



Title of Document:	<b>HANDLING MANUAL</b>	Issue No. CHM-1-2204	Rev. 2
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This manual describes important and required points of handling about ASR connector.  
Be sure to read this manual thoroughly before using ASR connector.

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## 1. Storage

### 1.1. Storing the connectors

Recommended storage condition: Temperature: 5 – 35 °C, Relative humidity 60 % or less  
(Under packaging like the state of JST shipment)

Keep off direct sunlight, places exposing to such corrosive gas as industrial gas (generate from a stove and whatnot) and ammonia gas (generate from a toilet and whatnot) and dusty place.

Especially, note that the seal ring and the seal rubber plate exposed to direct sunshine brings about deterioration of the rubber and adhesion of dust, affecting the waterproof performance. Also, keep the storage room from condensation.

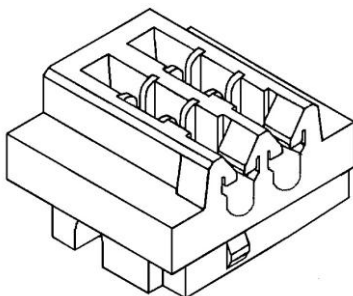
Note that the resin molding part may break due to transportation and handling, such as processing and mating, under dry or low temperature condition.

After unpacking, return the products in the original package to store.

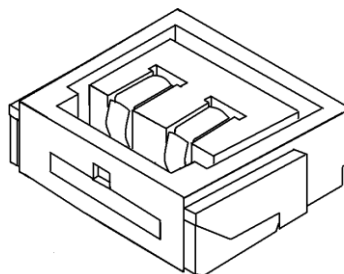
### 1.2. Storing the crimped contacts

Not leaving the crimped contact to stand in a place exposed to high humidity and direct sunshine, and not placing them directly on the ground. Keep them in a clean storage room.

## 2. Part Name



Receptacle



Header

## 3. Product Name and Model Number

Product name		Model No.
Header	Loose piece product	BM**B-ASR( ) (LF)(SN)
	Embossed-taping product	BM**B-ASR( )-TF (LF)(SN)
Receptacle		**ASR-30( )

Note<sub>1</sub>: 2-digit figures in asterisks denote the circuit number

Note<sub>2</sub>: A letter in ( ) denotes the color.

Note<sub>3</sub>: The identification mark, "(LF)(SN)" denotes lead-free products.  
"(LF)(SN)" is shown on the label.

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#### 4. Applicable Wire

Item	Rated value	
Wire size	AWG #30	
Wire insulation material	Halogen-free	PVC
Wire insulation outer dia.	$\phi$ 0.52 mm	$\phi$ 0.54 mm – 0.58 mm
Conductor spec.	Annealed copper wire with tin plating (7 stranded wire)	

Note<sub>4</sub>: Use the wire that we have confirmed the applicability with the connector.

#### 5. Terminating Operation

Regarding the terminating work, refer to IDC Manual No. TCM-0-032 “Handling Manual for ASR Connector.”

## 6. Handling Precautions

### 6.1. Mating the connector

Mate the receptacle with the header straightly on the same axis as shown in Fig.-1.  
Do not pry it during the operation, because prying insertion may cause buckling.

Besides, after mating, check that there is no clearance between the header and the receptacle as shown in Fig.-2, because electrical discontinuity may be caused.

