



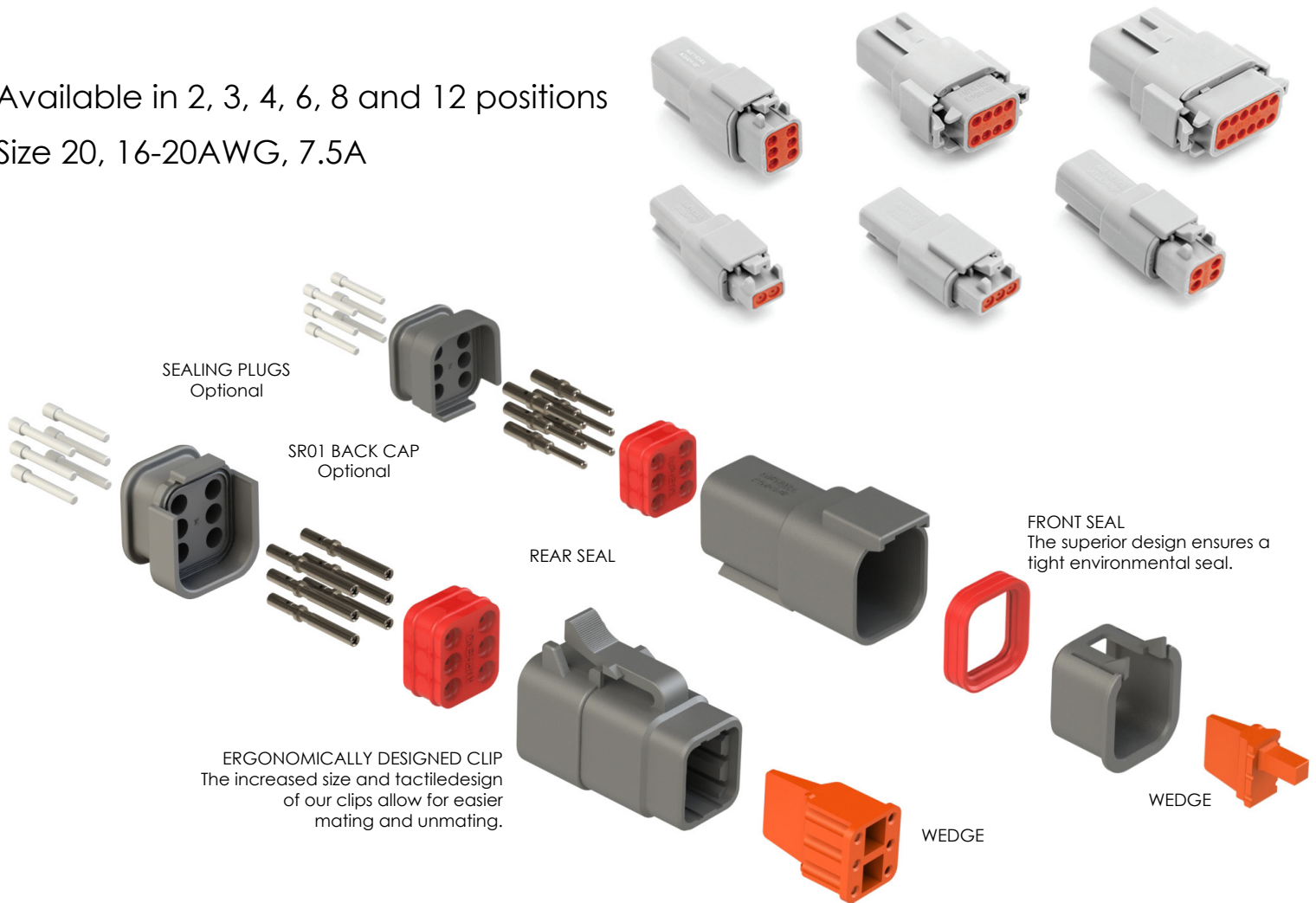
ATM v DTM

ATM Series™ connectors are a high-performance, cost-effective solution specifically designed for smaller AWG applications, while still maintaining the strengths of the AT Series™ product line.

The connector design incorporates an integral latching system that ensures a definitive electrical and mechanical connection. Connector housings are manufactured with a thermoplastic material that is not only durable, but has excellent UV resistance, dielectric/mechanical properties and environmentally RoHS compliant. The sealing system is comprised of an internal and rear silicone, multi-sealing perimeter against environmental ingress. Contacts are derived from quality copper alloy to ensure an electrically-reliable connection. ATM Series™ connectors are compatible with other existing standard products industry-wide.

