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# Connection Cables - Data

## Industrial Ethernet Shielded M12 D-coded Cables

### Features

- High flex industrial Ethernet shielded Cat5e cables
- Resistant to welding sparks
- Flame retardant, chemical resistant
- TPE (thermoplastic elastomer) wire insulation for applications requiring high flexibility
- HDPE (High Density Polyethylene) wire insulation for excellent insulation properties and abrasion resistance

| Ethernet Shielded M12 D-coded Cables |         |                 |                                    |                                                                  |              |                  |                     |                     |
|--------------------------------------|---------|-----------------|------------------------------------|------------------------------------------------------------------|--------------|------------------|---------------------|---------------------|
| Part Number                          | Price   | Number of Wires | Connectors                         | Cable Jacket/<br>Wire Insulation<br>Material                     | Jacket Color | Length<br>m [ft] | Drawing<br>Link     |                     |
| <a href="#">7700-44511-S4U0060</a>   | \$27.50 | 4               | Axial male to axial male           | Thermoplastic Elastomer (TPE) / High Density Polyethylene (HDPE) | Teal         | 0.6 [1.9]        | <a href="#">PDF</a> |                     |
| <a href="#">7700-44511-S4U0100</a>   | \$28.50 |                 |                                    |                                                                  |              | 1.0 [3.2]        | <a href="#">PDF</a> |                     |
| <a href="#">7700-44511-S4U0300</a>   | \$35.50 |                 |                                    |                                                                  |              | 3.0 [9.8]        | <a href="#">PDF</a> |                     |
| <a href="#">7700-44511-S4U0500</a>   | \$36.50 |                 |                                    |                                                                  |              | 5.0 [16.4]       | <a href="#">PDF</a> |                     |
| <a href="#">7700-44511-S4U0750</a>   | \$44.50 |                 |                                    |                                                                  |              | 7.5 [24.6]       | <a href="#">PDF</a> |                     |
| <a href="#">7700-44511-S4U1000</a>   | \$53.00 |                 |                                    |                                                                  |              | 10 [32.8]        | <a href="#">PDF</a> |                     |
| <a href="#">7700-44511-S4U1500</a>   | \$71.00 |                 |                                    |                                                                  |              | 15 [49.2]        | <a href="#">PDF</a> |                     |
| <a href="#">7700-44541-S4U0060</a>   | \$27.50 |                 | Axial male to 90-degree male       |                                                                  |              | 0.6 [1.9]        | <a href="#">PDF</a> |                     |
| <a href="#">7700-44541-S4U0100</a>   | \$28.50 |                 |                                    |                                                                  |              |                  | 1.0 [3.2]           | <a href="#">PDF</a> |
| <a href="#">7700-44541-S4U0300</a>   | \$37.50 |                 |                                    |                                                                  |              |                  | 3.0 [9.8]           | <a href="#">PDF</a> |
| <a href="#">7700-44541-S4U0500</a>   | \$39.00 |                 |                                    |                                                                  |              |                  | 5.0 [16.4]          | <a href="#">PDF</a> |
| <a href="#">7700-44541-S4U0750</a>   | \$46.50 |                 |                                    |                                                                  |              |                  | 7.5 [24.6]          | <a href="#">PDF</a> |
| <a href="#">7700-44541-S4U1000</a>   | \$56.00 |                 |                                    |                                                                  |              |                  | 10 [32.8]           | <a href="#">PDF</a> |
