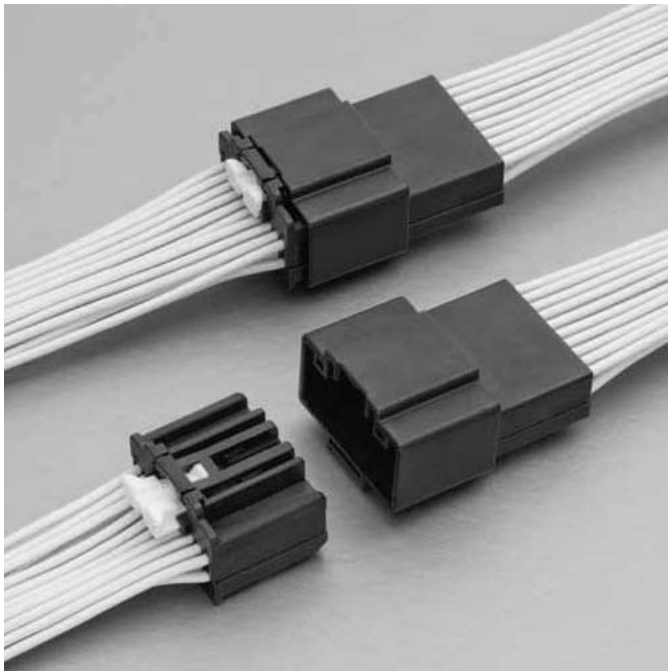


MSA CONNECTOR

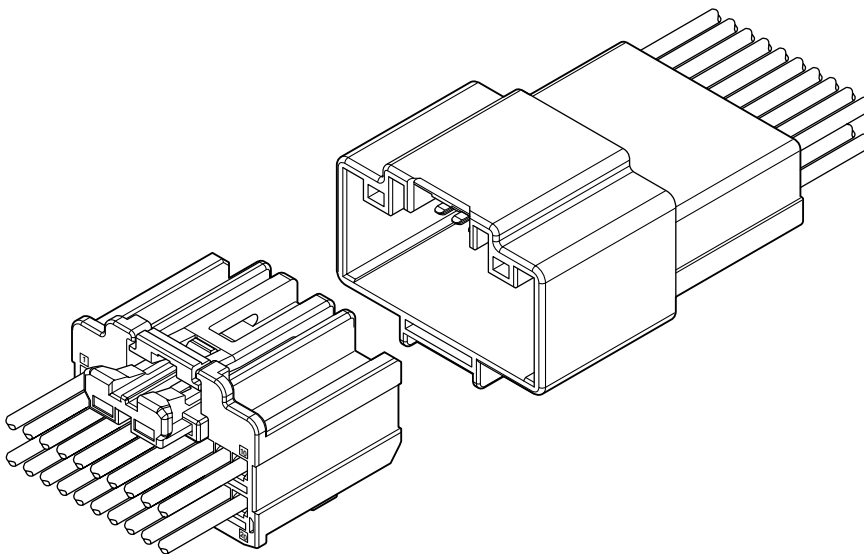
Wire-to-wire



Features

- 20 circuits, Wire-to-Wire Connection
- Connector Position Assurance (CPA) Design
- Unsealed Inline Connector
- 1.2 mm Terminal Compliant with USCAR Standards

1.2 mm unsealed wire-to-wire connector system for automotive applications.



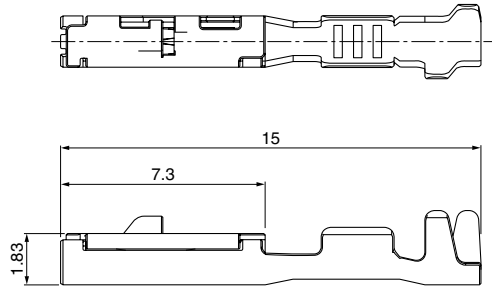
Specifications

- Current rating: 14 A AC, DC max (0.75 mm², Single circuit)
- Voltage rating: 14 V AC, DC
- Temperature range: -40°C to +105°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 8 mΩ max.
After environmental tests/ 8 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: 1,000 VAC/minute
- Applicable wire: FLRY-A 0.35 to 0.75 mm²
FLRY-B 0.75 mm²

