

# ISH<sup>®</sup> (Wire-to-Wire Type)

耐高温・耐振動性に優れた電線対電線中継接続コネクタ

Product Specifications:		Single-row	Double-row
Pitch (mm max.)		2.0	
Contact Size (mm)		0.5 × 0.4(020)	
Mated Height (mm max.)		8.00	11.70
Width formula (mm)		4.9+2.0*?pin	5.3+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 40	Up to 40
	Available	3	8

#### Applicable Cable Size:

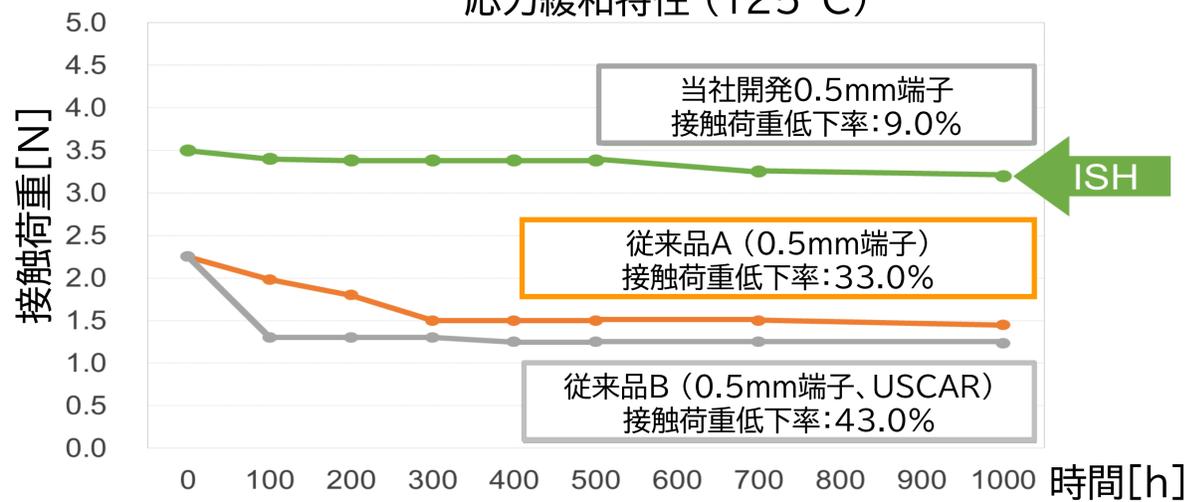
AWG#22,#20 \*Insulation Diameter 1.6 mm max.

\*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

応力緩和特性 (125°C)



## ▶ 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



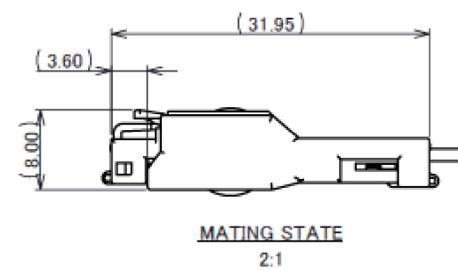
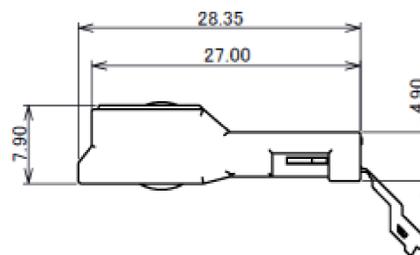
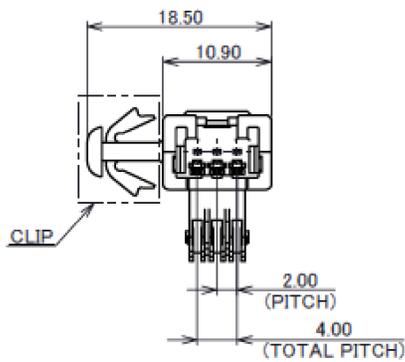
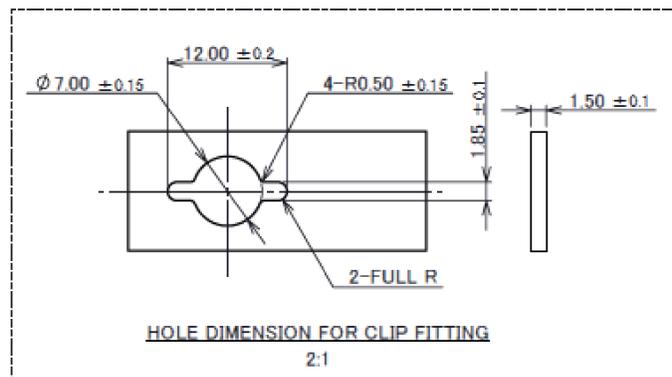
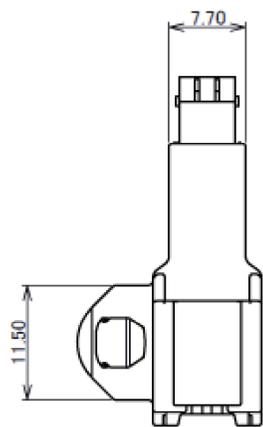
- オフロード車 (ATV/UTV車、QUAD車、3輪車)
- トラック、農機・建機(油圧ショベル、建機用ローダー)
- 工場自動化