| <a href="#">7700-44541-S4U1500</a>   | \$76.00 |                 |                                    |                                                                  |              |                  | 15 [49.2]           | <a href="#">PDF</a> |
| <a href="#">7700-44711-S4U0060</a>   | \$26.50 |                 | Axial male to axial male RJ45      |                                                                  |              | 0.6 [1.9]        | <a href="#">PDF</a> |                     |
| <a href="#">7700-44711-S4U0100</a>   | \$27.50 |                 |                                    |                                                                  |              |                  | 1.0 [3.2]           | <a href="#">PDF</a> |
| <a href="#">7700-44711-S4U0300</a>   | \$32.50 |                 |                                    |                                                                  |              |                  | 3.0 [9.8]           | <a href="#">PDF</a> |
| <a href="#">7700-44711-S4U0500</a>   | \$36.50 |                 |                                    |                                                                  |              |                  | 5.0 [16.4]          | <a href="#">PDF</a> |
| <a href="#">7700-44711-S4U0750</a>   | \$46.50 |                 |                                    |                                                                  |              |                  | 7.5 [24.6]          | <a href="#">PDF</a> |
| <a href="#">7700-44711-S4U1000</a>   | \$55.00 |                 |                                    |                                                                  |              |                  | 10 [32.8]           | <a href="#">PDF</a> |
| <a href="#">7700-44711-S4U1500</a>   | \$76.00 |                 |                                    |                                                                  |              |                  | 15 [49.2]           | <a href="#">PDF</a> |
| <a href="#">7700-44761-S4U0060</a>   | \$26.50 |                 | 90-degree male to axial male RJ45  |                                                                  |              | 0.6 [1.9]        | <a href="#">PDF</a> |                     |
| <a href="#">7700-44761-S4U0100</a>   | \$28.00 |                 |                                    |                                                                  |              |                  | 1.0 [3.2]           | <a href="#">PDF</a> |
| <a href="#">7700-44761-S4U0300</a>   | \$33.50 |                 |                                    |                                                                  |              |                  | 3.0 [9.8]           | <a href="#">PDF</a> |
| <a href="#">7700-44761-S4U0500</a>   | \$38.00 |                 |                                    |                                                                  |              |                  | 5.0 [16.4]          | <a href="#">PDF</a> |
| <a href="#">7700-44761-S4U0750</a>   | \$46.50 |                 |                                    |                                                                  |              |                  | 7.5 [24.6]          | <a href="#">PDF</a> |
| <a href="#">7700-44761-S4U1000</a>   | \$53.00 |                 |                                    |                                                                  |              |                  | 10 [32.8]           | <a href="#">PDF</a> |
| <a href="#">7700-44761-S4U1500</a>   | \$71.00 |                 |                                    |                                                                  |              |                  | 15 [49.2]           | <a href="#">PDF</a> |
| <a href="#">7700-44851-S4U0050</a>   | \$26.50 |                 | Female bulkhead to axial male RJ45 |                                                                  |              | 0.5 [1.6]        | <a href="#">PDF</a> |                     |
| <a href="#">7700-44851-S4U0060</a>   | \$28.00 |                 |                                    |                                                                  |              |                  | 0.6 [1.9]           | <a href="#">PDF</a> |
| <a href="#">7700-44851-S4U0100</a>   | \$28.00 |                 |                                    |                                                                  |              |                  | 1.0 [3.2]           | <a href="#">PDF</a> |



