

# D-Sub Grounding Connector

**molex**

Molex D-Sub Grounding Connectors provide potential equalization when they are mated, eliminating the need for a screw or clamp, and safety caps provide waterproof protection even when unmated

## Features and Benefits

**High-power contact (40.0A) connected to ground cable (8 AWG) with straight termination**

Meets performance requirements for high-powered equipment

**PE labeling on plug**  
Warns of voltage risk to promote safety

**Supplied with two hexagonal bolts**  
Enables mounting on housing

**Metal sealing frame for rear installation**  
Ensures EMI shielding. Saves space as no need extra frame needed

**Protective cap with chain for plug; optional for mating connector**  
Prevents water and dust ingress. Protects operator from contact with high current when unmated. Chain eliminates risk of cap getting lost

**IP66 and IP67 ratings**  
Prevents water and dust ingress. Protects connector in harsh environments

## Applications

### Industrial Automation

Applications exposed to water spray

### Telecommunications

Communication towers

Remote radio heads

### Data/Computing

Mobile applications



Communication Tower Shrouded in Mist



Industrial Automation Applications

# D-Sub Grounding Connector



## Specifications

### REFERENCE INFORMATION

Packaging: Bag  
UL File No.: TBD  
CSA File No.: TBD  
Mates With: F1W1P-K120  
Terminal Used: High-Powered Contact FMP400S103  
Designed In: Millimeters  
RoHS: TBD  
Halogen Free: TBD  
Glow Wire Compliant: TBD

### ELECTRICAL

Voltage (max.): (Depends on application)  
Current (max.): 40.0A  
Contact Resistance:  $\leq 1$  milliohms (initial)  
Dielectric Withstanding Voltage: 1000V  
Insulation Resistance:  $\geq 5000$  Megohms

### MECHANICAL

Durability (min.): 500 cycles

### PHYSICAL

Housing: Plastic, with Tin-Plated Brass Front  
Plating:  
Contact Area — 0.8 $\mu$ m Gold  
Solder Tail Area — 0.2 $\mu$ m Gold  
Operating Temperature: -25 to +70°C

## Ordering Information

Custom Product	Component
<a href="#">Contact Molex</a>	Cable Assembly with D-Sub Grounding Plug and Waterproof Cap
	D-Sub Grounded Socket with Waterproof Hood