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いただけます

# Component Parts Details

## ISH® (Wire-to-Wire Type) MALE (SINGLE ROW):

PART NO.
V0112-91003-01



- NOTES
1. INLINE MALE TERMINAL PART NO.: VT010-01
  2. FEMALE CONNECTOR
  3. FEMALE HOUSING PART NO.: V0113-91003-01
  4. FEMALE TERMINAL PART NO.: VT009-02
  5. COMPLY WITH ELV/ROHS
  6. HANDLE THE PRODUCT IN COMPLIANCE WITH HANDLING MANUAL [HDM-0024]

NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS
1	MALE HOUSING	PBT	BLACK/UL94HB

Rev.0

# ISH® (Wire-to-Wire Type) MALE (DOUBLE ROWS):

PART NO.	KEY CODING
V0031-008B-201	KEY CODING-A
V0031-008B-202	KEY CODING-B

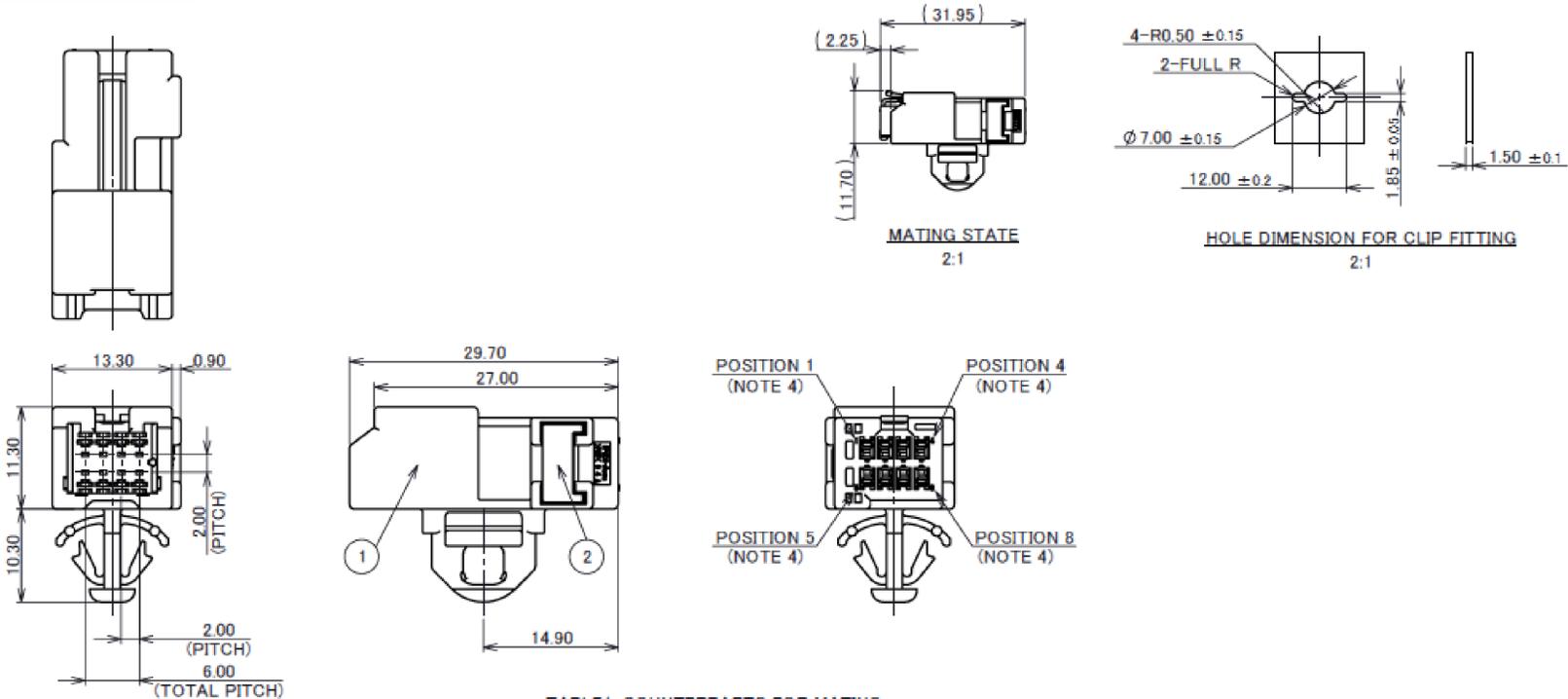


TABLE 1. COUNTERPARTS FOR MATING

KEY CODING	MALE CONNECTOR		FEMALE CONNECTOR					
	PART NO.	COLOR	PART NO.	COLOR	PART NO.	COLOR	PART NO.	FINISH
KEY CODING-A	V0122-008B-01	MALE HOUSING: BLACK MALE RETAINER: BLACK	V0116-91008-02	BLACK	V0116-92008-01	BLACK	VT009-02	Sn REFLOW
KEY CODING-B	V0122-008B-11	MALE HOUSING: NATURAL MALE RETAINER: BLACK	V0116-91008-12	NATURAL				

2	MALE RETAINER	GLASS-FILLED PBT	BLACK
1	MALE HOUSING	PBT	BLACK, NATURAL
NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS

