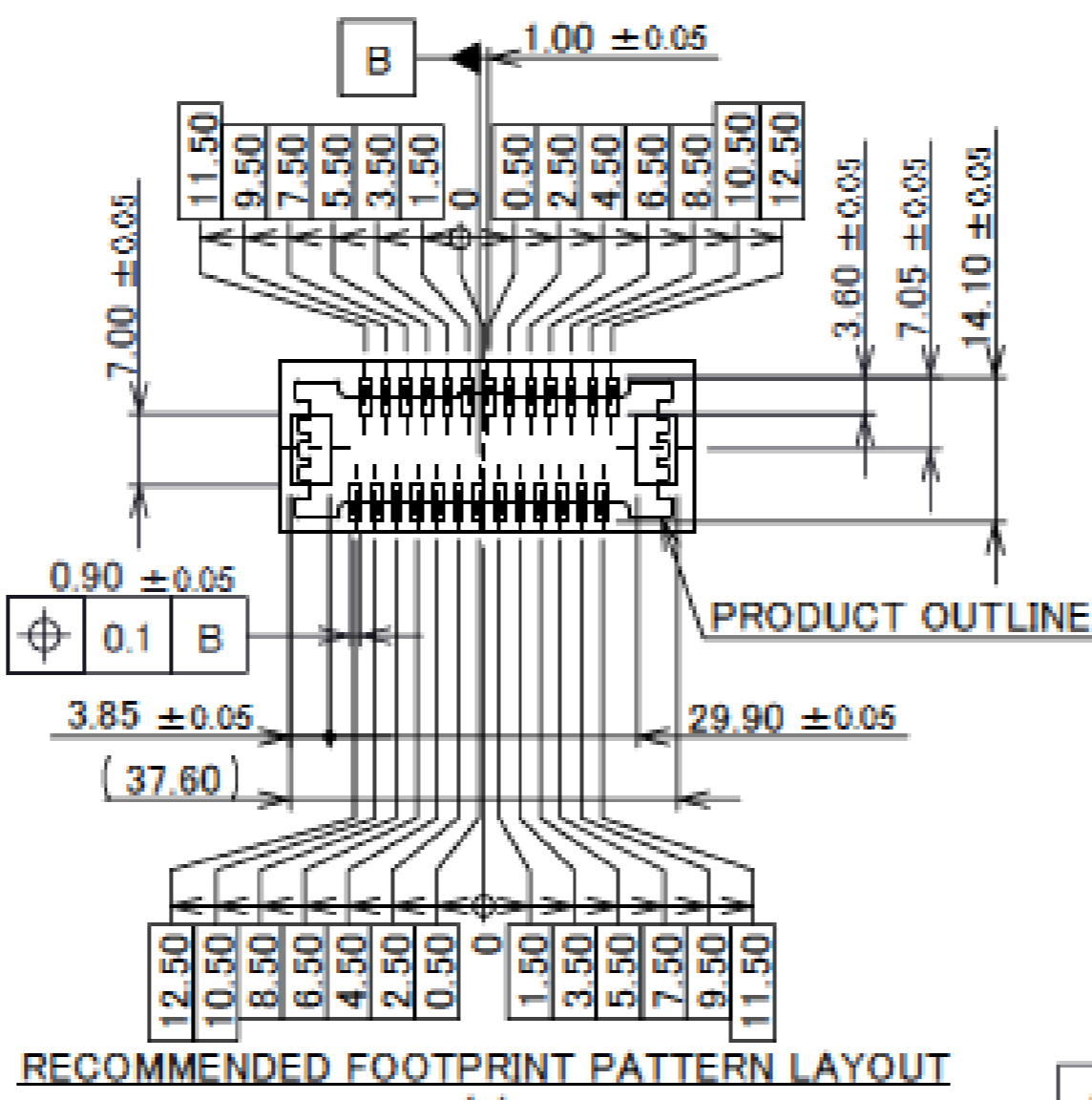
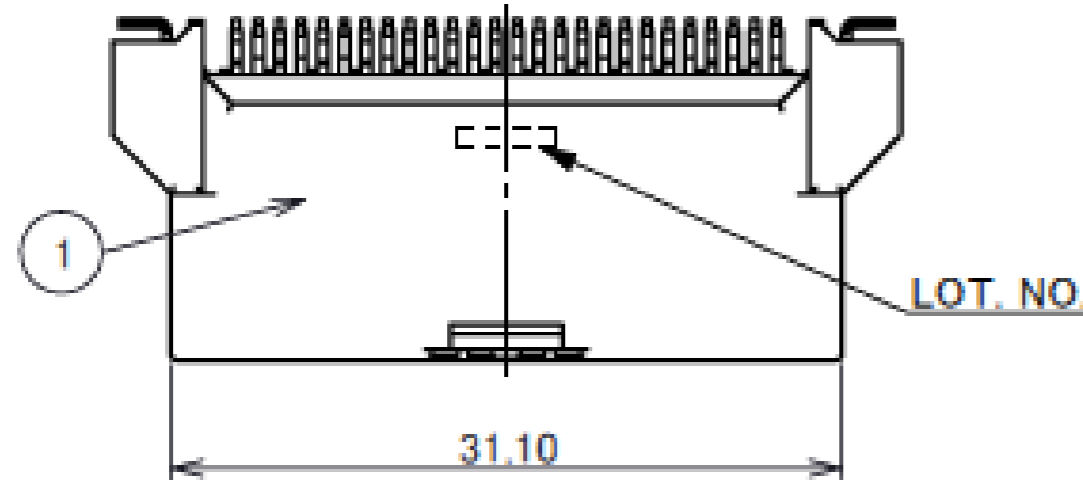
PART NO:V0019-020E-001

Rev.0

ISH® (Vertical Type) MALE (26P):

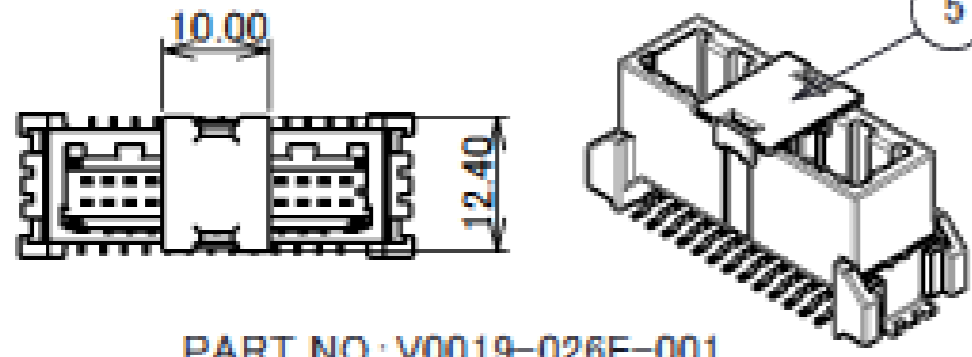
PART NO.	VACUUM CAP
◆V0019-026E-001	WITH
V0019-026E-002	WITHOUT

◆MARK MEANS NOT AVAILABLE.



- NOTES
1. APPLICABLE PART NO.:
 - FEMALE HOUSING --- V0020-91026-211
 - FEMALE RETAINER --- V0020-92026-211
 - FEMALE TERMINAL --- VT009-02
 2. COMPLY WITH ELV/RoHS
 3. USE METAL MASK WHICH HAS A THICKNESS OF 0.15mm MIN. WHEN THE MALE CONNECTOR IS MOUNTED ON THE PCB.
 4. POSITION NUMBERS ARE INDICATED.

NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS
5	VACUUM CAP	GLASS-FILLED LCP	NATURAL
4	HOLD DOWN	BRASS	Sn REFLOW
3	MALE TERMINAL-2	BRASS	Sn REFLOW
2	MALE TERMINAL -1	BRASS	Sn REFLOW
1	MALE HOUSING	GLASS-FILLED LCP	BLACK

