Stewart Connector

Industrial Cable Assemblies

M12 X-Code & RJ45



The cable assemblies are available in M12 X-Code male to M12 X-Code male, M12 X-Code male to an over molded RJ45 male plug, and RJ45 male to RJ45 male. M12 X-Code cable assemblies provide reliable connections with a high performance in industrial environments for Modbus, Ethernet, PROFINET and EtherCAT. These cable assemblies are made with TPE cable jacket to add to their robust nature.

Bel offers both Cat 5e and Cat 6a performance options that can deliver up to 10 gigabit Ethernet. These cable assemblies allow for quick and reliable connections in industrial environments.

The M12 X-Code to RJ45 plug jumper allows the M12 signal to transverse to the RJ plug and interface with a PC board inside a box. The length of this product can be customized to suit any need.

Features & Benefits

- Sun, oil and gas resistant TPE cable jacket
- IP67 rated M12 X-Code connectors
- Available in Cat 5e and Cat 6a performance speeds
- Multiple end configurations available
- Free end configuration available for customer specific termination requirements

Applications

- Industrial Automation
- Sensor and power applications
- Alternative energy solutions
- Communications
- Robotics

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Please read our datasheet & drawing disclaimer here.

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Industrial Cable Assemblies

Stewart Connector

Part Number Structure

BM - C B M M XXX F A

BM = Cable Assembly Family

Series
C = Coil Cord

Cable Type
B = Cat 5e, Teal TPU Cable

Connector End A
M = M12 X-Code Male Plug Assembled
R = Shielded, Over Molded RJ45 Male Plug with Latch Protector

Mandrel Diameter (in)
5 = $\frac{5}{8}$in (0.D 1.25in)

UOM
F = Feet
M = Meters

Length
001F = 1ft **003F** = 3ft
005F = 5ft **007F** = 7ft

Connector End B
M = M12 X-Code Male Plug Assembled
R = Shielded, Over Molded RJ45 Male Plug with Latch Protector

Coiled Cable Assemblies

Bel Part Number	Category	Connector End A	Connector End B	Lengths Available ft	m
BM-CBMR001F5	Cat 5e	M12 X-Code Male	Shielded, Over Molded RJ45	1ft	0.3m
BM-CBMR003F5	Cat 5e	M12 X-Code Male	Shielded, Over Molded RJ45	3ft	0.9m
BM-CBMR005F5	Cat 5e	M12 X-Code Male	Shielded, Over Molded RJ45	5ft	1.5m
BM-CBMR007F5	Cat 5e	M12 X-Code Male	Shielded, Over Molded RJ45	7ft	2.1m
BM-CBMM001F5	Cat 5e	M12 X-Code Male	M12 X-Code Male	1ft	0.3m
BM-CBMM003F5	Cat 5e	M12 X-Code Male	M12 X-Code Male	3ft	0.9m
BM-CBMM005F5	Cat 5e	M12 X-Code Male	M12 X-Code Male	5ft	1.5m
BM-CBMM007F5	Cat 5e	M12 X-Code Male	M12 X-Code Male	7ft	2.1m
BM-CBRR001F5	Cat 5e	Shielded, Over Molded RJ45	Shielded, Over Molded RJ45	1ft	0.3m
BM-CBRR003F5	Cat 5e	Shielded, Over Molded RJ45	Shielded, Over Molded RJ45	3ft	0.9m
BM-CBRR005F5	Cat 5e	Shielded, Over Molded RJ45	Shielded, Over Molded RJ45	5ft	1.5m
BM-CBRR007F5	Cat 5e	Shielded, Over Molded RJ45	Shielded, Over Molded RJ45	7ft	2.1m

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Industrial Cable Assemblies

Stewart Connector

Part Number Structure

BM - M A M M XXX F

BM = Cable Assembly Family

Series
M = M12 Series

Cable Type
A = Cat 6a, Teal SF/UTP TPE Cable
B = Cat 5e, Teal SF/UTP TPE Cable

Connector End A
M = M12 X-Code Male Plug Assembled
R = Shielded, Over Molded RJ45 Male Plug with Latch Protector

UOM
F = Feet
M = Meters

Length
001F = 1ft **003F** = 3ft **005F** = 5ft
007F = 7ft **010F** = 10ft **010M** = 1m
020M = 2m **030M** = 3m **050M** = 5m
100M = 10m

Connector End B
M = M12 X-Code Male Plug Assembled
R = Shielded, Over Molded RJ45 Male Plug with Latch Protector
D = Free End