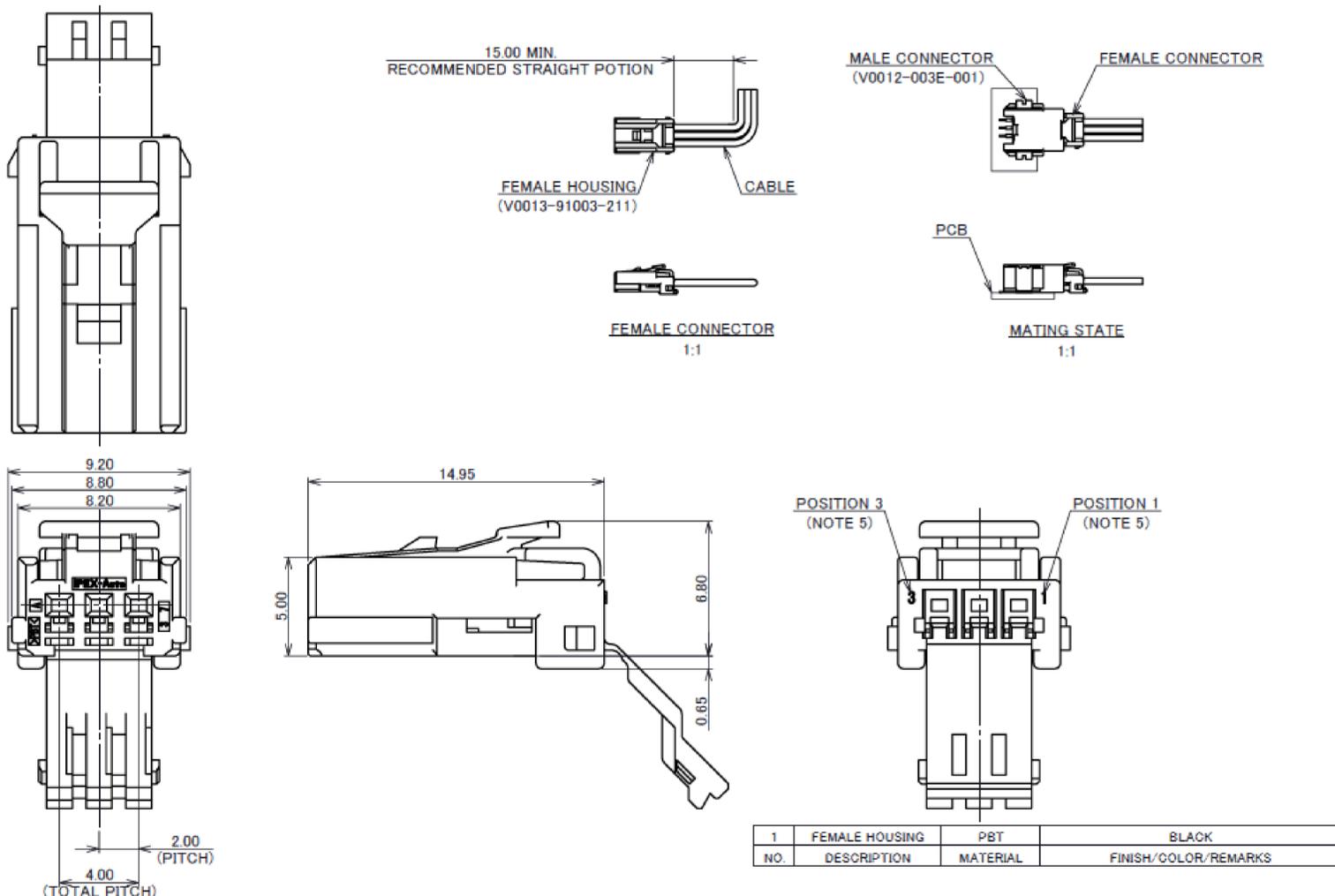
NOTES

1. APPLICABLE PART NO.:
  - MALE TERMINAL --- VT010-01
  - FEMALE CONNECTOR --- IT IS SHOWN IN TABLE 1.
2. COMPLY WITH ELV / RoHS.
3. HANDLE OF PRODUCT IN COMPLIANCE WITH HANDLING MANUAL [HDM-0022]
4. POSITION NUMBERS ARE INDICATED.

Rev.0

# ISH® (Wire-to-Wire Type) FEMALE (SINGLE ROW):

PART NO.	LOCK TYPE	KEY CODING	COLOR	FOR REAR COVER
V0113-91003-01	NORMAL ROCK	-	BLACK	N/A



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

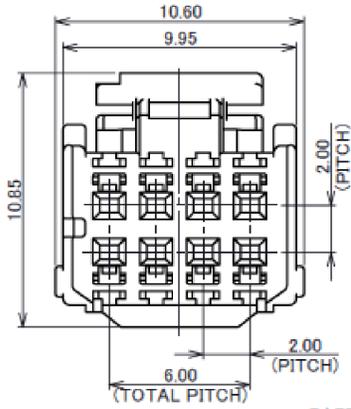
