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
## ATM Series

<table>
<thead>
<tr>
<th>Material Specifications</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Plug/Receptacle</td>
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</tr>
<tr>
<td>Contacts</td>
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</tr>
<tr>
<td>Shell: Thermoplastic</td>
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</tr>
<tr>
<td>Pin: Copper Alloy</td>
<td>Pin: Copper Alloy</td>
</tr>
<tr>
<td>Wedge: Thermoplastic</td>
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</tr>
<tr>
<td>Socket: Copper Alloy</td>
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</tr>
<tr>
<td>Grommet: Silicone Rubber</td>
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</tr>
<tr>
<td>Finish: Nickel-plated</td>
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</tr>
<tr>
<td>(optional Gold)</td>
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</tr>
</tbody>
</table>

### Sealing Plugs

- Thermoplastic: All Sizes

### General Specifications

- Dielectric Withstanding Voltage
- Insulation Resistance
- Current leak less than 2 milliamps at 1500 VAC
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- Current Ratings (Contact current rating at 125°C continuous)
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- Size 20: 7.5A
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### Submersion

- Fluid Resistance
- Submersion
- Wired and mated connection will withstand immersion under three feet of water without loss of electronic qualities or leakage.
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- Connectors show no damage when exposed to most fluids used in industrial application.
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### Vibration

- Temperature
- Vibration
- Operative at temperatures from -55°C to +125°C. Continuous at rated current.
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### Contact Retention

- (Contacts withstand a minimum load of:)
- 20lbs. (89N) for Size 20
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### Thermal Cycle

- Test Current
- 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.

### Contact Resistance

<table>
<thead>
<tr>
<th>Contact Size</th>
<th>AWG(mm²)</th>
<th>Test Current (Amps)</th>
<th>Resistance Solids</th>
<th>Resistance Stamped &amp; Formed</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>20 (.50)</td>
<td>7.5</td>
<td>60</td>
<td>100</td>
</tr>
</tbody>
</table>

### Wire Sealing Range

<table>
<thead>
<tr>
<th>Contact Size</th>
<th>Recommended Wire Insulation O.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>N-Seal (.053 -.120 (1.35 - 3.05))</td>
</tr>
</tbody>
</table>

### 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.