7700-44511 series



7700-44541 series



7700-44711 series



7700-44851 series



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# Connection Cables - Data

## Industrial Ethernet M12 D-coded Shielded Cables

| Ethernet Shielded M12 D-coded Specifications |                                                                          |       |                       |       |                                                 |
|----------------------------------------------|--------------------------------------------------------------------------|-------|-----------------------|-------|-------------------------------------------------|
| Model                                        | 44511                                                                    | 44541 | 44711                 | 44761 | 44851                                           |
| Type                                         | (M12) 4-Wire, 5-Pole; (RJ45) 4-Wire, 8-Pin                               |       |                       |       |                                                 |
| Max Voltage                                  | 60VDC                                                                    |       |                       |       |                                                 |
| Max Voltage - UL Rating                      | 60VDC                                                                    | 30VDC |                       |       |                                                 |
| Max Current Per Contact                      | 4A (UL Rated to 1.5 A)                                                   | 4A    | 1.5 A                 |       |                                                 |
| Protection Degree                            | IP65 / IP66K / IP67                                                      |       | M12 IP67<br>RJ45 IP20 |       | M12 IP67,<br>Nema 3, 4, 6P (UL50E)<br>RJ45 IP20 |
| Nut Material                                 | Nickel plated die cast zinc                                              |       |                       |       |                                                 |
| Cable Jacket/Wire Insulation Material        | Thermoplastic Elastomer (TPE) /<br>High Density Polyethylene (HDPE)      |       |                       |       |                                                 |
| Contacts Material                            | Copper Alloy                                                             |       |                       |       |                                                 |
| Tightening Torque                            | ≤ 0.6 N·m [≤ 0.44 ft·lb]                                                 |       |                       |       |                                                 |
| Conductors Cross Section                     | 24/7 AWG                                                                 |       |                       |       |                                                 |
| Ø Outer Cable                                | 6.6 mm [0.26 in]                                                         |       |                       |       |                                                 |
| Min Bend Radius                              | Stationary use: 5 x cable diameter;<br>Flexible use: 10 x cable diameter |       |                       |       |                                                 |
| Cable Temperature Range                      | -40 to 80°C [-40 to 176°F]                                               |       |                       |       |                                                 |
| Channel Transmission Length                  | max 70m                                                                  |       |                       |       |                                                 |
| Data Transmission Standard                   | CAT5e ISO/IEC 11801 (Class D - 100 Mbit/s)                               |       |                       |       |                                                 |
| Approvals*                                   | cULus                                                                    |       |                       |       |                                                 |

\*To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.



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# Connection Cables - Data

## Industrial Ethernet Shielded RJ45 Cables

### Features

- High flex industrial Ethernet shielded Cat5e cables
- Resistant to welding sparks
- Flame retardant, chemical resistant
- TPE (thermoplastic elastomer) jacket for typical industrial applications
- HDPE (High Density Polyethylene) wire insulation for excellent insulation properties and abrasion resistance.



7700-74301 series

### Industrial Ethernet Shielded RJ45 Cables

| Part Number                        | Price   | Number of Wires | Connectors                         | Cable Jacket/<br>Wire Insulation<br>Material                        | Jacket Color | Length     | Drawing Link        |
|------------------------------------|---------|-----------------|------------------------------------|---------------------------------------------------------------------|--------------|------------|---------------------|
|                                    |         |                 |                                    |                                                                     |              | m [ft]     |                     |
| <a href="#">7700-74301-S4U0060</a> | \$19.00 | 4               | RJ45 axial male to RJ45 axial male | Thermoplastic Elastomer (TPE) /<br>High Density Polyethylene (HDPE) | Teal         | 0.6 [1.9]  | <a href="#">PDF</a> |
| <a href="#">7700-74301-S4U0100</a> | \$20.00 |                 |                                    |                                                                     |              | 1.0 [3.2]  | <a href="#">PDF</a> |
| <a href="#">7700-74301-S4U0300</a> | \$25.00 |                 |                                    |                                                                     |              | 3.0 [9.8]  | <a href="#">PDF</a> |
| <a href="#">7700-74301-S4U0500</a> | \$32.00 |                 |                                    |                                                                     |              | 5.0 [16.4] | <a href="#">PDF</a> |
| <a href="#">7700-74301-S4U0750</a> | \$40.50 |                 |                                    |                                                                     |              | 7.5 [24.6] | <a href="#">PDF</a> |
| <a href="#">7700-74301-S4U1000</a> | \$49.50 |                 |                                    |                                                                     |              | 10 [32.8]  | <a href="#">PDF</a> |
| <a href="#">7700-74301-S4U1500</a> | \$70.00 |                 |                                    |                                                                     |              | 15 [49.2]  | <a href="#">PDF</a> |