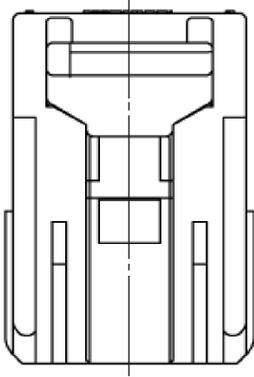
NOTES

1. APPLICABLE PART NO.:
  - FEMALE TERMINAL --- VT009-02
  - CABLE COVER --- V0113-93003-01
2. MATERIAL: PBT
3. COMPLY WITH ELV / RoHS.
4. HANDLE OF PRODUCT IN COMPLIANCE WITH HANDLING MANUAL [HDM-0020]
5. POSITION NUMBERS ARE INDICATED.

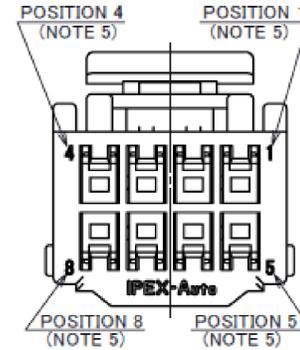
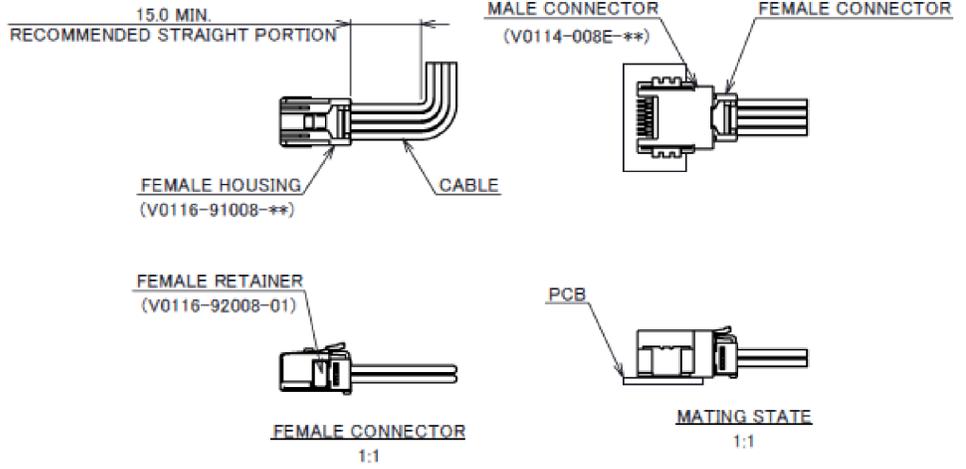
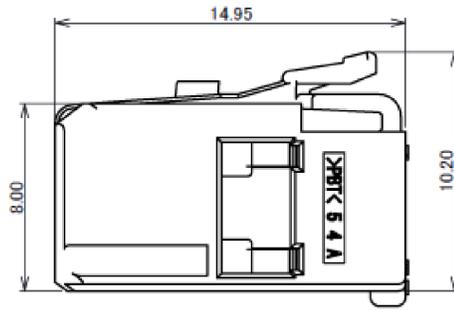
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# ISH® (Wire-to-Wire Type) FEMALE (DOUBLE ROWS):