Straight Cable Assemblies

Bel Part Number	Category	Connector End A	Connector End B	Lengths Available	
				ft	m
BM-MARM003F	Cat 6a	Shielded, Over Molded RJ45	M12 X-Code Male Plug	3ft	0.91m
BM-MARM005F	Cat 6a	Shielded, Over Molded RJ45	M12 X-Code Male Plug	5ft	1.52m
BM-MARM007F	Cat 6a	Shielded, Over Molded RJ45	M12 X-Code Male Plug	7ft	2.13m
BM-MARM010F	Cat 6a	Shielded, Over Molded RJ45	M12 X-Code Male Plug	10ft	3.04m
BM-MARM015F	Cat 6a	Shielded, Over Molded RJ45	M12 X-Code Male Plug	15ft	4.57m
BM-MARM030F	Cat 6a	Shielded, Over Molded RJ45	M12 X-Code Male Plug	30ft	9.14m
BM-MARM010M	Cat 6a	Shielded, Over Molded RJ45	M12 X-Code Male Plug	3.28ft	1m
BM-MARM020M	Cat 6a	Shielded, Over Molded RJ45	M12 X-Code Male Plug	6.56ft	2m
BM-MARM030M	Cat 6a	Shielded, Over Molded RJ45	M12 X-Code Male Plug	9.84ft	3m
BM-MARM050M	Cat 6a	Shielded, Over Molded RJ45	M12 X-Code Male Plug	16.40ft	5m
BM-MARM100M	Cat 6a	Shielded, Over Molded RJ45	M12 X-Code Male Plug	32.80ft	10m
BM-MBRM003F	Cat 5e	Shielded, Over Molded RJ45	M12 X-Code Male Plug	3ft	0.91m
BM-MBRM005F	Cat 5e	Shielded, Over Molded RJ45	M12 X-Code Male Plug	5ft	1.52m
BM-MBRM007F	Cat 5e	Shielded, Over Molded RJ45	M12 X-Code Male Plug	7ft	2.13m

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Straight Cable Assemblies (Continued)

