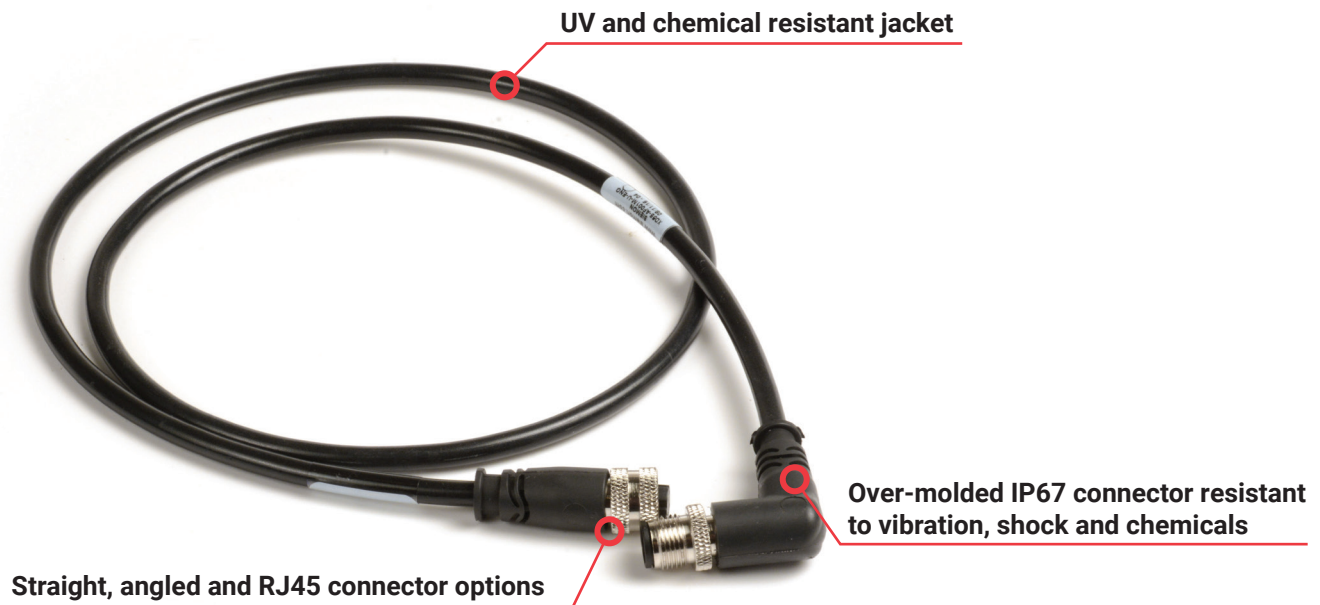


M12 D-Coded Cable Assemblies

Regional Availability - Global

Siemon's M12 D-Coded connector is an industry standard interface for Ethernet and PROFINET industrial networks and meets ANSI/TIA and ISO/IEC 11801 Ed 2.2 Category 5e specifications. Designed for use in industrial automation environments or other harsh environment applications where a compact, robust, reliable connection is needed. Siemon's M12 cable assemblies combine a specially designed Polyurethane (PUR) cable jacket with an overmolded connector to provide an IP67 rating. These robust cord-sets also provide protection from other common industrial elements including EMI, chemicals and mechanical stress.

Available with straight or angled connectors and RJ45 options, the M12 D-Coded cable assemblies are part of Siemon's wide selection of industrial Ethernet cord-sets which are able to satisfy most industrial switch, sensor and control applications.



M12 cable assemblies can be configured with a variety of connector types including RJ45, straight and angled.



Resistant to dust, vibration and shock, the M12 D-Code is ideal for any industrial networking environment.

Standards Compliance

- ANSI/TIA-568.2-E (Category 5e)
- ISO/IEC 11801 Ed 2.2 (Category 5e)
- UL 1863 and CSA-C22.2 No 182.4
- IEC61076-2-101



Data | Power | Reach | Delivered

Product Information

Performance Specifications

| Cable Attributes | PUR |
|--|-----------|
| Low Temperature Flexibility and Brittle Point | Excellent |
| Tear Resistance | Excellent |
| Abrasion and Scuff Resistance | Excellent |
| Tensile Strength and Toughness | Excellent |
| Ultraviolet and Weather Resistance | Good |
| Resistance to Acids | Fair |
| Resistance to Bases | Good |
| Resistance to Moisture | Excellent |
| Resistance to Ozone | Good |
| Resistance to Petro-Chemicals | Fair |
| Flame and Flame Resistance | Excellent |
| Zero Halogen | Yes |
| Flexibility and Flex Life | Excellent |
| RoHS Compliant and Lead Free | Yes |
| Dielectric strength and Electrical Performance | Fair |

Electrical

| | |
|-----------------------------------|--|
| Contact Resistance | 10 mΩ |
| Input to Output Resistance | Contact ≤ 200 mΩ |
| Min. Dielectric Withstand Voltage | 1.4k Volts contact to contact and shield |
| Insulation Resistance | 10 MΩ |

Ordering Information

Shielded Assembly, PUR Jacket, Black

XD5S (X) (X) (X) (XXX) (X) - U

| WIRING SCHEME | CONNECTOR SIDE A | CONNECTOR SIDE B | CORD LENGTH | UNIT OF MEASURE |
|---------------------------------------|---|---|--|------------------------|
| - = Straight Through X = Crossover | M = Straight Pinned F = Straight Unpinned A = Angled Pinned B = Pinned Bulkhead G = Unpinned Bulkhead | M = Straight Pinned F = Straight Unpinned A = Angled Pinned S = Straight RJ45 R = Right Angle RJ45 L = Left Angle RJ45 N = No Connector | Length must be 3 digits Example: 003 = 3m 010 = 10ft. | F = Feet M = Meters |

| Mechanical | |
|--------------------------------------|--|
| Operating Temperature | -10 to 75°C (14 to 167°F) |
| Flammability Rating | UL 94 V-0 |
| Green Features | RoHS, Lead Free, |
| RJ45 Plug Housing Material | Polycarbonate |
| Contact Materials | 30 Micro inches Gold Plating or equivalent |
| Shield | 360 Degree |
| Number of Plug Insertion Cycles | 100 |
| Cable Construction | SF/UTP |
| Cable Wire Size Range | 26 AWG 7/34 Stranded Tinned Copper |
| Cable to Plug Tensile Strength (min) | 89N (20 lbf) |

IP Rating Chart

Siemon's M12 D-Code cable assemblies are rated IP67.

| Solid Protection Against | | Liquid Protection Against | |
|--------------------------|--|---------------------------|---------------------------------|
| 0 | No Protection | 0 | No Protection |
| 1 | Solid objects greater than 50mm (1.96 in) | 1 | Water drops |
| 2 | Solid objects greater than 12.5mm (.49 in) | 2 | Water drops at 15° angle |
| 3 | Solid objects greater than 2.5mm (.09 in) | 3 | Water spray at 60° angle |
| 4 | Solid objects greater than 1mm (.03 in) | 4 | Water splash at any angle |
| 5 | Dust and particles | 5 | Water jets at any angle |
| 6 | Dust tight, no ingress of dust | 6 | Powerful jets and heavy seas |
| | | 7 | 30 minute submersion at 3 feet |
| | | 8 | Permanent submersion at 15 feet |

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.



SCAN TO DOWNLOAD SPEC SHEET

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