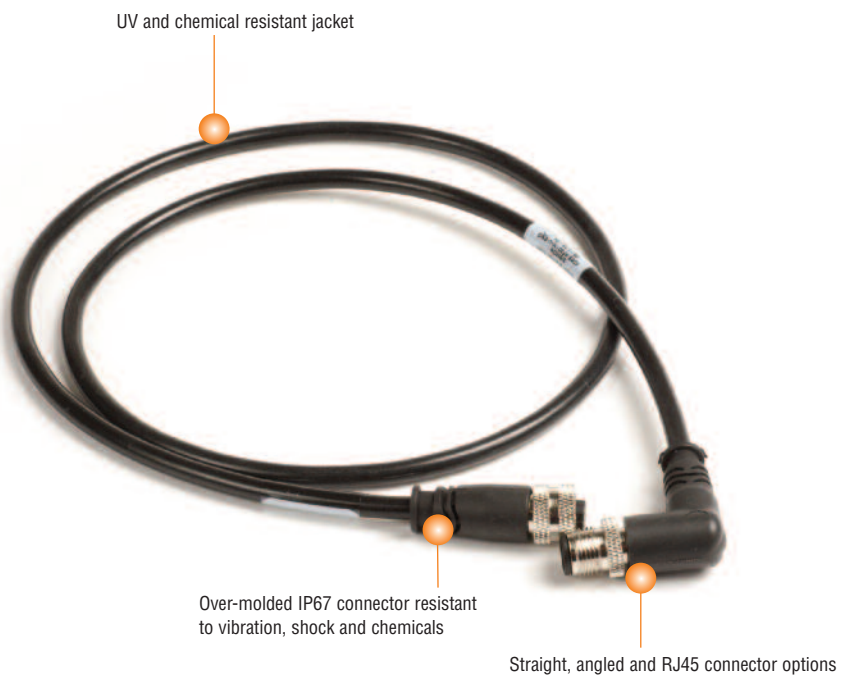


M12 D-Coded Cable Assemblies

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.



STANDARDS COMPLIANCE

- ANSI/TIA-568-C.2 Category 5e
- ISO/IEC 11801 Ed 2.2 Category 5e
- UL 1863 and CSA-C22.2 No. 182.4
- IEC61076-2-101



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

M12 D-Code

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 & shield
Insulation Resistance	10 MΩ
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 Microinches 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)

Ordering Information:

Shielded assembly,
XD5S(X)(X)(X)(XXX)(X)-U . . . PUR jacket, black

Wiring Scheme

Blank = Straight Through
X = Crossover

Connector Side A

M = Straight Male
F = Straight Female
A = Angled Male
B = Male Bulkhead
G = Female Bulkhead

Unit of Measure

F = Feet
M = Meters

Cord Length

Length must be 3 digits
Example: 003 = 3m
010 = 10ft.

Connector Side B

M = Straight Male
F = Straight Female
A = Angled Male
B = Male Bulkhead
G = Female Bulkhead
S = Straight RJ45
R = Right Angle RJ45
L = Left Angle RJ45
N = No Connector

IP RATING

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

IP Rating Chart			
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.

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