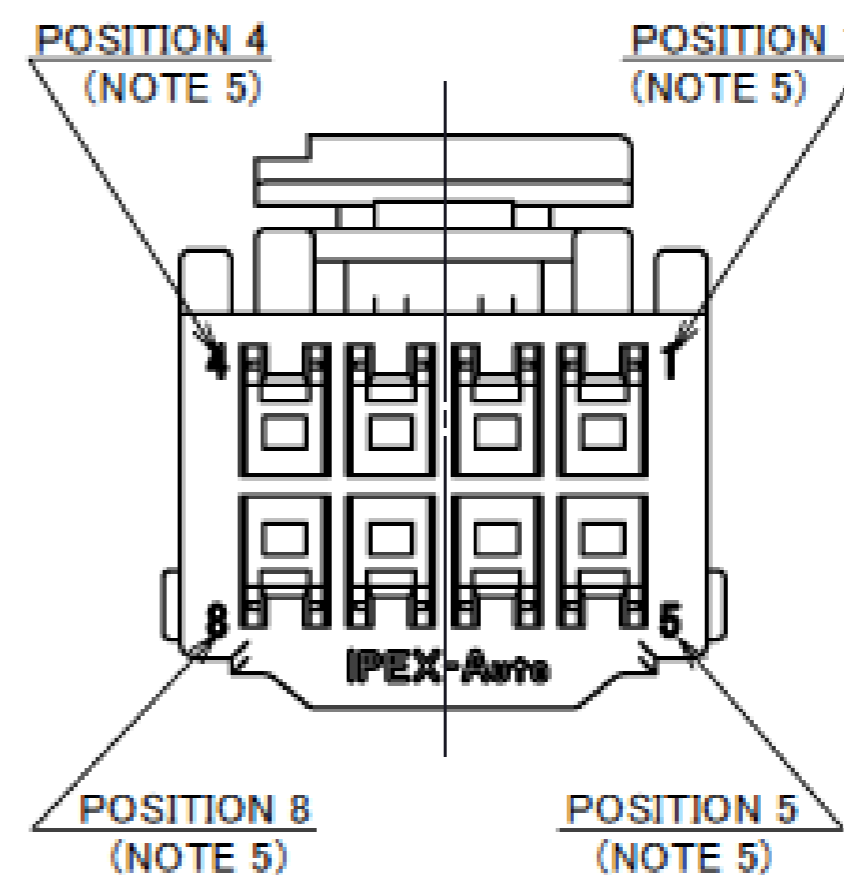
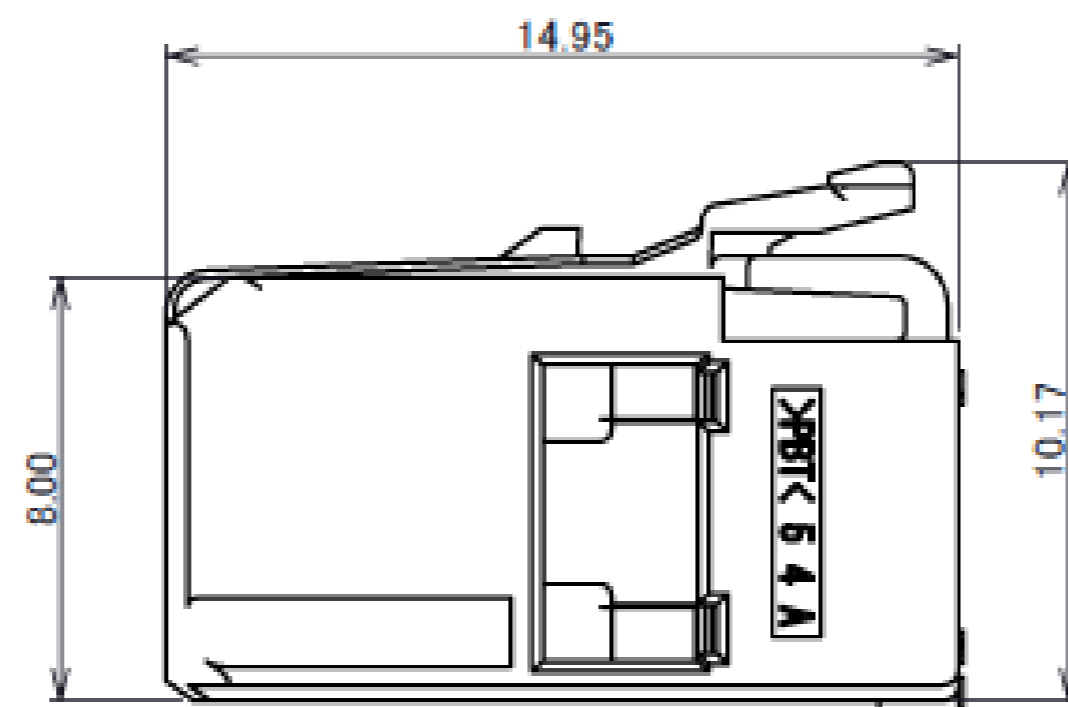
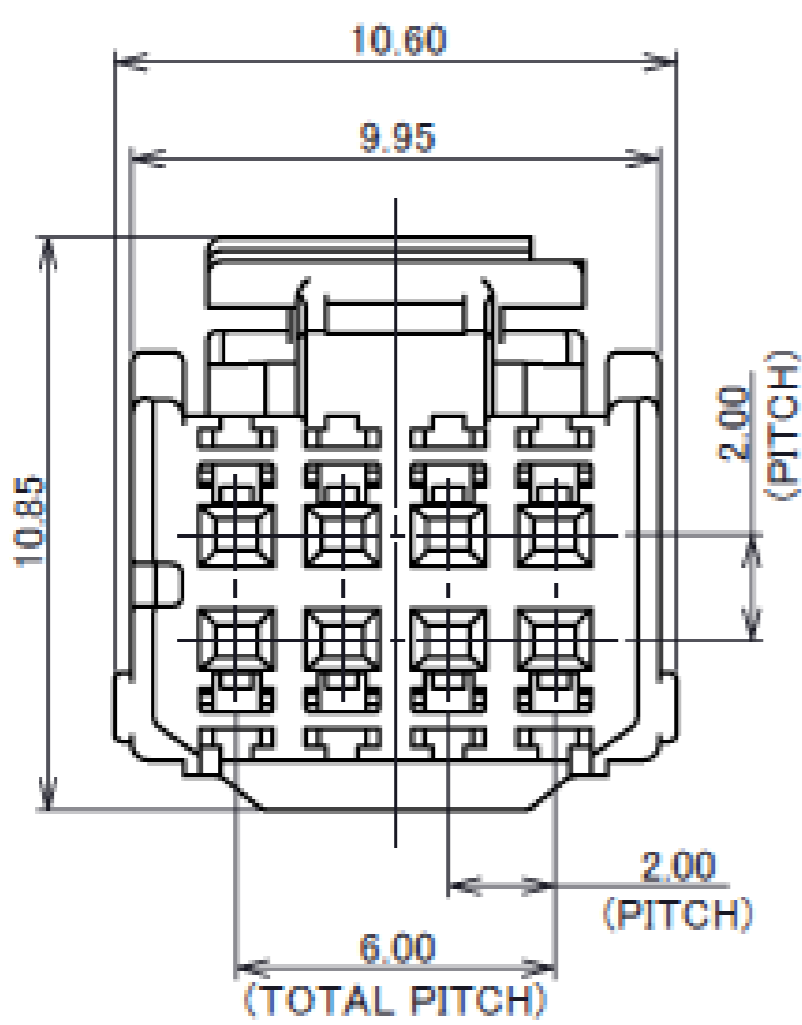
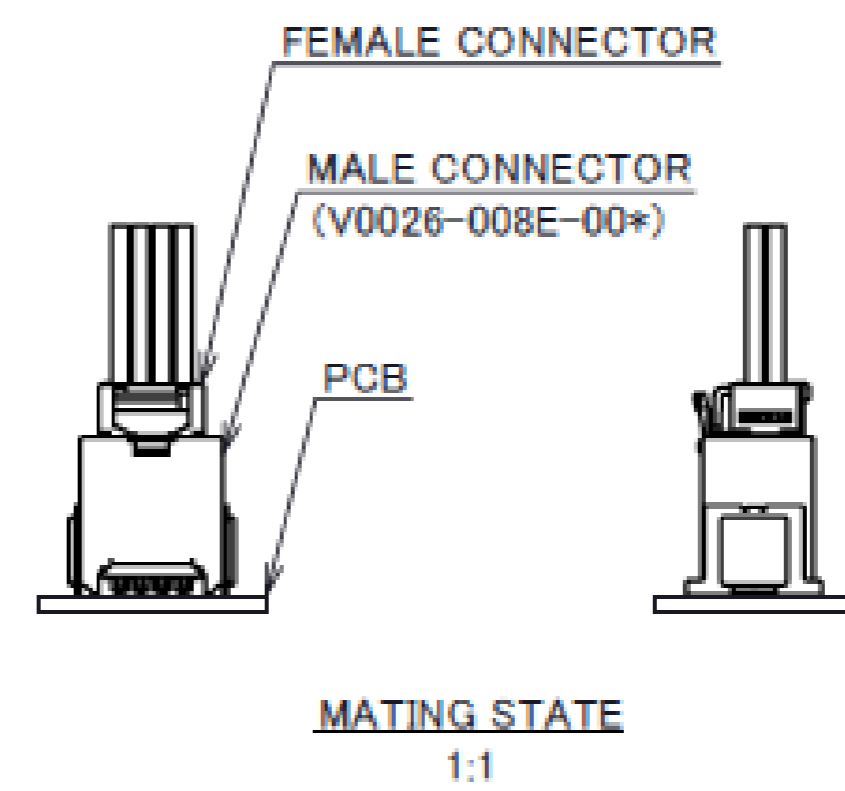
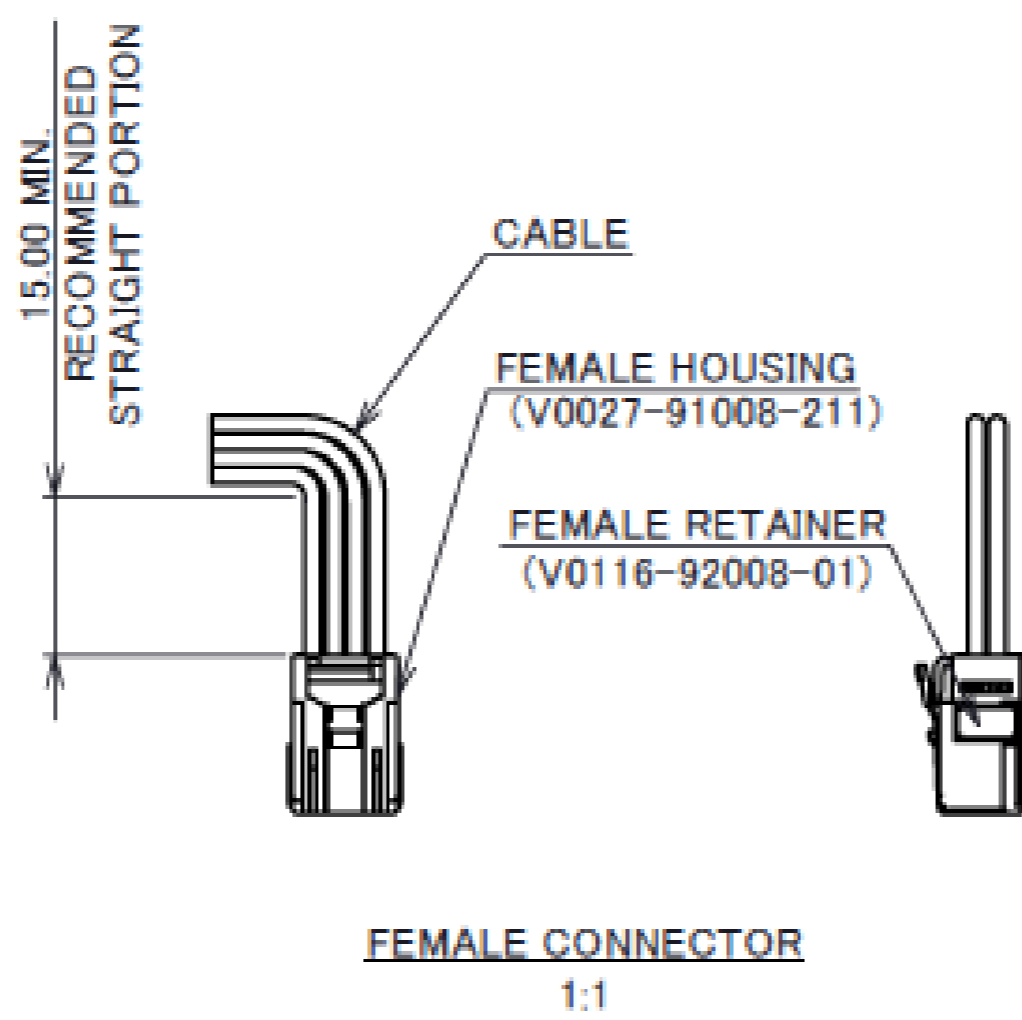
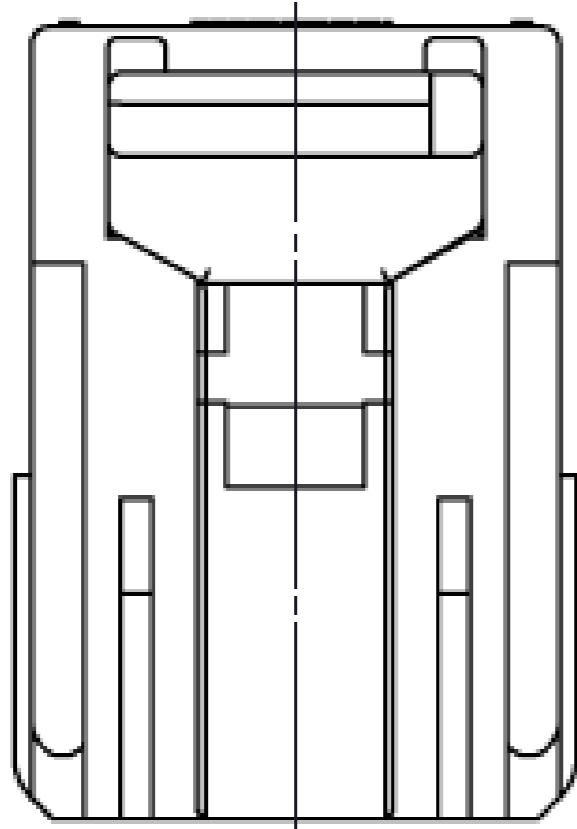


