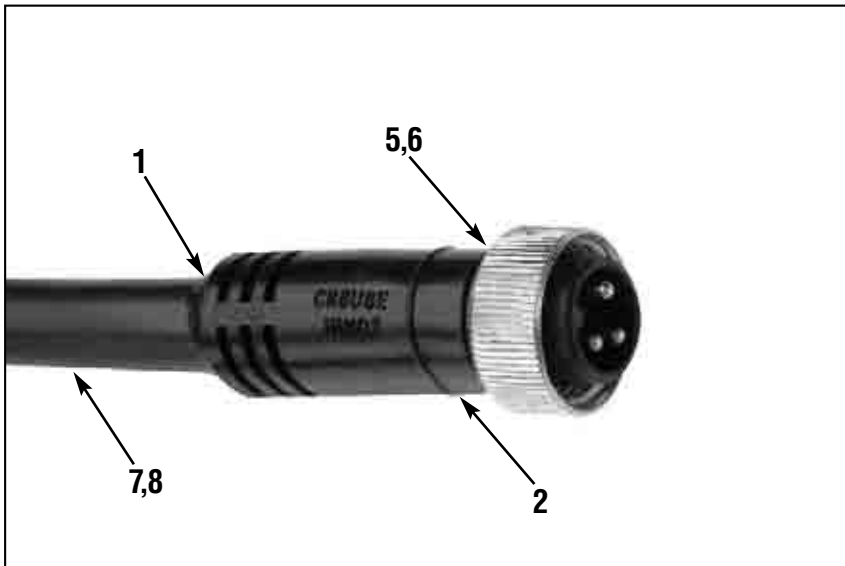


SUREMATE CONNECTORS

**“THE
TOUGH LINE
FOR TOUGH
JOBS”**

Crouse-Hinds Suremate connectors are designed to provide dependable and economical service. They are molded of high-quality thermoplastic allowing a high power-to-size ratio, lightweight connector. The one-piece molded-to-cable design and double-face seal are unaffected by water, coolants or condensation.

Safe, two-way polarization thru an eccentric pin pattern and keyway guard against mismating. In addition, keyways for the 2, 3 and 4 pole connectors are different from each other. Suremate connectors for 2, 3 and 4 pole configurations are available in various lengths to suit specific application needs.



FEATURES & BENEFITS

- 1 **Connector-to-cable molded junction** securely bonds for excellent reliability.
- 2 **Indicating arrow** for easy identification and proper keyway alignment.
- 3 **Superior female contact** design with steel sleeve to maintain contact withdrawal force.
- 4 **Gold plated female contact** for superior conductivity and chemical resistance.
- 5 **Vibration-resistant ratchet coupler** design prevents loosening in sever, high-vibration applications.
- 6 **Epoxy-coated coupler** that passes 1000-hour salt-spray test per MIL-STD-202F for exceptional corrosion resistance.
- 7 **Easy stripping PVC jacketed cable** with “fillerless” design allows fast stripping with simple hand tools.
Cable options available for industrial applications with the following types:
 - **STOOW cable** with PVC jacket having oil resistant jacket and conductors
 - **SEOW “TPE” cable** with oil resistant jacket/conductors having elastomer jacket.
- 8 **Optional #12 AWG cable** available for increased ampacity rating up to 25 amps.
- 9 Every unit is **100% electrically tested** using state of the art automated test equipment.

SPECIFICATIONS SURE-MATE PLUGS (2-4 POLE)

- Male and Female Plugs
- 14 AWG Standard Color Code
- 600V STOOW Cable
- Black PVC Molding
- Epoxy Coated Zinc Diecast Hardware
- Vibration Resistant Ratchet Design



TECHNICAL DATA

Agency Approvals



File #E169897

Electrical Data

Contact Resistance: $\leq 5m\Omega$
Current Rating: See chart with part number detail
Voltage Rating: 600 VAC
Dielectric Withstand Voltage: 2200 VAC

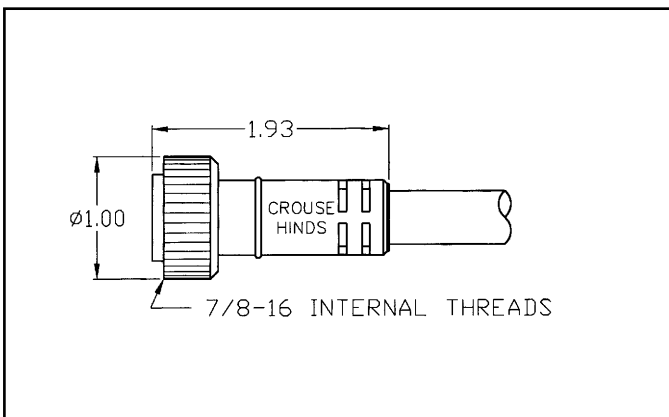
Environmental Data

Protection: NEMA 1, 3, 4, 6P and 13; IEC IP 68
Temperature Range: -20°C to $+105^{\circ}\text{C}$
Corrosion Resistance: 1000 hr. salt spray per MIL-STD-202F