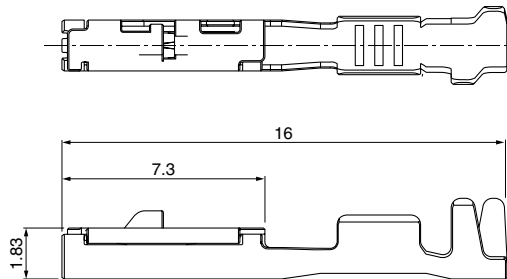
* Compliant with ELV/RoHS.
* Contact JST for details.

Female terminal

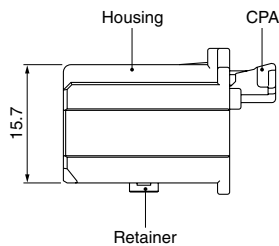
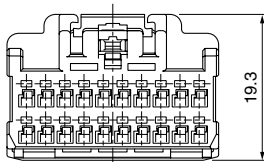
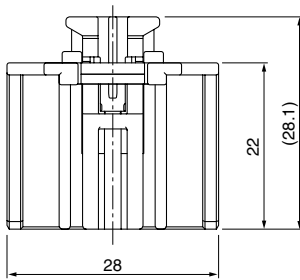
SS barrel



S barrel



Female connector



Size	Model No.	Applicable wire range		Q'ty/reel
		Conductor (mm ²)	Insulation O.D. (mm)	
SS	①SMSA-A011T-M1.2	0.35	1.2 to 1.4	9,000
S	①SMSA-A031T-M1.2	0.5 to 0.75	1.6 to 1.9	8,500
SS	②SMSA-A011A-M1.2	0.35	1.2 to 1.4	9,000
S	②SMSA-A031A-M1.2	0.5 to 0.75	1.6 to 1.9	8,500

Material and Finish

①Copper alloy, tin-plated (reflow treatment)

②Copper alloy, nickel-undercoated, Contact area: silver-plated
Barrel area: tin-plated

Circuits	Model No.	Q'ty/box	Housing Color
20	20MSA-RBC-1A-A-K	378	Black

Material

Housing: PBT

Retainer: Glass-filled PBT, Natural (White)

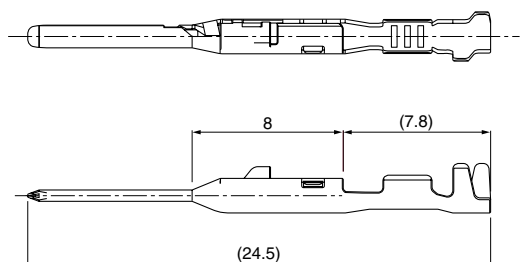
CPA: Glass-filled PBT, Natural (White)

Note: Color/Key codes other than above-mentioned housing are also available.
Contact JST for details.