### Industrial Ethernet Shielded RJ45 Cables Specifications

|                                              |                                                                          |
|----------------------------------------------|--------------------------------------------------------------------------|
| <b>Model</b>                                 | <b>74301</b>                                                             |
| <b>Type</b>                                  | 4-Wire ,8-Pin                                                            |
| <b>Max Voltage</b>                           | 60VDC                                                                    |
| <b>Max Voltage UL Rating</b>                 | 30VDC                                                                    |
| <b>Max Current Per Contact</b>               | 1.5 A                                                                    |
| <b>Protection Degree</b>                     | IP20                                                                     |
| <b>Cable Jacket/Wire Insulation Material</b> | Thermoplastic Elastomer (TPE) /<br>High Density Polyethylene (HDPE)      |
| <b>Contacts Material</b>                     | Copper Alloy                                                             |
| <b>Conductor Cross Section</b>               | 24/7 AWG                                                                 |
| <b>Ø Outer Cable</b>                         | 6.6 mm [0.260 in]                                                        |
| <b>Min Bend Radius</b>                       | Stationary use: 5 x cable diameter;<br>Flexible use: 10 x cable diameter |
| <b>Cable Temperature Range</b>               | -40 to 80°C [-40 to 176°F]                                               |
| <b>Channel Transmission Length</b>           | max 70m                                                                  |
| <b>Data Transmission Standard</b>            | Cat5e (ISO/IEC 11801 (Class D - 100 MBit/s)                              |
| <b>Approvals**</b>                           | cULus                                                                    |

\*To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

# Connection Cables - Data

## Industrial Ethernet Shielded M12 D-coded to Pigtail Cables

### Features

- High flex industrial Ethernet shielded Cat5e cables
- Resistant to welding sparks
- Flame retardant, chemical resistant
- TPE (thermoplastic elastomer) jacket for typical industrial applications
- HDPE (High Density Polyethylene) wire insulation for excellent insulation properties and abrasion resistance



7700-14541-series

| Ethernet Shielded M12 D-coded to Pigtail Cables |         |                 |                       |                                                                  |              |            |                     |
|-------------------------------------------------|---------|-----------------|-----------------------|------------------------------------------------------------------|--------------|------------|---------------------|
| Part Number                                     | Price   | Number of Wires | Connector             | Cable Jacket/<br>Wire Insulation Material                        | Jacket Color | Length     | Drawing Link        |
|                                                 |         |                 |                       |                                                                  |              | m [ft]     |                     |
| <a href="#">7700-14541-S4U0060</a>              | \$18.00 | 4               | Axial male to pigtail | Thermoplastic Elastomer (TPE) / High Density Polyethylene (HDPE) | Teal         | 0.6 [1.9]  | <a href="#">PDF</a> |
| <a href="#">7700-14541-S4U0100</a>              | \$19.00 |                 |                       |                                                                  |              | 1.0 [3.2]  | <a href="#">PDF</a> |
| <a href="#">7700-14541-S4U0300</a>              | \$25.50 |                 |                       |                                                                  |              | 3.0 [9.8]  | <a href="#">PDF</a> |
| <a href="#">7700-14541-S4U0500</a>              | \$31.00 |                 |                       |                                                                  |              | 5.0 [16.4] | <a href="#">PDF</a> |
| <a href="#">7700-14541-S4U0750</a>              | \$39.00 |                 |                       |                                                                  |              | 7.5 [24.6] | <a href="#">PDF</a> |
| <a href="#">7700-14541-S4U1000</a>              | \$46.50 |                 |                       |                                                                  |              | 10 [32.8]  | <a href="#">PDF</a> |
| <a href="#">7700-14541-S4U1500</a>              | \$65.00 |                 |                       |                                                                  |              | 15 [49.2]  | <a href="#">PDF</a> |

| Ethernet Shielded M12 D-coded to Pigtail Cable Specifications |                                                                          |
|---------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>Model</b>                                                  | <b>14541</b>                                                             |
| <b>Type</b>                                                   | 4-Wire, 5-Pole                                                           |
| <b>Max Voltage</b>                                            | 60VDC                                                                    |
| <b>Max Voltage - UL Rating</b>                                | 30VDC                                                                    |
| <b>Max Current Per Contact</b>                                | 1.5 A                                                                    |
| <b>Protection Degree</b>                                      | IP65 / IP66K / IP67                                                      |
| <b>Cable Jacket/Wire Insulation Material</b>                  | Thermoplastic Elastomer (TPE) / High Density Polyethylene (HDPE)         |
| <b>Contacts Material</b>                                      | Copper Alloy                                                             |
| <b>Conductors Cross Section</b>                               | 0.25 mm <sup>2</sup> [24AWG]                                             |
| <b>Tightening Torque</b>                                      | ≤ 0.6 N·m [ ≤ 0.44 ft-lb]                                                |
| <b>Ø Outer Cable</b>                                          | ~ 6.6 mm [0.260 in]                                                      |
| <b>Min Bend Radius</b>                                        | Stationary use: 5 x cable diameter;<br>Flexible use: 10 x cable diameter |
| <b>Cable Temperature Range</b>                                | -40 to 80°C [-40 to 176°F]                                               |
| <b>Channel Transmission Length</b>                            | max 70m                                                                  |
| <b>Data Transmission Standard</b>                             | Cat5e, (ISO/IEC 11801), (Class D - 100 MBit/s)                           |
| <b>Approvals*</b>                                             | cULus                                                                    |