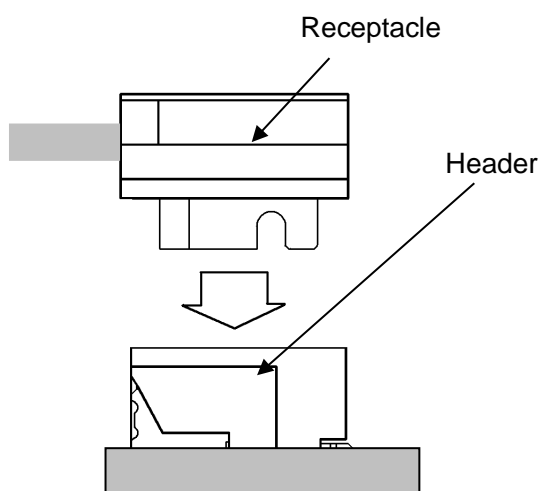


Fig.-1 How to mate the connector

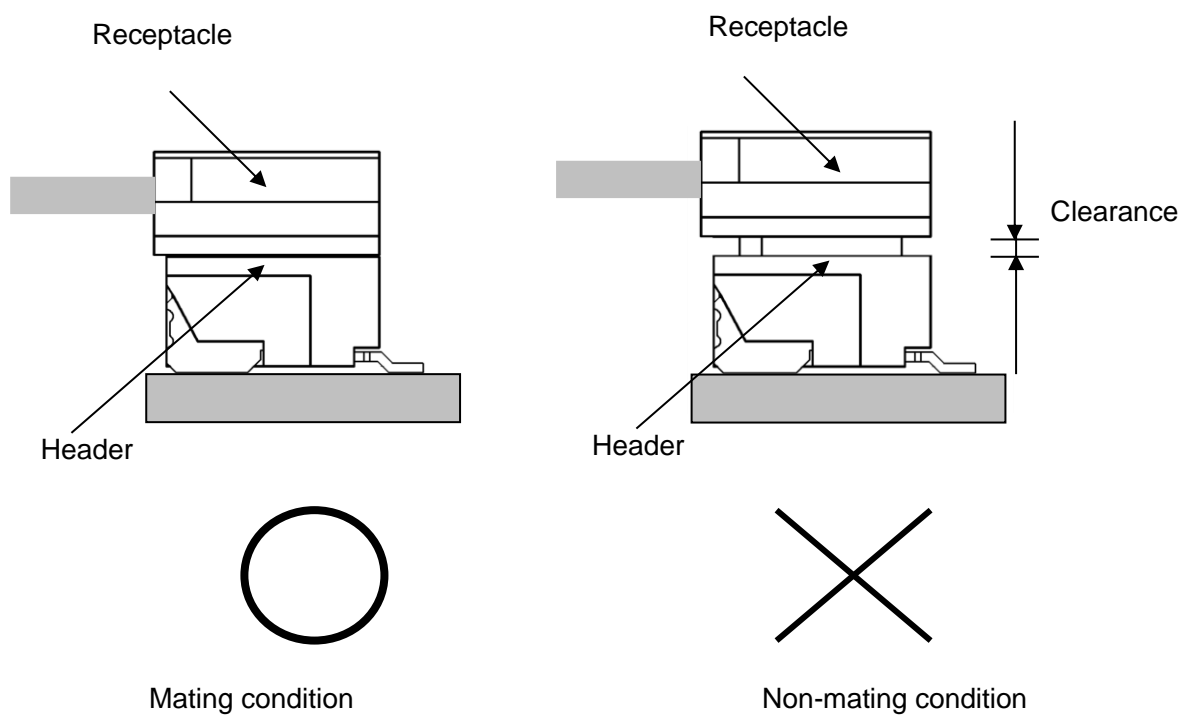


Fig.-2 Mating condition

## 6.2. Unmating the connector

Holding the receptacle or wires in a bundle, unmate the receptacle from the header on the same axis.

When holding wires in a bundle, conduct the operation within 10 degrees to the mating axis.

Do not unmate the receptacle forcibly at an angle more than 10 degrees (what we call prying withdrawal), because the connector may break.

Unmating the receptacle with holding wires of only several circuits around either one end is same as prying withdrawal.

Unmating the receptacle without holding all wires may bring about wire disconnection.

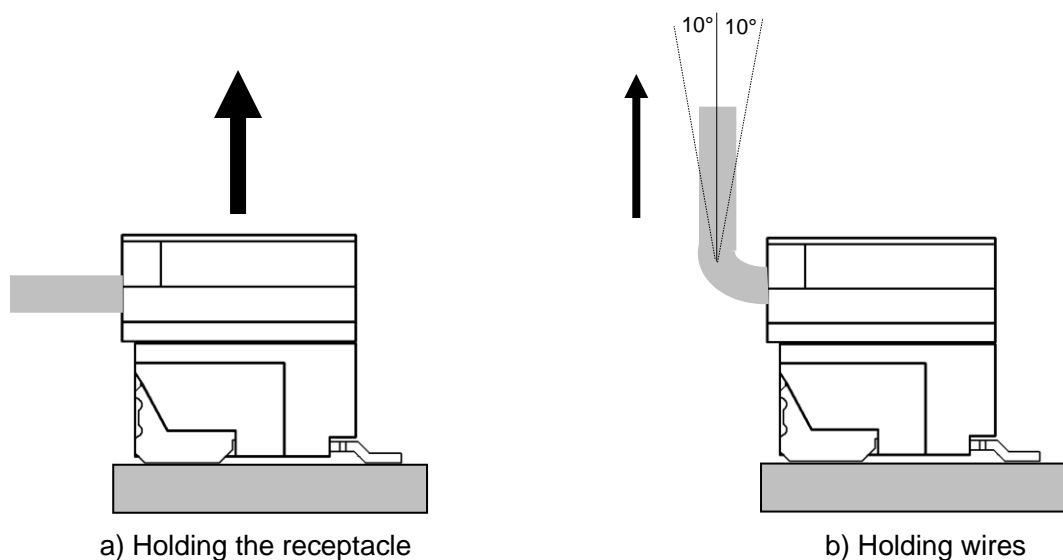


Fig.-3 How to unmate the connector

## 6.3. Handling wires

Handle wires with care not to apply tension stemmed from wire bending to the connector.