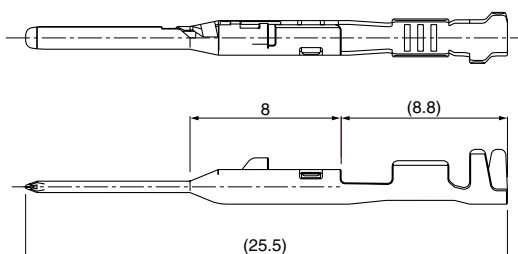
MSA CONNECTOR

Male terminal

SS barrel



S barrel

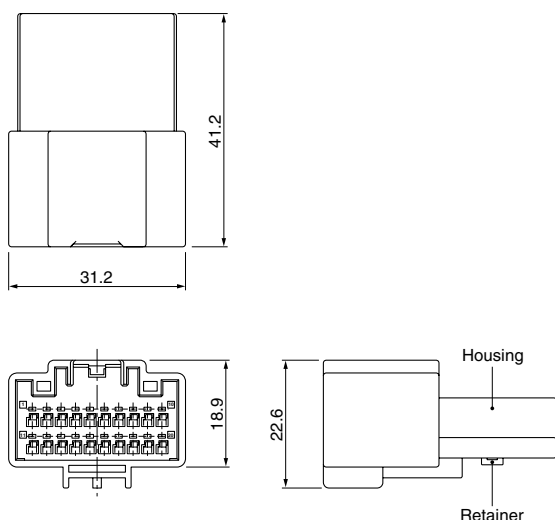


Size	Model No.	Applicable wire range		Q'ty/reel
		Conductor (mm ²)	Insulation O.D. (mm)	
SS	① SMSAW-A011T-M1.2	0.35	1.2 to 1.4	9,000
S	① SMSAW-A031T-M1.2	0.5 to 0.75	1.6 to 1.9	9,000
SS	② SMSAW-A011A-M1.2	0.35	1.2 to 1.4	9,000
S	② SMSAW-A031A-M1.2	0.5 to 0.75	1.6 to 1.9	9,000

Material and Finish

- ① Copper alloy, tin-plated (reflow treatment)
 ② Copper alloy, nickel-undercoated, Contact area: silver-plated
 Barrel area: tin-plated

Male connector



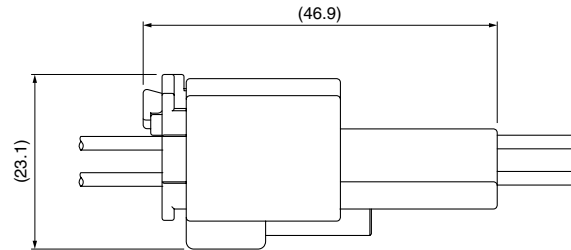
Circuits	Model No.	Q'ty/box	Housing Color
20	20MSA-PB-1A-A-K	216	Black

Material

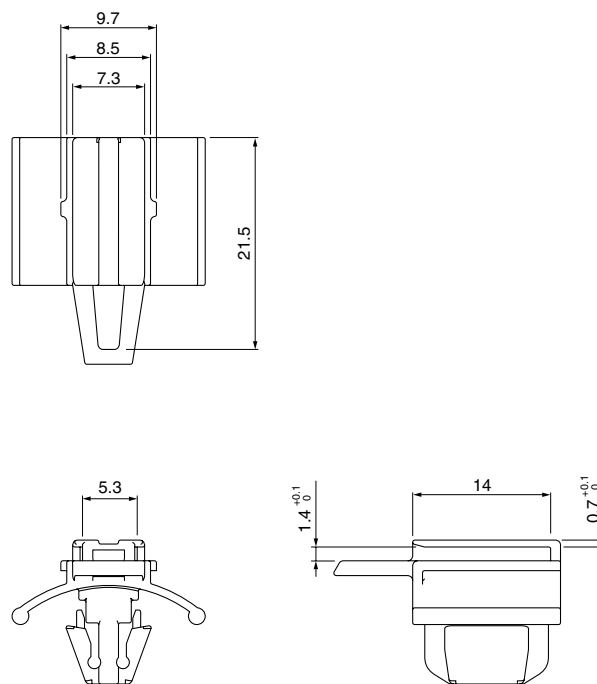
Housing: PBT
 Retainer: Glass-filled PBT, Natural (White)

Note: Color/Key codes other than above-mentioned housing are also available.
 Contact JST for details.

Assembly layout



Clip layout



Recommended clip layout

Crimping machine, Applicator

Strip terminal	Crimping machine	Crimp applicator MKS-L	
		Dies	Crimp applicator with dies
SMSA-A011()-M1.2	AP-K2N	MK/SMSA-A011-12	APLMK SMSA-A011-12
SMSA-A031()-M1.2		MK/SMSA-A031-12	APLMK SMSA-A031-12
SMSAW-A011()-M1.2		MK/SMSAW-A011-12	APLMK SMSAW-A011-12
SMSAW-A031()-M1.2		MK/SMSAW-A031-12	APLMK SMSAW-A031-12

Note: 1. Contact JST for details.

2. When crimping operation is conducted using an applicator and die set other than the above, JST cannot guarantee the performance of the terminal.