PART NO.	LOCK TYPE	KEY CODING	COLOR	FOR REAR COVER
V0116-91008-02	INERTIA LOCK	KEY CODING-A	BLACK	N/A
V0116-91008-03				APPLICABLE
V0116-91008-12		KEY CODING-B	NATURAL	N/A
V0116-91008-22		KEY CODING-C	BLACK	
V0116-91008-32		KEY CODING-D	NATURAL	



PART NO.: V0116-91008-02



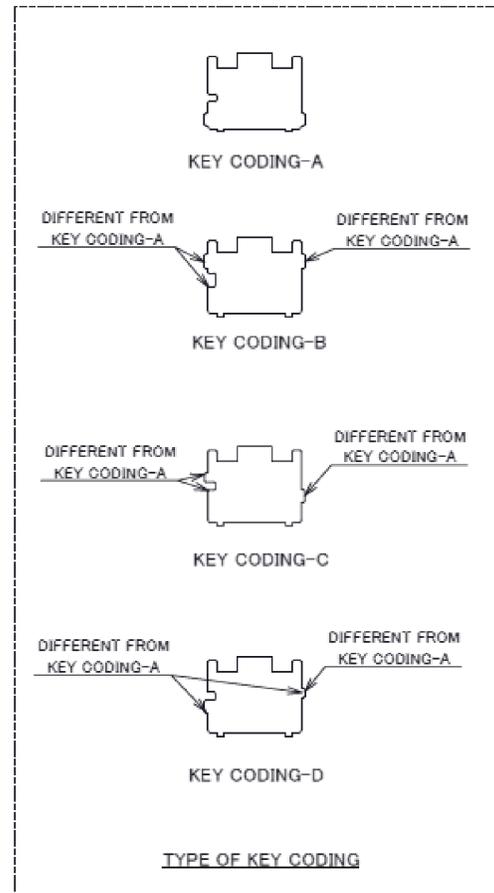
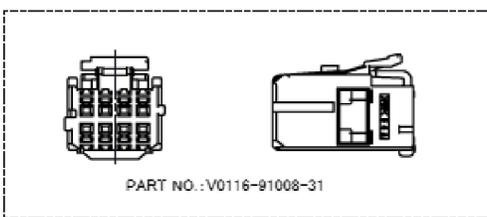
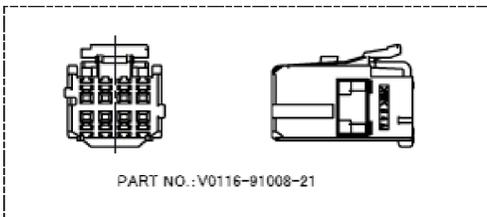
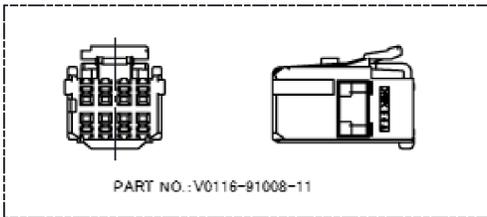
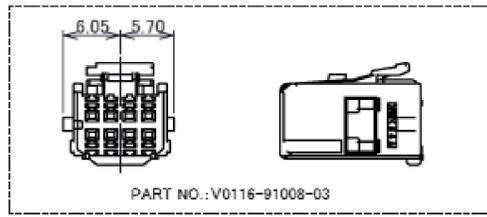
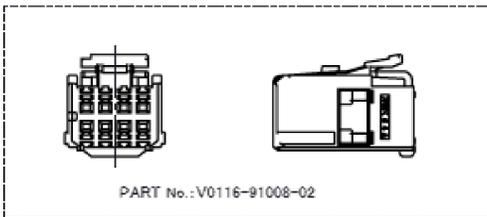
NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS
1	MALE HOUSING	PBT	BLACK, NATURAL

- NOTES
1. APPLICABLE PART NO.:  
 - FEMALE TERMINAL --- VT009-02  
 - FEMALE RETAINER --- V0116-92008-01  
 - REAR COVER --- V0116-94008-01
  2. MATERIAL: PBT
  3. COMPLY WITH ELV/REHS.
  4. HANDLE OF PRODUCT IN COMPLIANCE WITH HANDLING MANUAL [HDM-0020]
  5. POSITION NUMBERS ARE INDICATED.