PART NO: V0019-026E-001

Rev.0

ISH® (Vertical Type) FEMALE (8P) ※ISHV :

PART NO.	LOCK TYPE	KEY CODING	COLOR	FOR REAR COVER
V0027-91008-211	NORMAL ROCK	-	BLACK	N/A



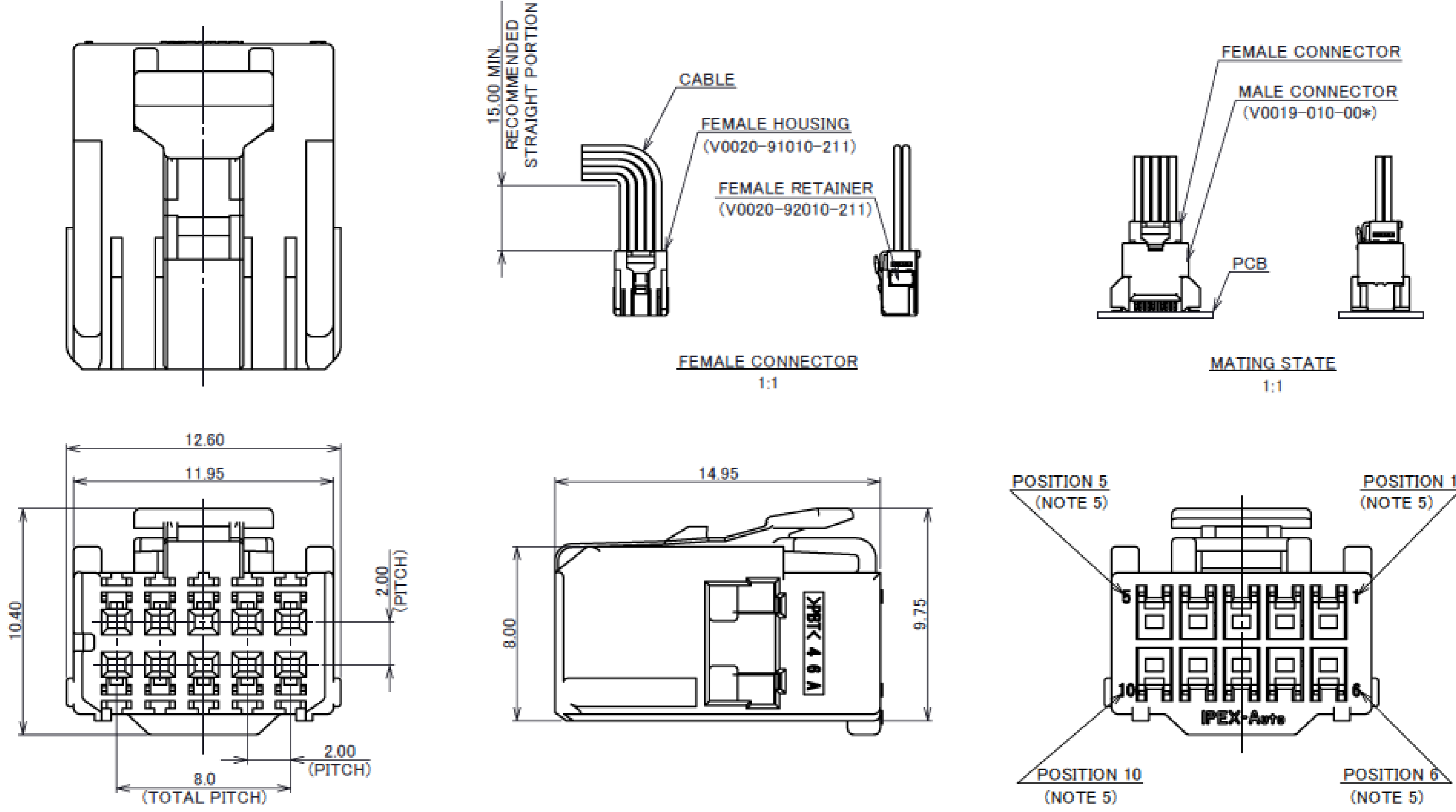
NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS
1	FEMALE HOUSING	PBT	BLACK

- NOTES
1. APPLICABLE PART NO.:
 - FEMALE TERMINAL --- VT009-02
 - FEMALE RETAINER --- V0116-92008-01
 2. MATERIAL: PBT
 3. COMPLY WITH ELV/RoHS
 4. HANDLE OF PRODUCT IN COMPLIANCE WITH HANDLING MANUAL [HDM-0020]
 5. POSITION NUMBERS ARE INDICATED.

Rev.0

ISH® (Vertical Type) FEMALE (10P):

PART NO.	LOCK TYPE	KEY CODING	COLOR	FOR REAR COVER
V0020-91010-211	NORMAL LOCK	-	BLACK	N/A



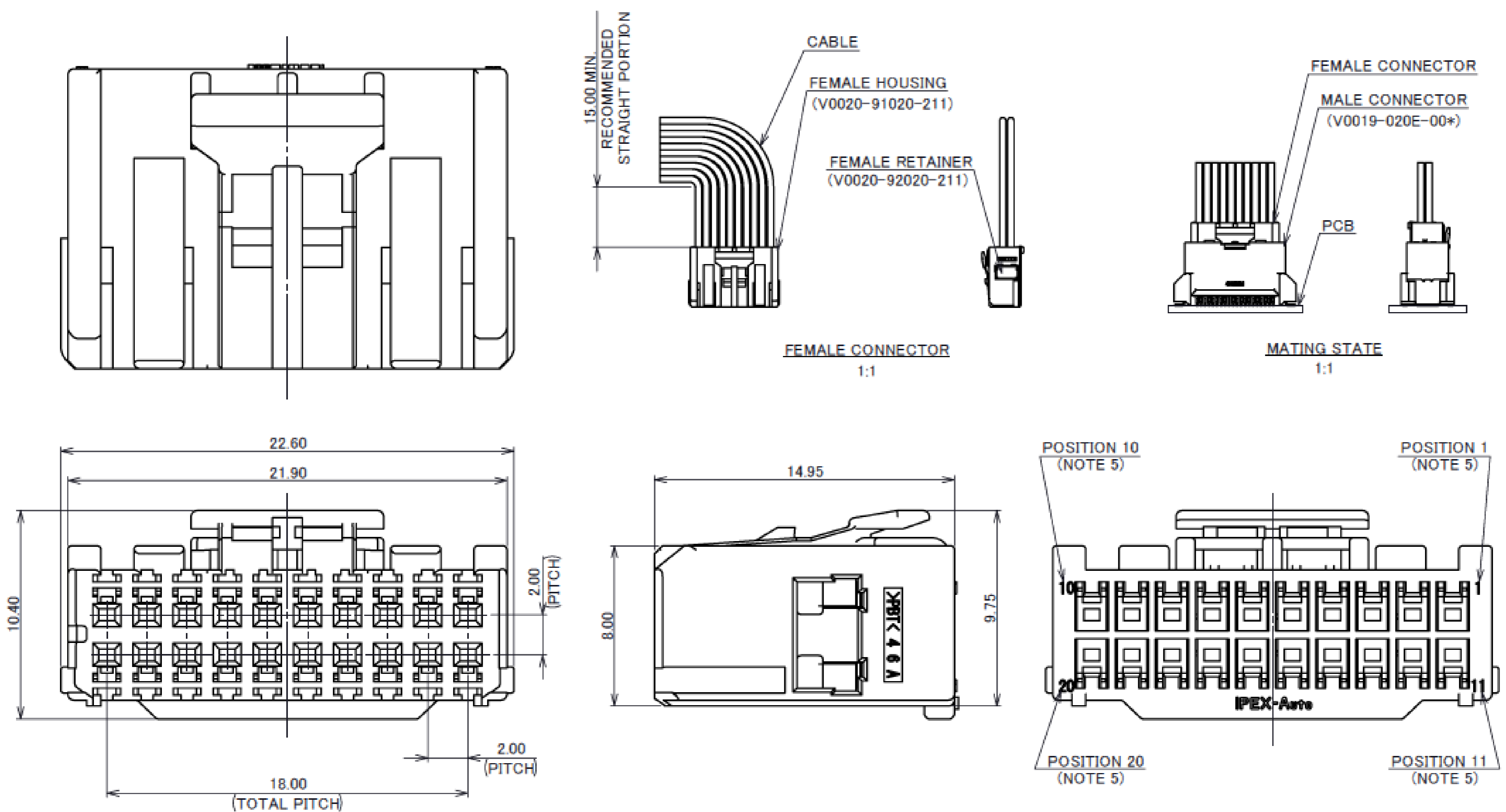
NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS
①	FEMALE HOUSING	PBT	BLACK