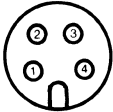
Material Data

Body: Black, PVC
Cable: Black, STOOW
Contacts: Machined Brass
Female Contact Plating: Gold plating
Coupling Nut: Diecast Zamak 5 with black epoxy coat

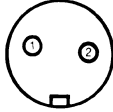

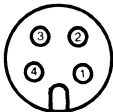
DIMENSIONS



SURE-MATE FEMALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT
2		1. White 2. Black	600V, 18A	14	6' 12'	5000101-17 5000101-18
3		1. Green 2. Black 3. White	600V, 18A	14	6' 12'	5000102-17 5000102-18
4		1. Black 2. White 3. Red 4. Green	600V, 15A	14	6' 12'	5000104-17 5000104-18

SURE-MATE MALE PLUG WITH EPOXY COATED ZINC DIECAST COUPLING NUT

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	CABLE LENGTH	STRAIGHT
2		1. White 2. Black	600V, 18A	14	6' 12'	5000101-19 5000101-20
3		1. Green 2. Black 3. White	600V, 18A	14	6' 12'	5000102-19 5000102-20
4		1. Black 2. White 3. Red 4. Green	600V, 15A	14	6' 12'	5000104-19 5000104-20

Note: Special lengths available upon request — consult factory.
 Nylon and stainless steel hardware available upon request — consult factory.
 SEOW cable available upon request — consult factory.
 Optional 12 AWG available upon request — consult factory.

SPECIFICATIONS SURE-MATE RECEPTACLES (2-4 POLE)

- Male and Female Receptacles
- 14 AWG Standard Color Code
- Single Conductor PVC Jacket
- Zinc Diecast Hardware



TECHNICAL DATA

Agency Approvals



File #E169897

Electrical Data

Contact Resistance:	$\leq 5m\Omega$
Current Rating:	See chart with part number detail
Voltage Rating:	600 VAC
Dielectric Withstand Voltage:	2200 VAC

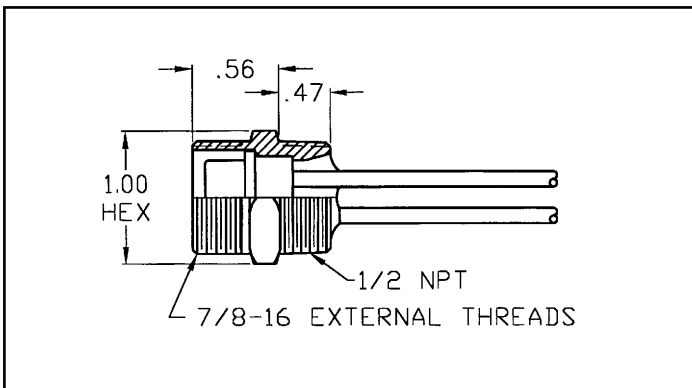
Environmental Data

Protection:	NEMA 1, 3, 4, 6P and 13; IEC IP 68
Temperature Range:	-20°C to +105°C
Corrosion Resistance:	1000 hr. salt spray per MIL-STD-202F



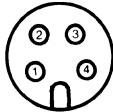
Material Data

Insert:	Black, santoprene
Pigtail Leads:	MTW PVC jacket
Contacts:	Machined Brass
Female Contact Plating:	Gold plating
Receptacle Shell:	Diecast Zamak 5 with zinc plate

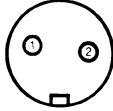

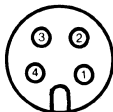
DIMENSIONS



SURE-MATE FEMALE RECEPTACLES WITH **ZINC DIECAST** RECEPTACLE SHELL

POLES	FACE VIEW FEMALE	COLOR CODE	RATING	AWG	LEAD LENGTH	PART NUMBER
2		1. White 2. Black	600V, 18A	14	10"	5000101-21
3		1. Green 2. Black 3. White	600V, 18A	14	10"	5000102-21
4		1. Black 2. White 3. Red 4. Green	300V, 15A	14	10"	5000104-21

SURE-MATE MALE RECEPTACLES WITH **ZINC DIECAST** RECEPTACLE SHELL

POLES	FACE VIEW MALE	COLOR CODE	RATING	AWG	LEAD LENGTH	PART NUMBER
2		1. White 2. Black	600V, 18A	14	10"	5000101-22
3		1. Green 2. Black 3. White	600V, 18A	14	10"	5000102-22
4		1. Black 2. White 3. Red 4. Green	300V, 15A	14	10"	5000104-22

Note: Special lead lengths available upon request — consult factory.
 Nylon and stainless steel hardware available upon request — consult factory.
 Optional 12 AWG available upon request — consult factory.