Rev.0

# ISH® (Wire-to-Wire Type) FEMALE (DOUBLE ROWS):

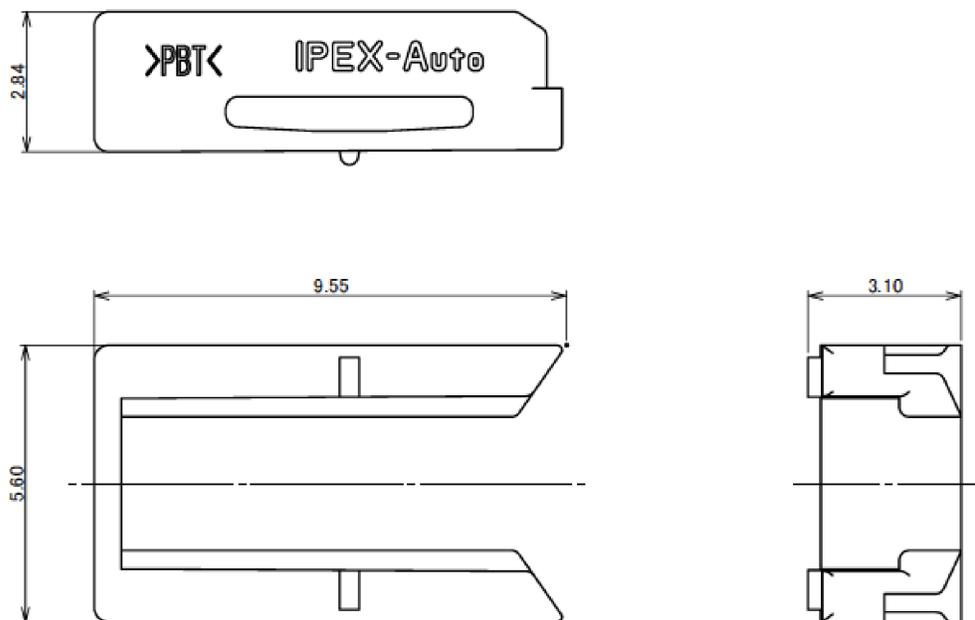
PART NO.	LOCK TYPE	KEY CODING	COLOR	FOR REAR COVER
V0116-91008-02	INERTIA LOCK	KEY CODING-A	BLACK	N/A
V0116-91008-03				APPLICABLE
V0116-91008-12		KEY CODING-B	NATURAL	N/A
V0116-91008-22		KEY CODING-C	BLACK	
V0116-91008-32		KEY CODING-D	NATURAL	