NOTES
 1. APPLICABLE PART NO.:
 - FEMALE TERMINAL --- VT009-02
 - FEMALE RETAINER --- V0020-92010-211
 2. MATERIAL: PBT
 3. COMPLY WITH ELV/RoHS.
 4. HANDLE OF PRODUCT IN COMPLIANCE WITH HANDLING MANUAL [HDM-0020]
 5. POSITION NUMBERS ARE INDICATED.

Rev.0

ISH® (Vertical Type) FEMALE (20P):

PART NO.
V0020-91020-211



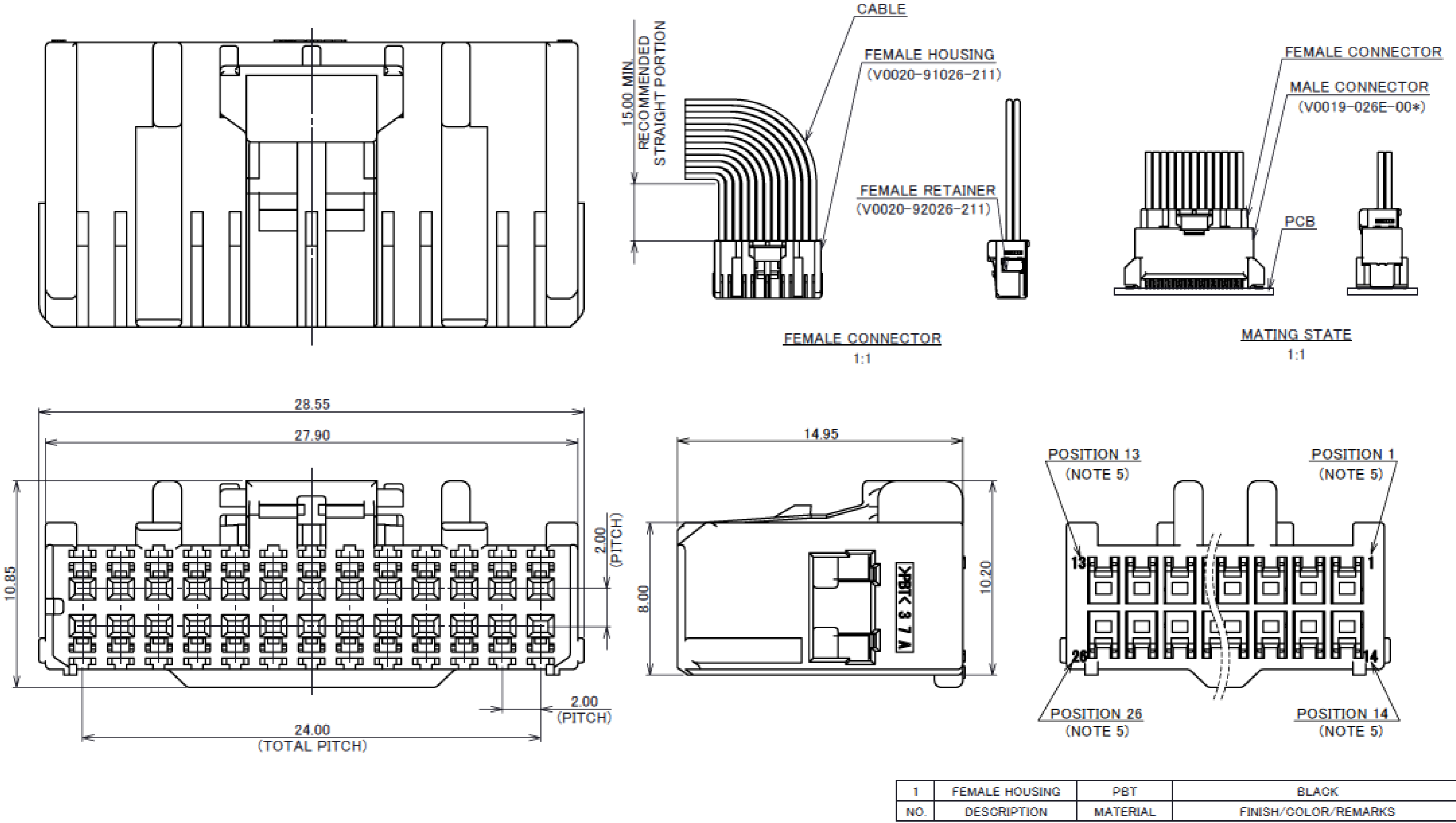
NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS
1	FEMALE HOUSING	PBT	BLACK

NOTES
 1. APPLICABLE PART NO.:
 - FEMALE TERMINAL --- VT009-02
 - FEMALE RETAINER --- V0020-92020-211
 2. MATERIAL: PBT
 3. COMPLY WITH ELV/RoHS.
 4. HANDLE OF PRODUCT IN COMPLIANCE WITH HANDLING MANUAL [HDM-0020]
 5. POSITION NUMBERS ARE INDICATED.

Rev.0

ISH® (Vertical Type) FEMALE (26P):

PART NO.
V0020-91026-211



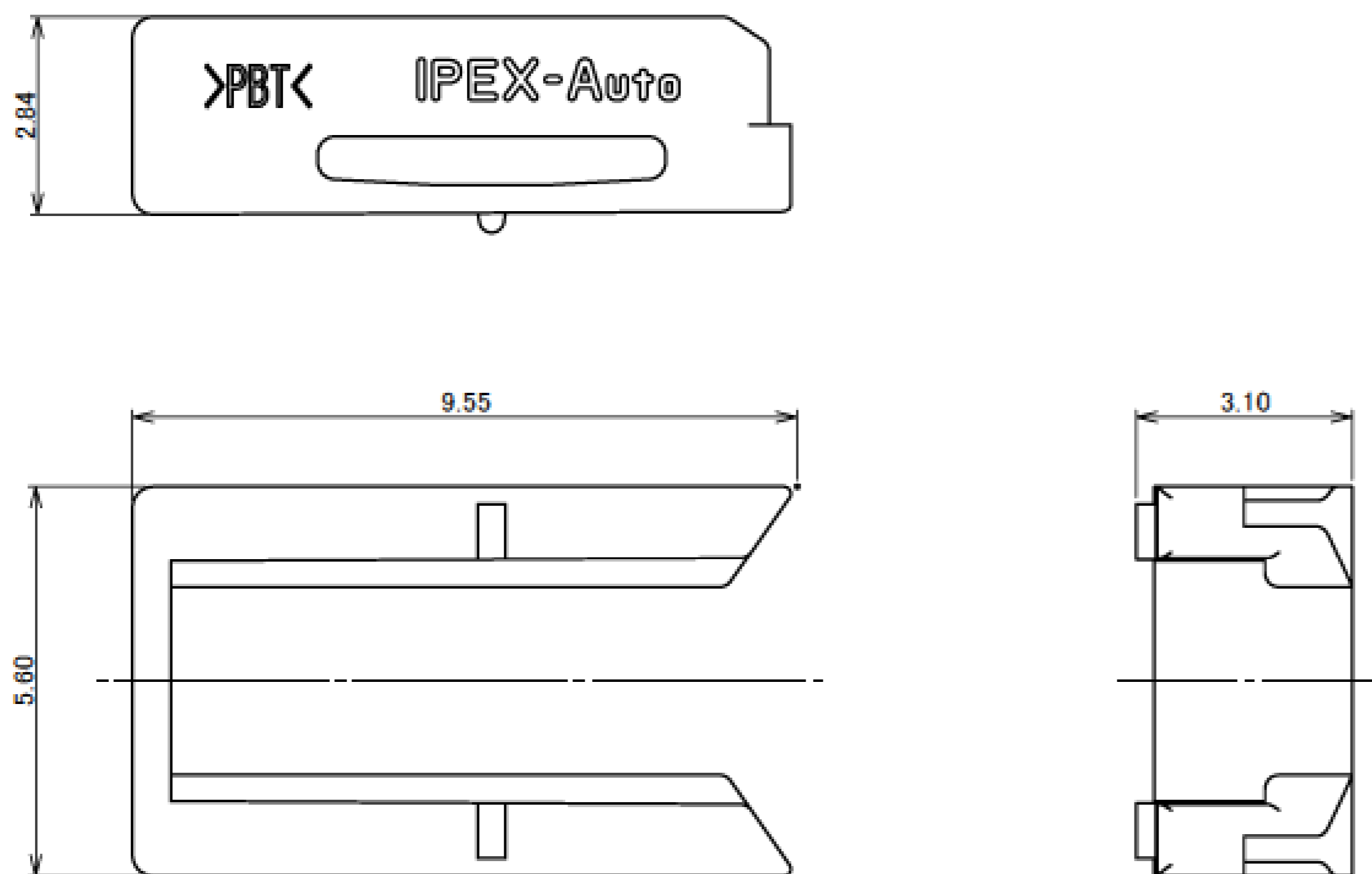
1	FEMALE HOUSING	PBT	BLACK
NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS

- NOTES
1. APPLICABLE PART NO.:
 - FEMALE TERMINAL --- VT009-02
 - FEMALE RETAINER --- V0020-92026-211
 2. MATERIAL: PBT
 3. COMPLY WITH ELV/RoHS.
 4. HANDLE OF PRODUCT IN COMPLIANCE WITH HANDLING MANUAL [HDM-0020]
 5. POSITION NUMBERS ARE INDICATED.