Available in 2, 3, 4, 6, 8 and 12 positions

Size 20, 16-20AWG, 7.5A



Standard products. Custom solutions
Customer Service +1 800 394 7732

ATM Series

DTM Series

| Material Specifications | | | | | Material Specifications | | | | |
|--|----------------------------------|---|-------------------|-----------------------------|--|----------------------------------|---|-------------------|-----------------------------|
| Plug/Receptacle | | Contacts | | | Plug/Receptacle | | Contacts | | |
| Shell: Thermoplastic | | Pin: Copper Alloy | | | Shell: Thermoplastic | | Pin: Copper Alloy | | |
| Wedge: Thermoplastic | | Socket: Copper Alloy | | | Wedge: Thermoplastic | | Socket: Copper Alloy | | |
| Grommet: Silicone Rubber | | Finish: Nickel-plated (optional Gold) | | | Grommet: Silicone Rubber | | Finish: Nickel-plated (optional Gold) | | |
| Sealing Plugs | | | | | Sealing Plugs | | | | |
| Thermoplastic: All Sizes | | | | | Thermoplastic: All Sizes | | | | |
| General Specifications | | | | | General Specifications | | | | |
| Dielectric Withstanding Voltage | | Insulation Resistance | | | Dielectric Withstanding Voltage | | Insulation Resistance | | |
| Current leak less than 2 milliamps at 1500 VAC | | 1000 megohms minimum 25°C | | | Current leak less than 2 milliamps at 1500 VAC | | 1000 megohms minimum 25°C | | |
| Current Ratings (Contact current rating at 125°C continuous) | | | | | Current Ratings (Contact current rating at 125°C continuous) | | | | |
| Size 20: 7.5A | | | | | Size 20: 7.5A | | | | |
| Submersion | | Fluid Resistance | | | Submersion | | Fluid Resistance | | |
| Wired and mated connection will withstand immersion under three feet of water without loss of electronic qualities or leakage. | | Connectors show no damage when exposed to most fluids used in industrial application. | | | Wired and mated connection will withstand immersion under three feet of water without loss of electronic qualities or leakage. | | Connectors show no damage when exposed to most fluids used in industrial application. | | |
| Vibration | | Temperature | | | Vibration | | Temperature | | |
| No unlocking or unmating. Exhibits no mechanical or physical damage after sinusoidal vibration levels of 20G's at 10 to 2000 Hz in each of the three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond. | | Operative at temperatures from -55°C to +125°C. Continuous at rated current. | | | No unlocking or unmating. Exhibits no mechanical or physical damage after sinusoidal vibration levels of 20G's at 10 to 2000 Hz in each of the three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond. | | Operative at temperatures from -55°C to +125°C. Continuous at rated current. | | |
| Contact Retention (Contacts withstand a minimum load of:) | | | | | Contact Retention (Contacts withstand a minimum load of:) | | | | |
| 20lbs. (89N) for Size 20 | | | | | 20lbs. (89N) for Size 20 | | | | |
| Thermal Cycle | | Durability | | | Thermal Cycle | | Durability | | |
| No cracking, chipping or leaking after 20 test cycles from -55°C to +125°C. | | No electrical or mechanical defects after 100 cycles of engagement and disengagement. | | | No cracking, chipping or leaking after 20 test cycles from -55°C to +125°C. | | No electrical or mechanical defects after 100 cycles of engagement and disengagement. | | |
| Contact Resistance | | | | | Contact Resistance | | | | |
| Contact Size | AWG(mm ²) | Test Current (Amps) | Resistance Solids | Resistance Stamped & Formed | Contact Size | AWG(mm ²) | Test Current (Amps) | Resistance Solids | Resistance Stamped & Formed |
| 20 | 20 (.50) | 7.5 | 60 | 100 | 20 | 20 (.50) | 7.5 | 60 | 100 |
| Wire Sealing Range | | | | | Wire Sealing Range | | | | |
| Contact Size | Recommended Wire Insulation O.D. | | | | Contact Size | Recommended Wire Insulation O.D. | | | |
| | N-Seal | | | | | N-Seal | | | |
| 20 | .053 - .120 (1.35 - 3.05) | | | | 20 | .053 - .120 (1.35 - 3.05) | | | |



CUSTOM COLORS AVAILABLE

Depending on your needs, we are able to produce your parts in a range of colors giving you complete control over your project.

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