\*To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.



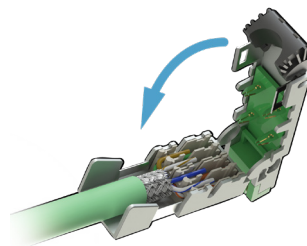
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# Field Wireable Connectors - Data

## Shielded RJ45 IDC Field Wireable Connectors

### Features

- Insulation displacement connector (IDC)
- Cat5, Cat5e, and Cat6 models available
- Available in axial, 45°, and 90° outlets



7000-74001-0000000



7000-74031-0000000



7000-74075-0000000



7000-74085-0000000

### Shielded RJ45 IDC Field Wireable Connectors

| Part Number                        | Price   | Wire Size    | Number of Wires | Connector Type      | Connection | Housing Material         | Drawing Link        |
|------------------------------------|---------|--------------|-----------------|---------------------|------------|--------------------------|---------------------|
| <a href="#">7000-74001-0000000</a> | \$20.00 | 26 to 22 AWG | 4               | RJ45 axial male     | Cat5       | Polyvinyl chloride (PVC) | <a href="#">PDF</a> |
| <a href="#">7000-74011-0000000</a> | \$23.00 |              | 8               |                     | Cat6       |                          | <a href="#">PDF</a> |
| <a href="#">7000-74021-0000000</a> | \$22.00 |              | 4               | RJ45 male 45-degree | Cat5       | Polyethylene (PE)        | <a href="#">PDF</a> |
| <a href="#">7000-74031-0000000</a> | \$25.00 |              | 8               |                     | Cat6       |                          | <a href="#">PDF</a> |
| <a href="#">7000-74075-0000000</a> | \$24.50 | 26 to 24 AWG | 8               | RJ45 axial male     | Cat5e      | Die-cast zinc            | <a href="#">PDF</a> |
| <a href="#">7000-74085-0000000</a> | \$26.50 |              |                 | RJ45 90-degree male | Cat5e      |                          | <a href="#">PDF</a> |

### Shielded RJ45 IDC Field Wireable Connectors Specifications

| Model                       | 74001, 74021                                     | 74011, 74031        | 74075, 74085                    |
|-----------------------------|--------------------------------------------------|---------------------|---------------------------------|
| Type                        | RJ45: 4-Wire, 4-Pin                              | RJ45: 8-Wire, 8-Pin | RJ45: 8-Wire, 8-Pin             |
| Maximum Voltage             | 60VDC                                            |                     | 50V                             |
| Maximum Current per Contact | 1.76 A                                           |                     | 1.75 A                          |
| Transmission Type           | Cat5                                             | Cat6                | Cat5e                           |
| Transfer Rate               | 10/100 Mbps                                      | 10 Gbit/s           | 1 Gbit/s                        |
| Bandwidth                   | 100 MHz                                          | 250 MHz             | 100 MHz                         |
| Temperature Range           | -40 to 70°C [-40 to 158°F]                       |                     |                                 |
| Protection Degree           | IP20                                             |                     |                                 |
| Wire Ø                      | max 1.6 mm                                       |                     |                                 |
| Outside Cable Ø             | 5 to 9mm (74001, 74011), 5 to 8mm (74021, 74031) |                     | 5 to 9 mm                       |
| Conductor Cross Section     | 0.14 to 0.34 mm² [26 to 22 AWG]                  |                     | 0.14 to 0.25 mm² [26 to 24 AWG] |
| Housing Material            | Polyvinyl chloride(PVC) / Polyethylene (PE)      |                     | Zinc die casting                |
| Contact Material            | —                                                |                     | Gold-plated                     |
| Approvals*                  | cURus                                            |                     | cULus                           |