Rev.0

ISH® (Vertical Type) FEMALE RETAINER (8P) ※ISHV :

PART NO.
V0116-92008-01



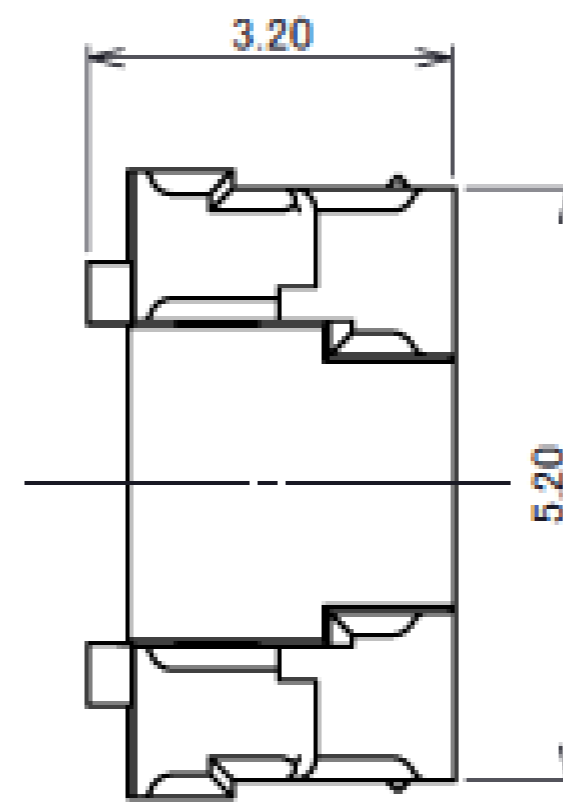
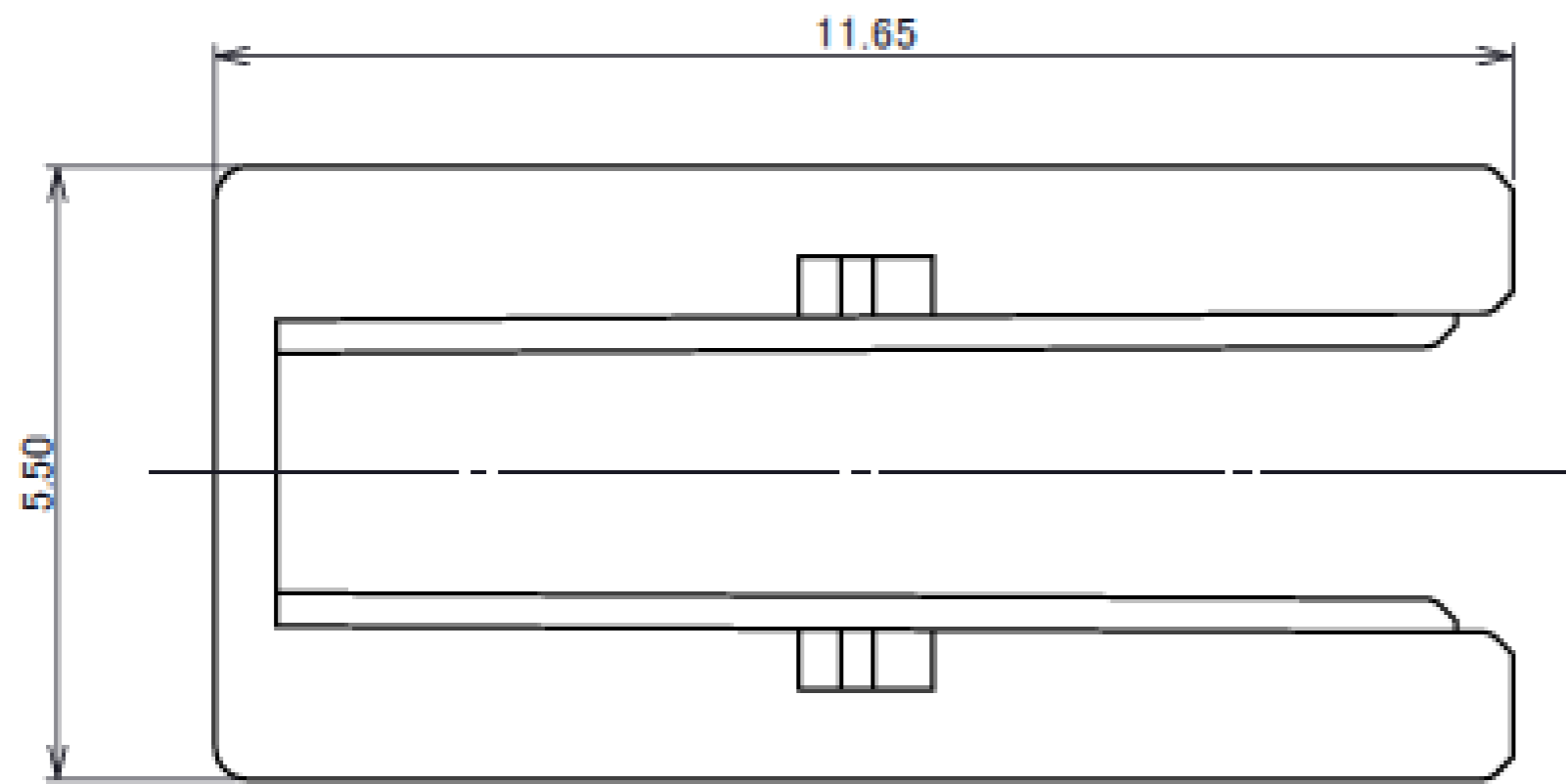
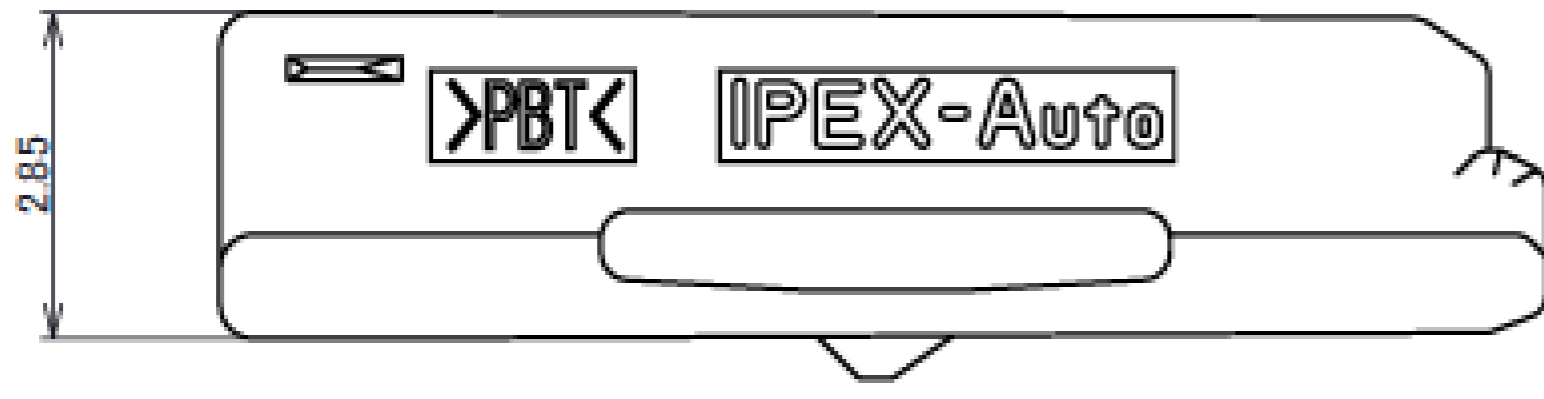
- NOTES
1. APPLICABLE PART NO.:
 - FEMALE HOUSING --- V0116-91008-**
 V0027-91008-211
 2. MATERIAL: PBT
 3. COMPLY WITH ELV/RoHS.
 4. HANDLE OF PRODUCT IN COMPLIANCE WITH HANDLING MANUAL [HDM-0020]

1	FEMALE RETAINER	PBT	BLACK
NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS

Rev.0

ISH® (Vertical Type) FEMALE RETAINER (10P):

