


AMP Power Series 175 Connectors (2-Pole Battery)

Product Facts

- Color-coded UL 94V-0 housings: yellow, orange, red, gray, blue, and black
- Keying feature helps prevent two different voltage color-coded housings from mating
- Genderless housings reduce inventory
- Contact wire range: 1/0, 1, 2, 4 AWG
- Integral stainless steel locking spring in housing for contact retention
- Reducing bushings down to 10 gauge
- File No. E28476 c  us

Material and Finish

Housing—Polycarbonate, UL 94V-0
Retaining Spring—Stainless Steel
Contacts—Copper with silver plating
Reducing Bushings—Copper with silver plating

Electrical Characteristics

Current Carrying Capability—175 amp @ 80.42 F [26.9°C] T-Rise with 1/0 AWG wire
Voltage Rating—600 V (both AC and DC)
Dielectric Withstanding Voltage—2200 VDC
Avg. Initial Contact Resistance—100 micro-ohms

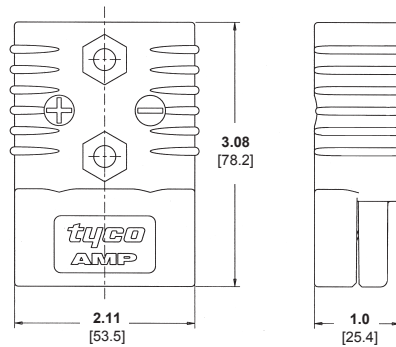
Mechanical Characteristics

Average Mating/Unmating Force—25 lbs. [111.21 N]
Max. Wire Insulation Diameter—.750 [19.05]
Wire Size Range—1/0, 1, 2, 4 AWG [53, 40, 35, 21 mm²]
Contact Retention—300 lbs. [1,334.47 N]
Temperature Rating—-4°F to 221°F [-20°C to 105°C]

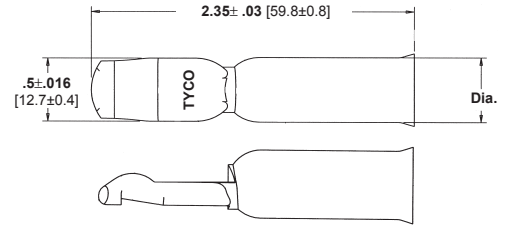
Related Product Data

Accessories—page 15
Application Tooling—page 16
Technical Documents—page 26

2-Pole Housing



Cold-headed Contact



Inside Diameter .516±.005 [13.1±0.13] for 1/0 AWG
 .512±.005 [13.0±0.13] for 1 AWG, 2 AWG, and 4 AWG

Series 175 (2-Pole)

Housing		Connector Kit Part Numbers ^{1,2}			
Color	Part Number	4 AWG	2 AWG	1 AWG	1/0 AWG
Yellow	1604037-1	1604044-1	1604043-1	1604045-1	1604042-1
Orange	1604037-2	1604044-2	1604043-2	1604045-2	1604042-2
Red	1604037-3	1604044-3	1604043-3	1604045-3	1604042-3
Gray	1604037-4	1604044-4	1604043-4	1604045-4	1604042-4
Blue	1604037-5	1604044-5	1604043-5	1604045-5	1604042-5
Black ³	1604037-6	1604044-6	1604043-6	1604045-6	1604042-6

¹ 1 Housing and 2 contacts.
² Housings and contacts are bulk packaged.
³ Black housing mates with any other housing.

Contacts (Cold-headed)

Wire Size	Part Number
4 AWG	1604040-1
2 AWG	1604039-1
1 AWG	1604041-1
1/0 AWG	1604038-1

Voltage Key Color Chart

Housing Color	Voltage
Yellow	12 V
Orange	18 V
Red	24 V
Gray	36 V
Blue	48 V
Black	80 V

Color code given for various voltages is only a suggestion, other codes and keys available upon request.