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# Connection Cables X-Coded Data

## Industrial Ethernet Shielded M12 X-Coded Cables

### Features

- High flex industrial Ethernet shielded Cat6a cables
- Resistant to welding sparks
- Flame retardant, chemical resistant
- TPE (thermoplastic elastomer) jacket for typical industrial applications

### Ethernet Shielded M12 X-coded Cables

| Part Number                        | Price    | Poles/<br>Pins | Connectors                             | Jacket                            |       | Length<br>m [ft] | Drawing<br>Link     |  |
|------------------------------------|----------|----------------|--|-----------------------------------|-------|------------------|---------------------|--|
|                                    |          |                |  | Material                          | Color |                  |                     |  |
| <a href="#">7700-51101-S4X0100</a> | \$66.00  | 8              | Male straight M12 to straight RJ45     | TPE<br>Thermoplastic<br>Elastomer | Teal  | 1.0 [3.2]        | <a href="#">PDF</a> |  |
| <a href="#">7700-51101-S4X0300</a> | \$84.00  |                |  |                                   |       | 3.0 [9.8]        | <a href="#">PDF</a> |  |
| <a href="#">7700-51101-S4X0500</a> | \$103.00 |                |  |                                   |       | 5.0 [16.4]       | <a href="#">PDF</a> |  |
| <a href="#">7700-51201-S4X0100</a> | \$72.00  |                | Male 90-degree M12 to straight<br>RJ45 |                                   |       | 1.0 [3.2]        | <a href="#">PDF</a> |  |
| <a href="#">7700-51201-S4X0300</a> | \$91.00  |                |  |                                   |       | 3.0 [9.8]        | <a href="#">PDF</a> |  |
| <a href="#">7700-51201-S4X0500</a> | \$109.00 |                |  |                                   |       | 5.0 [16.4]       | <a href="#">PDF</a> |  |



7700-51101 Series



7700-51201 Series

### Specifications

|                            |   |  |   |
|----------------------------|---|--|---|
| <b>Nominal Voltage</b>     | 60VDC<br>UL rated: 30VDC                      | <b>Locking Material</b>  | Zinc die casting, matte nickel plated                                       |
| <b>Max Current</b>         | 0.5 A   | <b>Protection Degree</b>   | M12: IP66K/67 ; RJ45: IP20  |
| <b>Rated Surge Voltage</b> | 1.0 kV  | <b>Outer Ø</b>   | 7.4 mm [0.29 in] ±5%  |
| <b>Transfer Parameters</b> | Cat6a, Class EA (ISO/IEC 11801)               | <b>Bend Radius</b>   | 10 x outer Ø*   |
| <b>Transfer Rate</b>       | Up to 10Gbps full duplex                      | <b>Temperature Range</b>   | Cable: -40 to +80°C [-40 to +176°F]<br>Connector: -25 to 85°C [13 to 185°F] |
| <b>Connection</b>          | Connector 1: M12 X-coded<br>Connector 2: RJ45 | <b>Wire Material</b>   | Copper wire, tin plated   |
|                            |   | <b>Approvals</b>   | cULus File E362618  |
| <b>Tightening Torque</b>   | 0.6 N·m                                       | To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page. |   |

\*For a linear flex application with a bend radius of 10x of the outside diameter of the cable, you can expect a life of 1 million cycles.  
For a linear flex application with a bend radius of 20x of the outside diameter of the cable, you can expect a life of 10 million cycles.