PART NO.
V0020-92010-211



NOTES

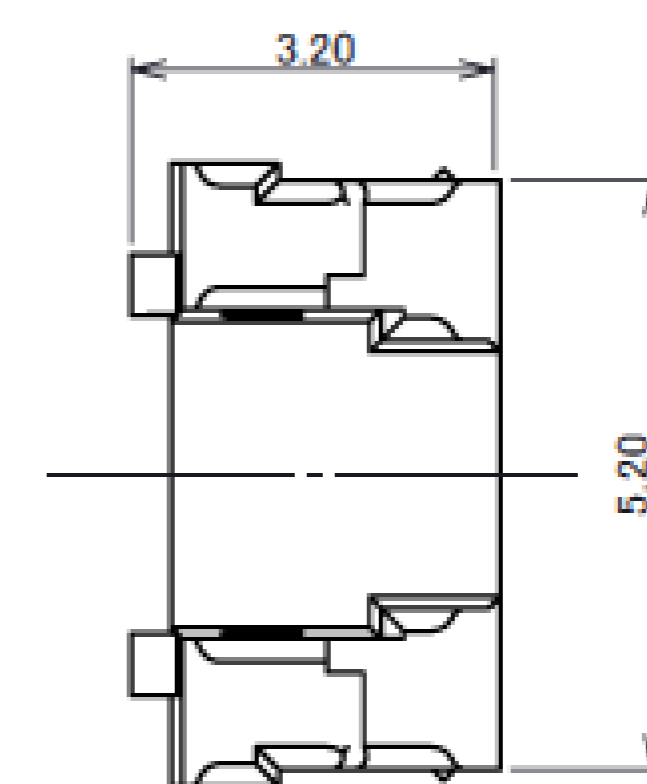
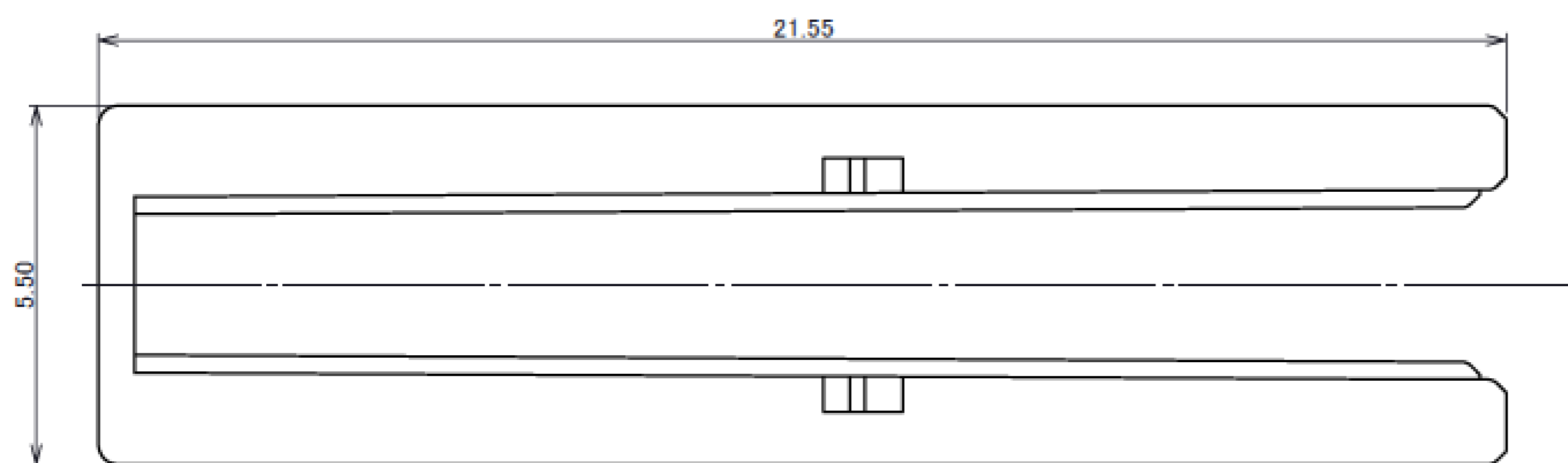
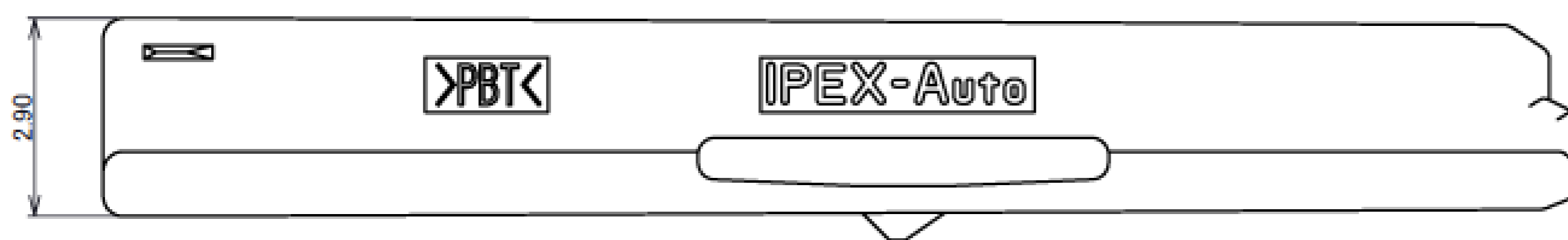
1. APPLICABLE PART NO.:
- FEMALE HOUSING - V0020-91010-211
2. MATERIAL: PBT
3. COMPLY WITH ELV/RoHS.
4. HANDLE OF PRODUCT IN COMPLIANCE WITH HANDLING MANUAL [HDM-0020]

1	FEMALE RETAINER	PBT	BLACK
NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS

Rev.0

ISH® (Vertical Type) FEMALE RETAINER (20P):

PART NO.
V0020-92020-211



NOTES

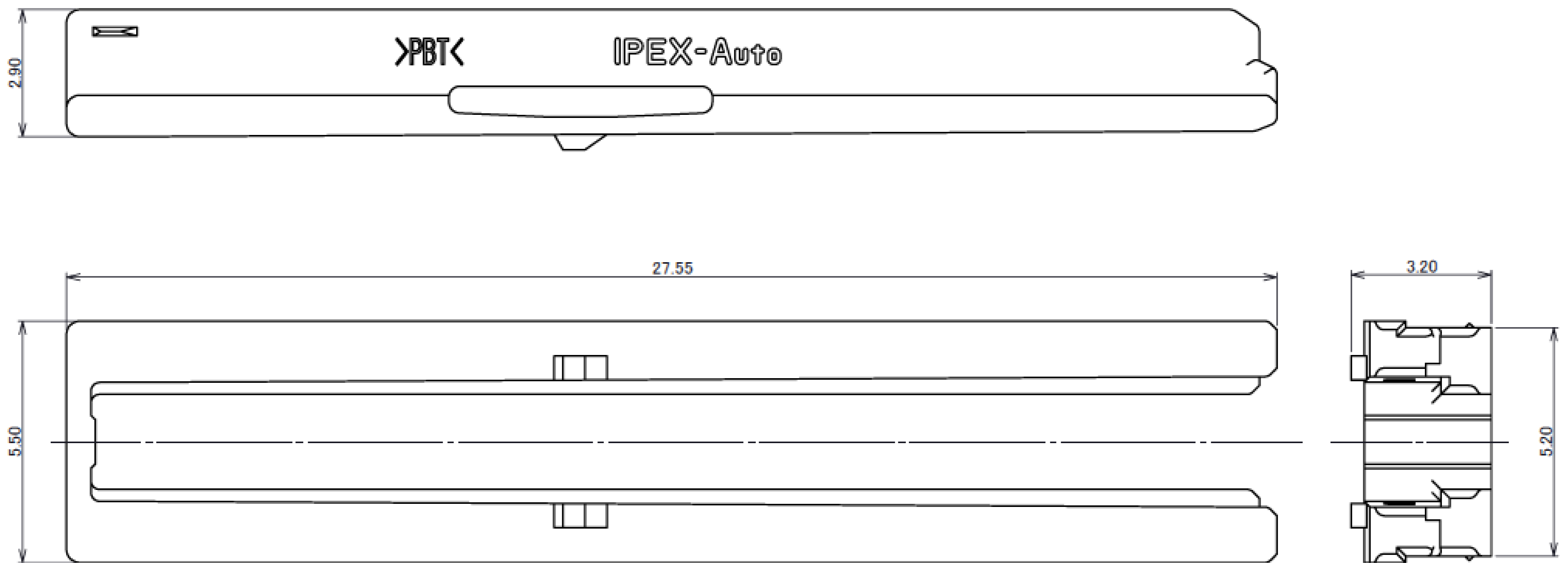
1. APPLICABLE PART NO.:
- FEMALE HOUSING - V0020-91020-211
2. MATERIAL: PBT
3. COMPLY WITH ELV/RoHS.
4. HANDLE OF PRODUCT IN COMPLIANCE WITH HANDLING MANUAL [HDM-0020]

1	FEMALE RETAINER	PBT	BLACK
NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS

Rev.0

ISH® (Vertical Type) FEMALE RETAINER (26P):