\*To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

### Pin Assignments

74001,74021  
Industrial



74075,74085  
Ethernet, AWG 24 - 26



74011,74031  
568-A



Industrial



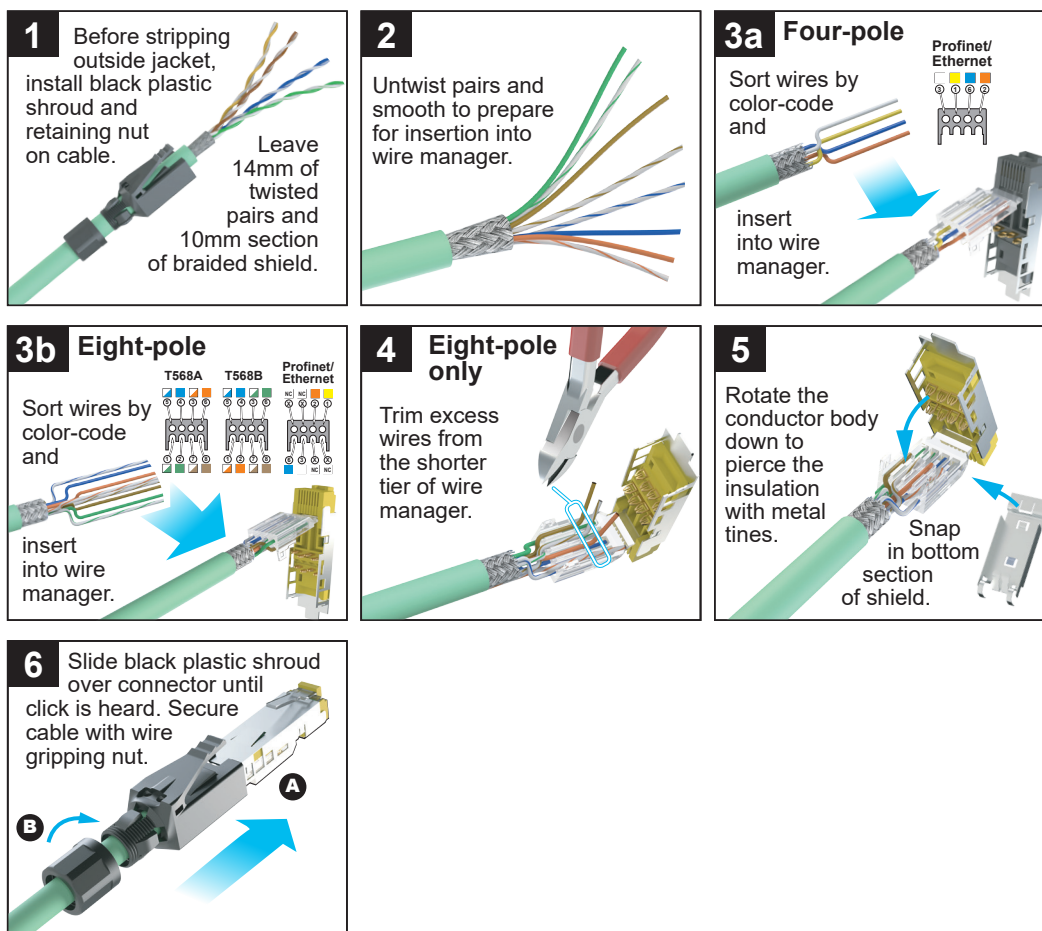


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# Field Wireable Connectors - Data

## Assembly Instructions

Part Numbers: 7000-74001-0000000, 7000-74011-0000000, 7000-74021-0000000, 7000-74031-0000000



Part Numbers: 7000-74075-0000000, 7000-74085-0000000

