

## Circular Plug Housing Connector

120-1867-000

**Description:** The Sure-Seal Connector series features a compact, rugged design with multiple moisture seals, making it ideal for outdoor applications where contaminants pose a risk. Originally developed to meet Department of Transportation (DOT) safety standards for automotive connectors, Sure-Seal connectors are perfect for demanding environments requiring a cost-effective, easy-to-install solution. These sealed connectors exceed DOT standards in shock, vibration, temperature cycling, salt spray, immersion, petroleum resistance, and exposure to industrial gases, all while maintaining low milli-volt drop and minimal contact resistance.



|                                        |                                                                                                              |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Series</b>                          | Sure-Seal                                                                                                    |
| <b>Connector Type</b>                  | Plug Housing                                                                                                 |
| <b>Number of Positions</b>             | 9                                                                                                            |
| <b>Contact Type</b>                    | Crimp                                                                                                        |
| <b>Contact Size</b>                    | 14-18 AWG                                                                                                    |
| <b>Current Rating</b>                  | 15 Amps                                                                                                      |
| <b>Contact Retention</b>               | 7.5 lbs (35 N) Minimum                                                                                       |
| <b>Mounting Type</b>                   | Free Hanging (In-Line)                                                                                       |
| <b>Fastening Type</b>                  | Push-Pull                                                                                                    |
| <b>Orientation</b>                     | Stepped plane positive polarization, indexing ribs, and visual polarization all permanently molded into body |
| <b>Primary Material</b>                | PVC Nitrile                                                                                                  |
| <b>Housing Color</b>                   | Black                                                                                                        |
| <b>Shielding</b>                       | Unshielded                                                                                                   |
| <b>Contact Shape</b>                   | Circular                                                                                                     |
| <b>Operating Voltage</b>               | 400 Vac Maximum                                                                                              |
| <b>Dielectric withstanding voltage</b> | 1200 Vac at sea level                                                                                        |
| <b>Contact Resistance</b>              | 10 Milliohms                                                                                                 |
| <b>Insulation Resistance</b>           | 100 Megohms minimum                                                                                          |
| <b>Operating Temperature</b>           | -40°C ~ 105°C                                                                                                |
| <b>Ingress Protection</b>              | IP67, DIN 400 50, 3 foot depth in 5% salt solution 24 hours minimum, NEMA 6 p                                |
| <b>Mating Life</b>                     | 50 cycles minimum (stamped & formed) 100 cycles (machined)                                                   |
| <b>Salt Spray</b>                      | to Mil-STD-202D Method 101D                                                                                  |
| <b>Heat</b>                            | .+221F (115 C) for 1000 hours                                                                                |
| <b>Weather, Ozone, Ultraviolet</b>     | ASTM D-1149 (100pphm) & ASTM D-1171 (outdoor exposure)                                                       |

# PRODUCT SPECIFICATIONS



|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| <b>Vibration</b>      | 5 to 55 Hz .06" DA 1 hour; radial & longitudinal axes |
| <b>Shock</b>          | 50g 11ms, 30 cycles; radial & longitudinal axes       |
| <b>Agency Listing</b> | UL (E176866) & CSA (LR109871-1)                       |
| <b>Note</b>           | Contacts Not Included                                 |
| <b>Warranty</b>       | 1 Year                                                |
| <b>Mates With</b>     | 120-1868-000                                          |