PART NO.
V0020-92026-211



NOTES

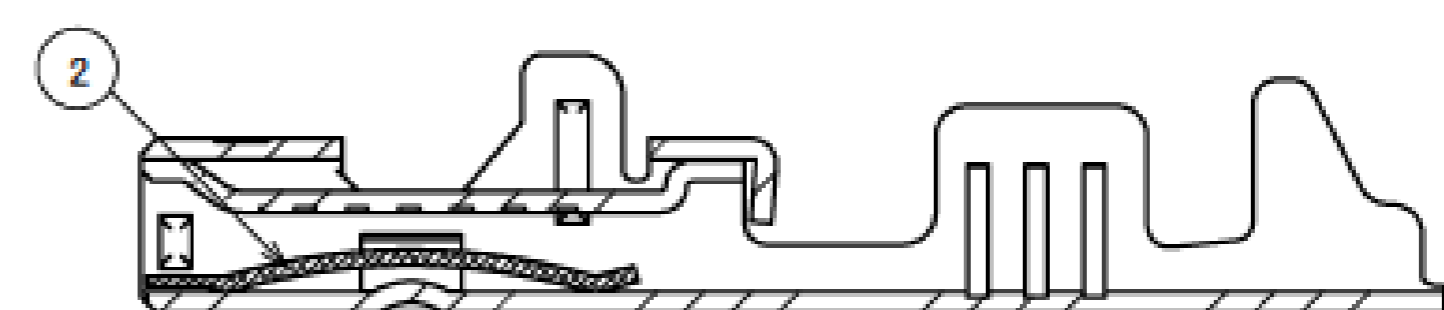
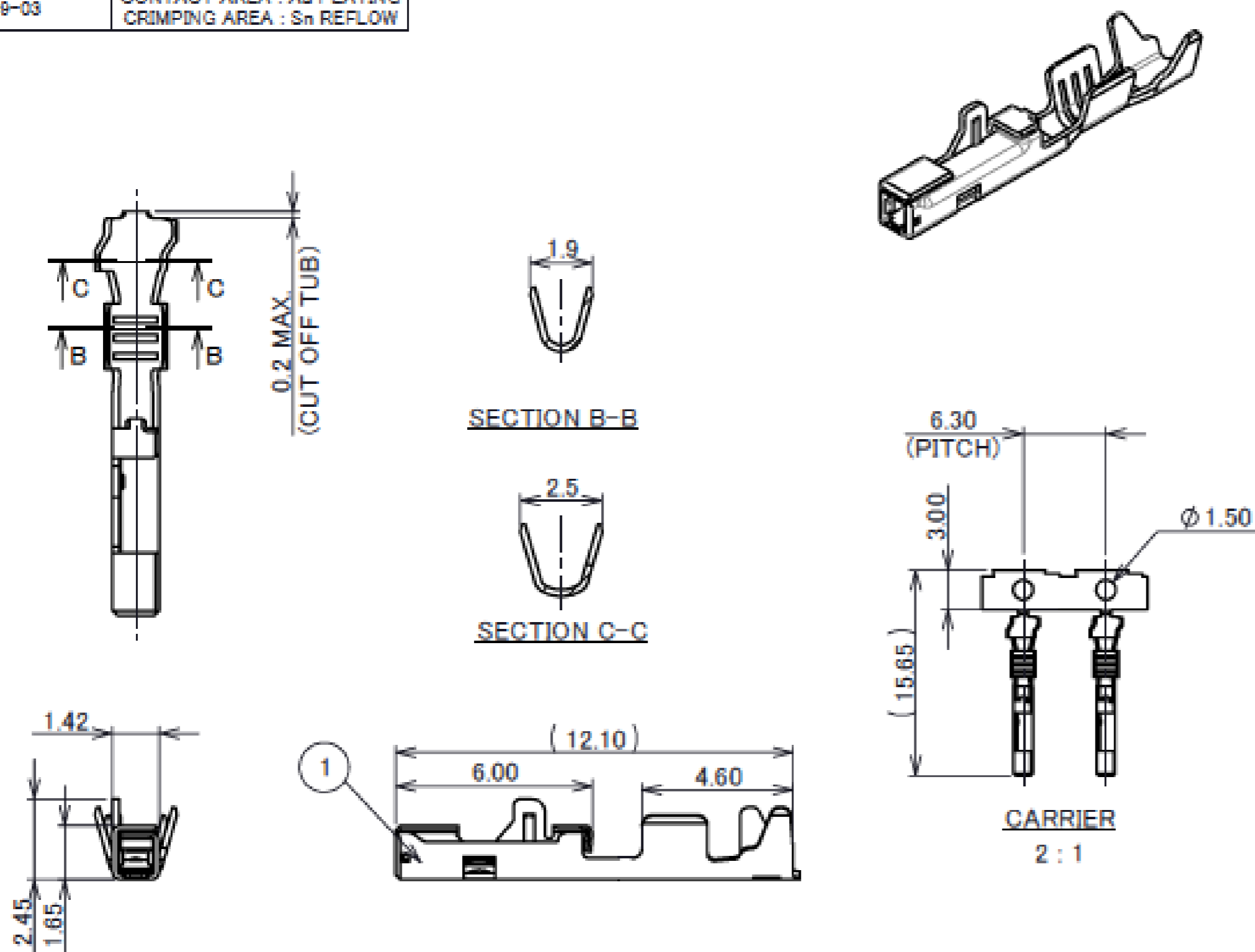
1. APPLICABLE PART NO.:
FEMALE HOUSING V0020-91026-211
2. MATERIAL: PBT
3. COMPLY WITH ELV/RoHS
4. HANDLE OF PRODUCT IN COMPLIANCE WITH HANDLING MANUAL [HDM-0020]

NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS
1	FEMALE RETAINER	PBT	BLACK

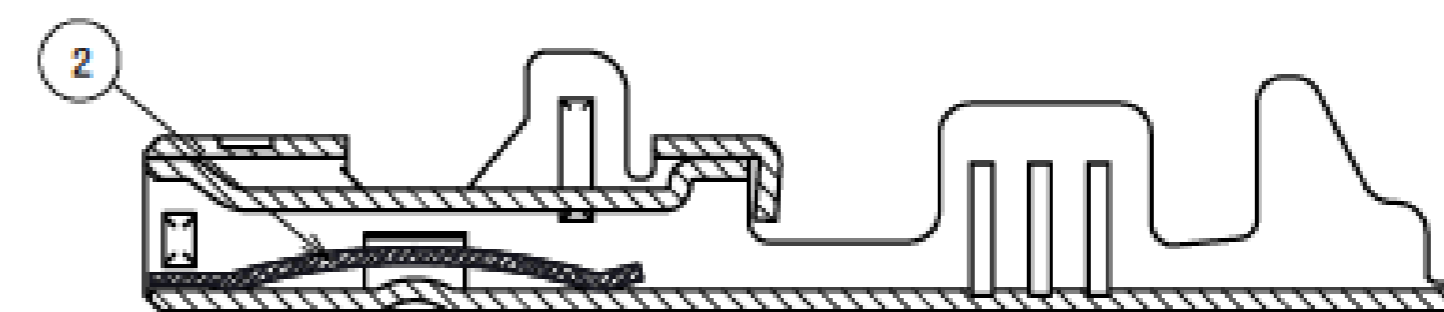
Rev.0

ISH® (Vertical Type) TERMINAL:

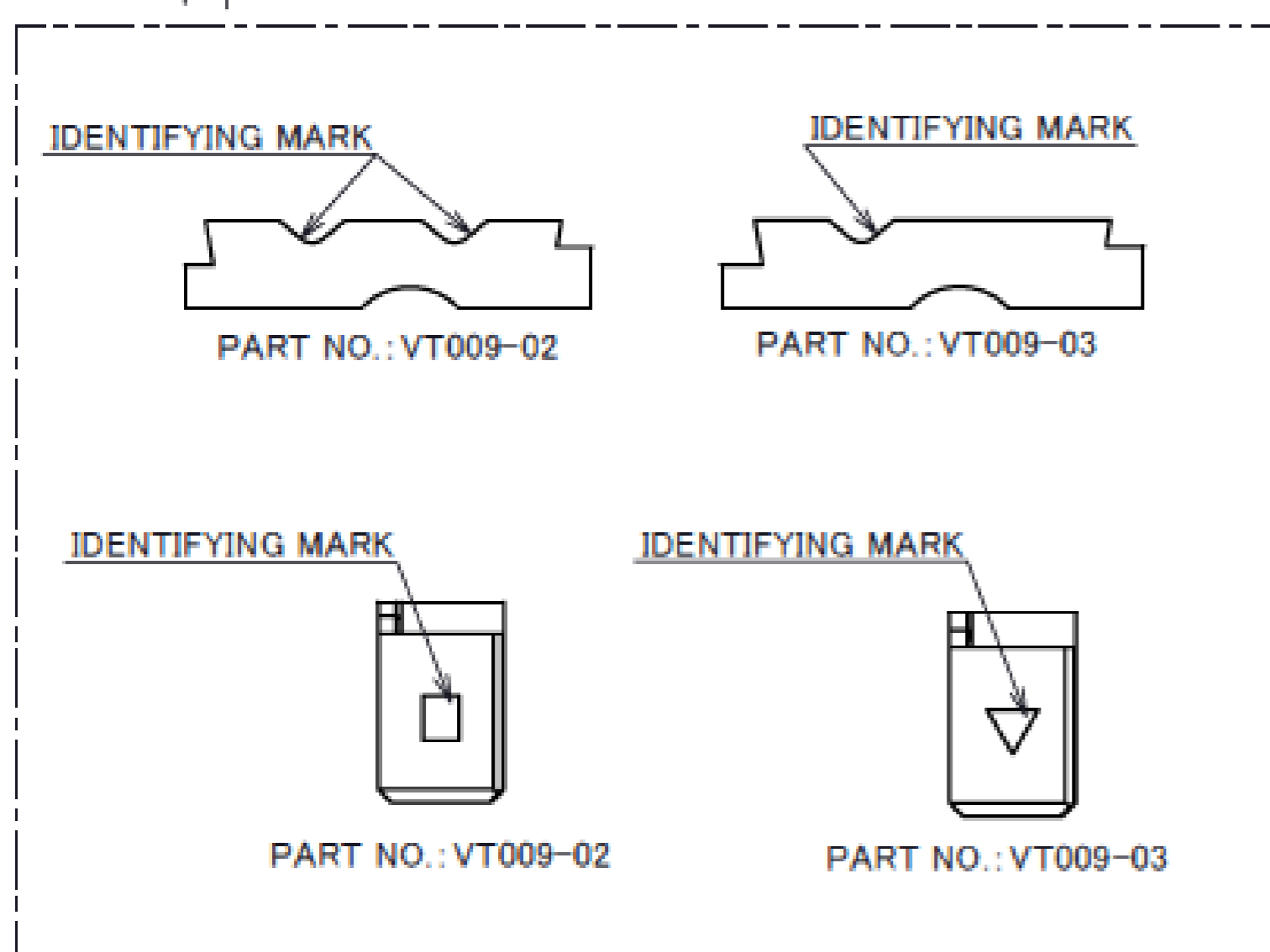
PART NO.	PLATING
VT009-02	Sn REFLOW
VT009-03	CONTACT AREA : Au PLATING CRIMPING AREA : Sn REFLOW



PART NO.: VT009-02



PART NO.: VT009-03
SECTION A-A
10 : 1



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].