Rev.0

# ISH® (Wire-to-Wire Type) FEMALE RETAINER (DOUBLE ROWS):

PART NO.
V0116-92008-01



## NOTES

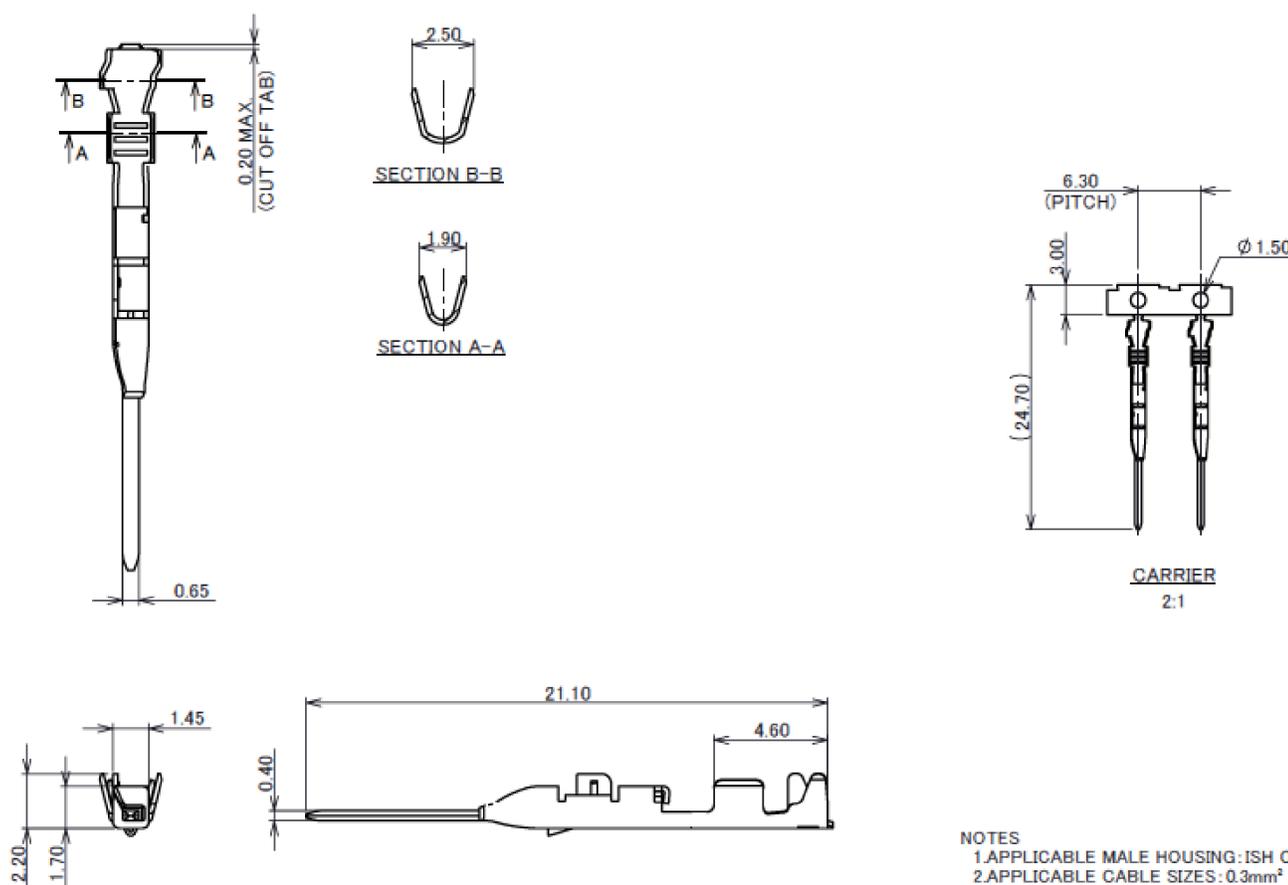
1. APPLICABLE PART NO.:  
 \*FEMALE HOUSING\*\* V0116-91008-\*\*  
 V0119-91008-01
2. MATERIAL: PBT
3. COMPLY WITH ELV/RoHS.
4. HANDLE OF PRODUCT IN COMPLIANCE WITH HANDLING MANUAL [HDM-0020]