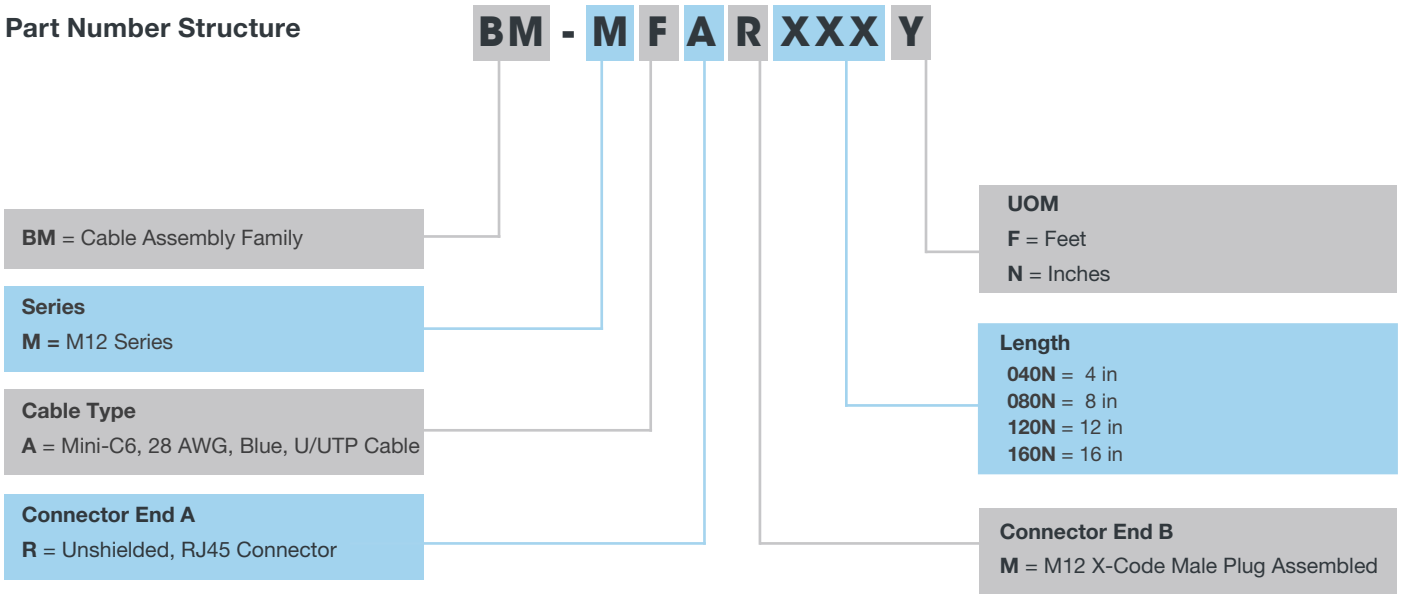
Bel Part Number	Category	Connector End A	Connector End B	Lengths Available	
				ft	m
BM-MBRM010F	Cat 5e	Shielded, Over Molded RJ45	M12 X-Code Male Plug	10ft	3.04m
BM-MBRM010M	Cat 5e	Shielded, Over molded RJ45	M12 X-Code Male Plug	3.28ft	1m
BM-MBRM020M	Cat 5e	Shielded, Over Molded RJ45	M12 X-Code Male Plug	6.56ft	2m
BM-MBRM030M	Cat 5e	Shielded, Over molded RJ45	M12 X-Code Male Plug	9.84ft	3m
BM-MBRM050M	Cat 5e	Shielded, Over Molded RJ45	M12 X-Code Male Plug	16.40ft	5m
BM-MBRM100M	Cat 5e	Shielded, Over molded RJ45	M12 X-Code Male Plug	32.80ft	10m
BM-MAMM003F	Cat 6a	M12 X-Code Male Plug	M12 X-Code Male Plug	3ft	0.91m
BM-MAMM005F	Cat 6a	M12 X-Code Male Plug	M12 X-Code Male Plug	5ft	1.52m
BM-MAMM007F	Cat 6a	M12 X-Code Male Plug	M12 X-Code Male Plug	7ft	2.13m
BM-MAMM010F	Cat 6a	M12 X-Code Male Plug	M12 X-Code Male Plug	10ft	3.04m
BM-MAMM015F	Cat 6a	M12 X-Code Male Plug	M12 X-Code Male Plug	15ft	4.57m
BM-MAMM030F	Cat 6a	M12 X-Code Male Plug	M12 X-Code Male Plug	30ft	9.14m
BM-MAMM010M	Cat 6a	M12 X-Code Male Plug	M12 X-Code Male Plug	3.28ft	1m
BM-MAMM020M	Cat 6a	M12 X-Code Male Plug	M12 X-Code Male Plug	6.56ft	2m
BM-MAMM030M	Cat 6a	M12 X-Code Male Plug	M12 X-Code Male Plug	9.84ft	3m
BM-MAMM050M	Cat 6a	M12 X-Code Male Plug	M12 X-Code Male Plug	16.40ft	5m
BM-MAMM100M	Cat 6a	M12 X-Code Male Plug	M12 X-Code Male Plug	32.80ft	10m
BM-MBMM003F	Cat 5e	M12 X-Code Male Plug	M12 X-Code Male Plug	3ft	0.91m
BM-MBMM005F	Cat 5e	M12 X-Code Male Plug	M12 X-Code Male Plug	5ft	1.52m
BM-MBMM007F	Cat 5e	M12 X-Code Male Plug	M12 X-Code Male Plug	7ft	2.13m
BM-MBMM010F	Cat 5e	M12 X-Code Male Plug	M12 X-Code Male Plug	10ft	3.04m
BM-MBMM010M	Cat 5e	M12 X-Code Male Plug	M12 X-Code Male Plug	3.28ft	1m
BM-MBMM020M	Cat 5e	M12 X-Code Male Plug	M12 X-Code Male Plug	6.56ft	2m
BM-MBMM030M	Cat 5e	M12 X-Code Male Plug	M12 X-Code Male Plug	9.84ft	3m
BM-MBMM050M	Cat 5e	M12 X-Code Male Plug	M12 X-Code Male Plug	16.40ft	5m
BM-MBMM100M	Cat 5e	M12 X-Code Male Plug	M12 X-Code Male Plug	32.80ft	10m
BM-MAMD010M	Cat 6a	M12 X-Code Male Plug	Free End	3.28ft	1m
BM-MAMD020M	Cat 6a	M12 X-Code Male Plug	Free End	6.56ft	2m
BM-MAMD050M	Cat 6a	M12 X-Code Male Plug	Free End	16.40ft	5m
BM-MAMD100M	Cat 6a	M12 X-Code Male Plug	Free End	32.8ft	10m

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Industrial Cable Assemblies

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Part Number Structure



Specialty Products

Bel Part Number	Category	Connector End A	Connector End B	Lengths Available In
BM-MFAR040N	Cat 6	Unshielded, RJ45	M12 X-Code, IP68 Vertical Panel Mount	4 in
BM-MFAR080N	Cat 6	Unshielded, RJ45	M12 X-Code, IP68 Vertical Panel Mount	8 in
BM-MFAR120N	Cat 6	Unshielded, RJ45	M12 X-Code, IP68 Vertical Panel Mount	12 in
BM-MFAR160N	Cat 6	Unshielded, RJ45	M12 X-Code, IP68 Vertical Panel Mount	16 in
BM-MFAR180N	Cat 6	Unshielded, RJ45	M12 X-Code, IP68 Vertical Panel Mount	18 in

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