

Performance Data, Contacts and Application Tooling

Performance Data

Voltage Rating: 600V max.
Current Rating: *see note
 1 & 2 position — 12A max.
 6 position — 9A max.
 12 position — 8A max.
Operating Temperature:
 -30~+105°C

Insulation Resistance:
 100MΩ min. (500V DC)
Dielectric Withstanding Voltage: 2,200V AC
Wire Range:
 AWG #26-16 (0.12~1.42mm²)

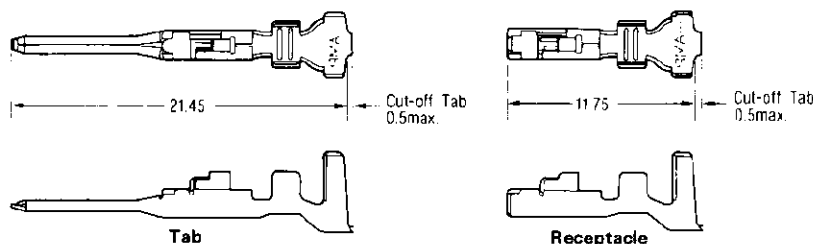
Wire Insulation Diameter:
 3.4mm max. for two leads
Contact Retention Force:
 4kg max.
Product specification: 108-5302
Application specification: 114-5142
Instruction Sheet: IS-503J

Contacts

Material & Finish:
 Pre-tinned brass or tin-plated
 high conductivity copper alloy

Tab — For Cap Housing
 Receptacle — For Plug Housing

*Note: For current rating on high conductivity copper alloy contact, consult Product Specification 108-5302.



Wire Range		Wire Insulation Diameter	Part Number of Contact				Part No. of Hand Tool
AWG	mm ²		Tab		Receptacle		
			Strip Form	Loose Piece	Strip Form	Loose Piece	
26-22	0.12~0.35	1.2~2.00	175149-□	175153-□	175151-□	175155-□	
20-16	0.50~1.42	2.0~3.30	175150-□	175154-□	175152-□	175156-□	914181-1
		2.9~4.00	—	—	175152-3	—	

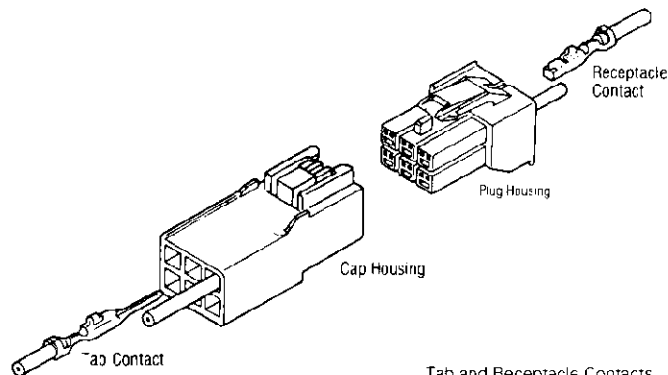
Part No. of Extraction Tool: 913923-1 (IS-494J) Use 913923-4 for special specifications of more than 3.5mm in insulation height.
 There are two suffix numbers, -1 and -2, to go in □ of P/N. -1 stands for tin-plated high conductivity copper alloy and -2 tin-plated brass. P/N 175152-3 is made of tin-plated brass and is used exclusively for termination of power cable using SCIM (see page application tooling).

Safety Standards

AMP Universal Power Connectors are approved on specific part numbers under the safety standards listed below. For confirmation of approval, contact our Sales Department by indicating the part number(s) in question. Please note that there are instances where these standards differ from AMP's performance specifications.

- **Recognized by UL.**
 UL File No. E28476
 Voltage Rating: 600V
 Temperature Rating: 130 °C
- **Certified by CSA**
 CSA Report No. LR7189
 Voltage Rating: 600V max.
 Current Rating: 12A max.
- **TÜV License**
 No. R9051079 (VDE0627)
 Voltage Rating: 380V AC/ 450V DC
 Current Rating: Refer to Product Specification
 Temperature Rating:
 - 20 ~ +105 °C

AMP Universal Power Connector consists of the following components:



Tab and Receptacle Contacts
 Free-Hanging Type Cap Housing
 Panel-Mount Type Cap Housing
 Plug Housing
 Board-Mount Post Header
 (The drawing above shows the composition of a typical free-hanging connector)