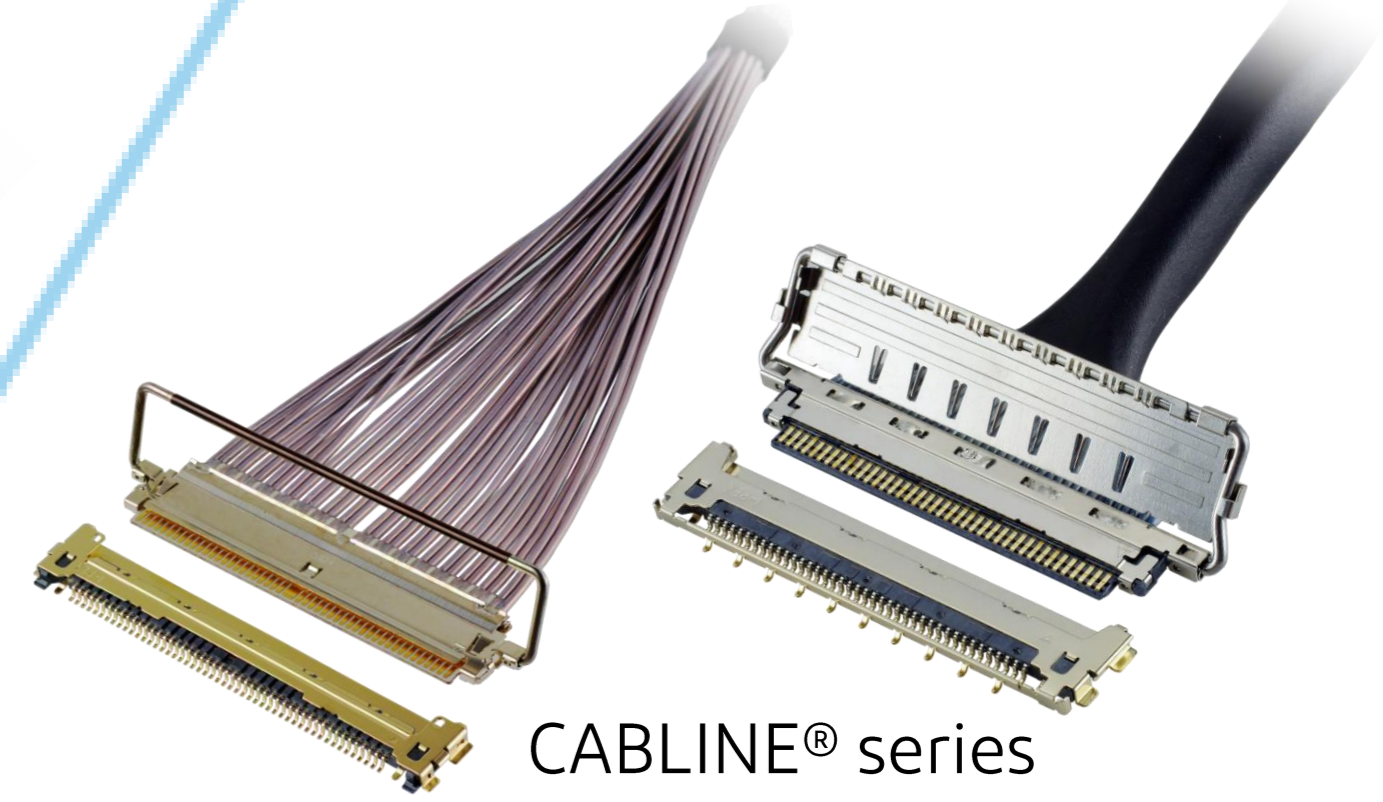
2	SPRING	COPPER ALLOY	VT009-02 PLATING : Sn REFLOW VT009-03 PLATING : Au PLATING
1	BODY	BRASS	VT009-02 PLATING : Sn REFLOW VT009-03 PLATING : Au PLATING CONTACT AREA : Au PLATING CRIMPING AREA : Sn REFLOW
NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS

Rev.0

Custom Connectors Available

RF Connectors

MHF® series



Micro-coaxial/Twinax Connectors



Wire-to-Board Connectors/Terminals

AP series

ISH® series



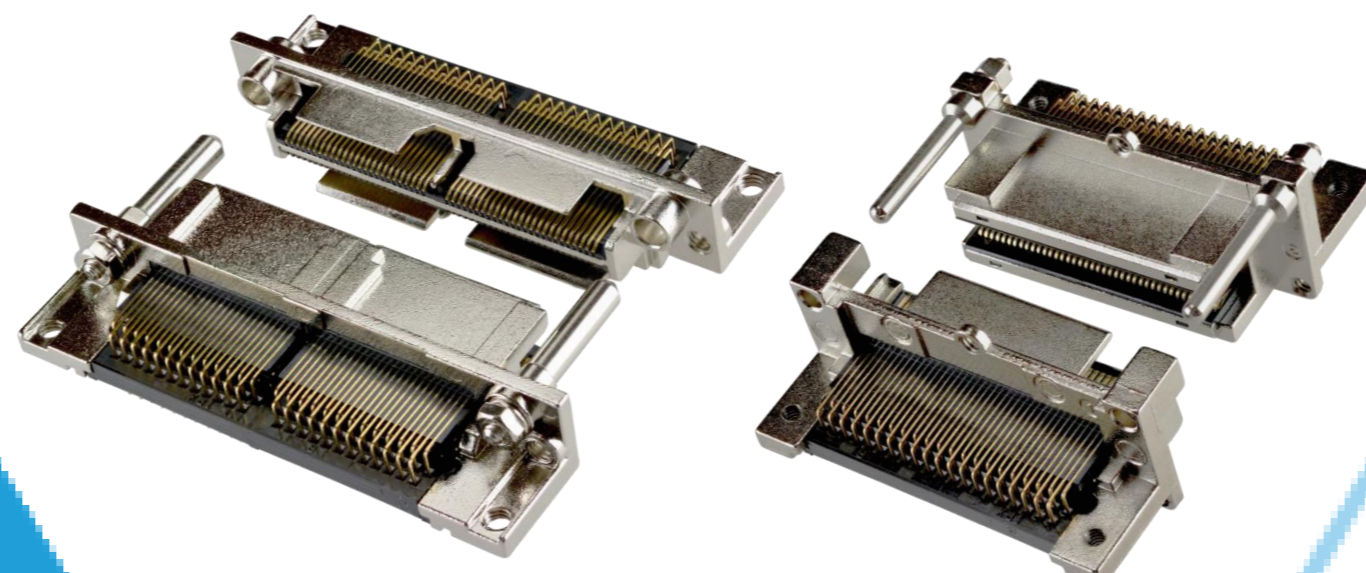
NOVASTACK® series



Board-to-Board Connectors

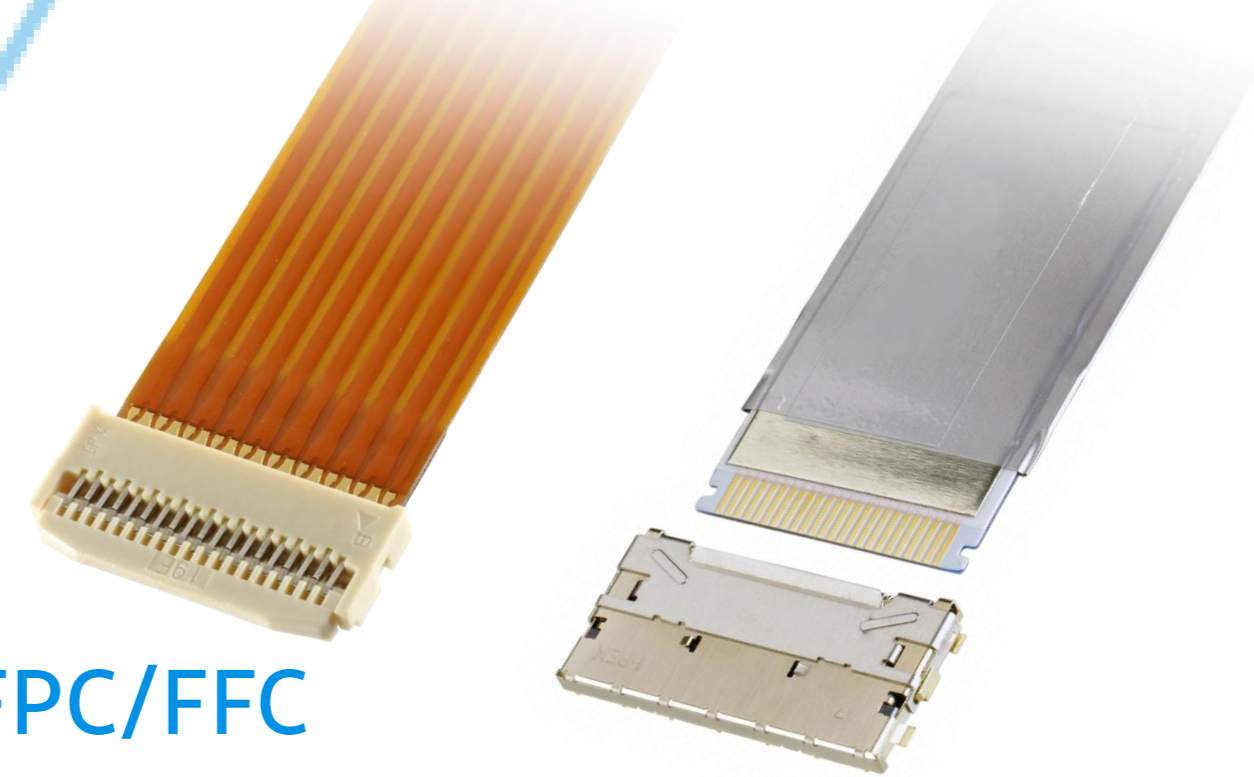


I/O Connectors



MINIDOCK™ series

MINIFLEX® series EVAFLEX® series



FPC/FFC Connectors



Inquiry



I-PEX, MHF, CABLINE, NOVASTACK, ISH, IARPB, MINIFLEX, EVAFLEX, MINIDOCK and ZenShield are registered trademarks of I-PEX Inc. Please note that the contents in the catalog might be changed without prior notification. I-PEX Inc. assumes no responsibility for any inaccuracies or obligation to update information on these documents. Please be sure to read and understand the latest "Precautions for Use" and "Instruction Manual" before you use our products. We shall not be responsible for any defects, damages or troubles in case you use our products without following the precautions for use. Please feel free to contact our sales representatives when you use our products for any applications that require very high reliability and safety, or that relate to human life (ex. nuclear power control, aerospace, transportation, medical equipment, safety equipment etc.).

Contact your sales representative or more detailed information.

www.i-pex.com



I-PEX

© I-PEX Inc. 2025
All rights reserved