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

Rev.0

# ISH® (Wire-to-Wire Type) TERMINAL (for MALE):

PART NO.	PLATING
VT010-01	Sn REFLOW



## NOTES

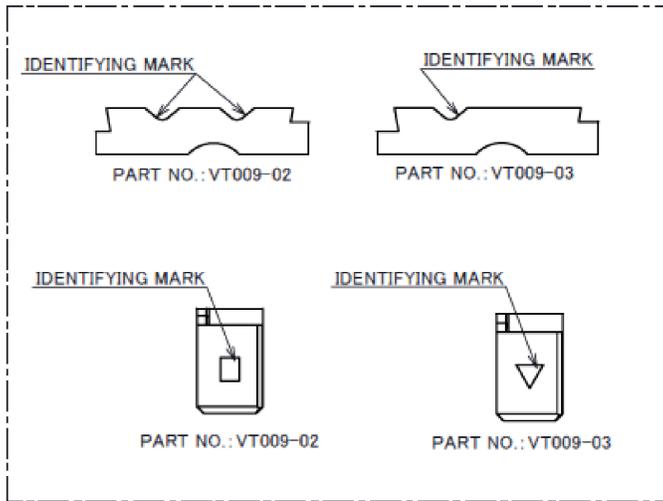
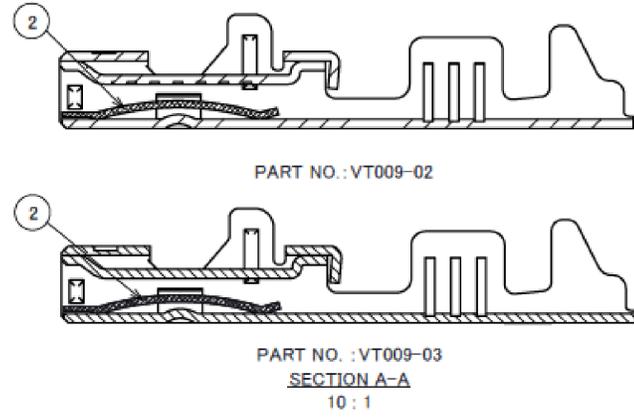
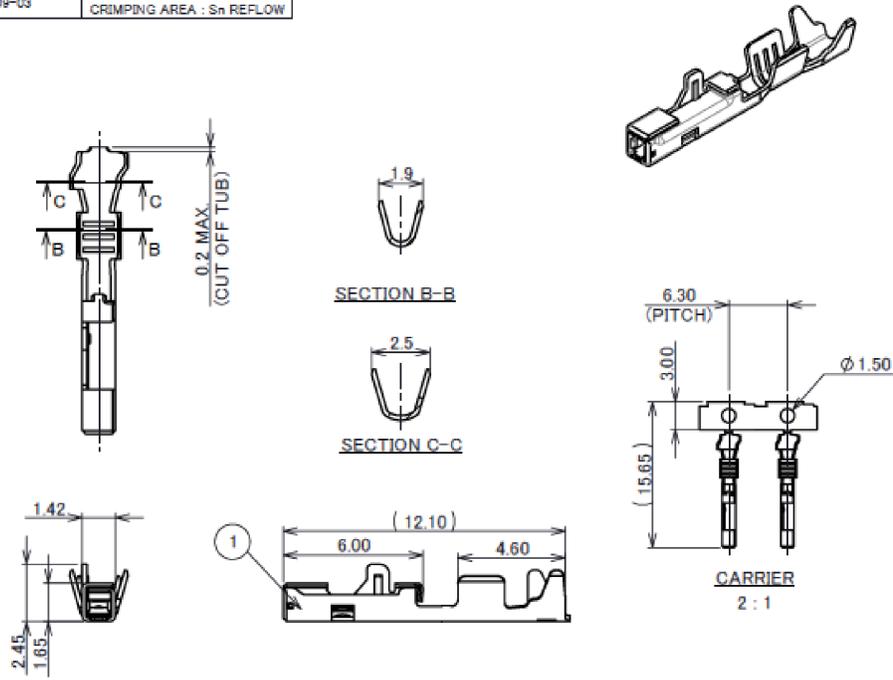
1. APPLICABLE MALE HOUSING: ISH CONNECTOR SERIES
2. APPLICABLE CABLE SIZES: 0.3mm<sup>2</sup> / 0.5mm<sup>2</sup> (FINISHED  $\phi$  1.60mm MAX.)
3. MATERIAL: BRASS  
 PLATING: Sn REFLOW
4. COMPLY WITH ELV/RoHS.
5. TERMINAL CRIMP SPECIFICATION MUST BE COMPLIANT WITH HANDLING MANUAL [HDM-0022],[HDM-0024]

1	MALE TERMINAL	BRASS	PLATING: Sn REFLOW
NO.	DESCRIPTION	MATERIAL	FINISH/COLOR/REMARKS

Rev.0

# ISH® (Wire-to-Wire Type) TERMINAL (for FEMALE):

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: 0.3mm<sup>2</sup> / 0.5mm<sup>2</sup> (FINISHED  $\phi$  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



CABLINE® series

## Micro-coaxial/Twinax Connectors



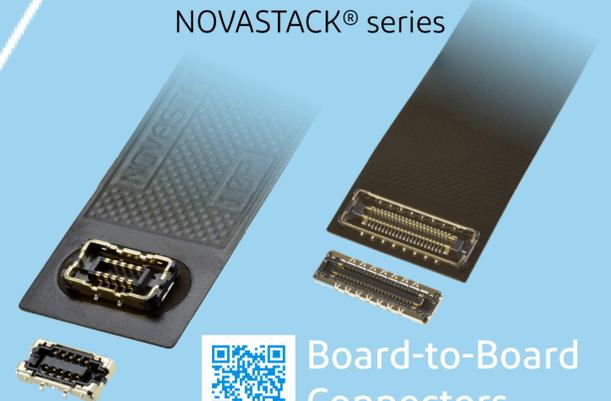
## Wire-to-Board Connectors/Terminals

AP series

ISH® series



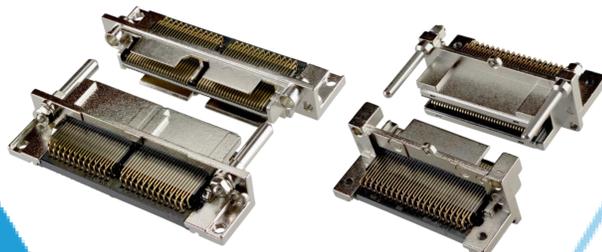
NOVASTACK® series



## Board-to-Board Connectors



## I/O Connectors



MINIDOCK™ series

MINIFLEX® series EVAFLEX® series



## FPC/FFC Connectors



Inquiry



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