M12 C-Coded Female to Female Right-Angle Cable

M12 × 1.0 C-coded 2/3/4/5/6-pin, female right-angle to female right-angle, overmolded both ends, for sensors and actuators. 1, 2, 5 or 10 m

ORDERING CODE

M12C-[2/3/4/5/6]P-FF-RA-[jacket]-[U/S]-[length]M

CONNECTOR

M12 × 1.0, C-coded, female, right-angle to female right-angle

PINS AND CODING

2/3/4/5/6-pin C-coded · sensors and actuators

CABLE

PUR or PVC jacket · unshielded or shielded

LENGTHS

1 m, 2 m, 5 m, 10 m

CABLE TEMPERATURE

–40 to +105 °C

CONSTRUCTION

Standard	IEC 61076-2-101
Connector	M12 × 1.0, C-coded, female, right-angle to female right-angle
Termination	Soldered and overmolded
Contacts	Brass, gold plated
Coupling	Screw lock, brass, nickel plated
Overmold	TPU body and overmold
Shield (S)	Brass shell, nickel plated
Jacket	PUR or PVC, black, –40 to +105 °C
Wire gauge	0.14 to 0.75 mm² range (26 to 18 AWG)
Wiring	Straight through, pin to pin

RATINGS

2-pin C-coded	250 V · 4 A
3-pin C-coded	250 V · 4 A
4-pin C-coded	250 V · 4 A
5-pin C-coded	60 V · 4 A
6-pin C-coded	30 V · 2 A

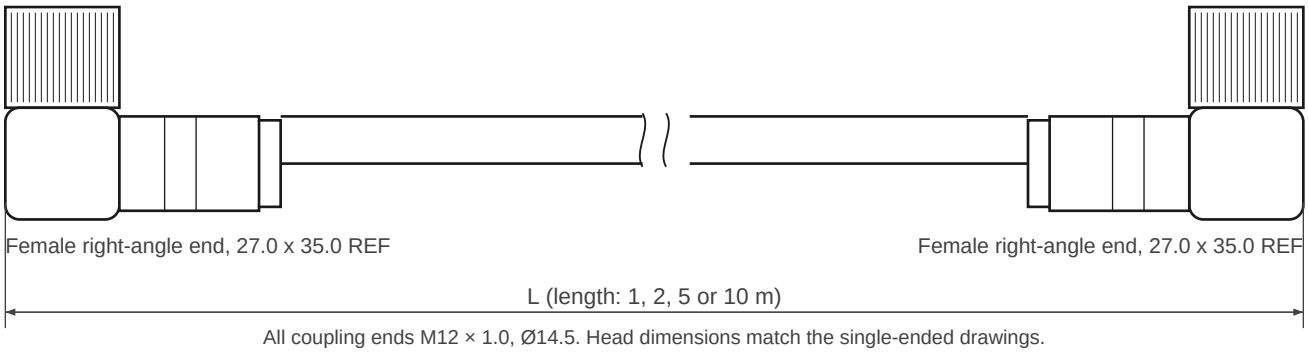
GENERAL

Current rating at	40 °C
Cable temp.	–40 to +105 °C
Insulation resist.	≥ 100 MΩ
Contact resist.	≤ 5 mΩ
Mating cycles	> 100
Compliance	RoHS / REACH

BUILT TO ORDER
Standard configurations ship in about 5 to 6 weeks. Request a quote on formrep.com or call 816-782-7800.

NEED SOMETHING DIFFERENT?
Other lengths, cable types and mixed-connector versions are available. Ask for a made-to-fit quote.

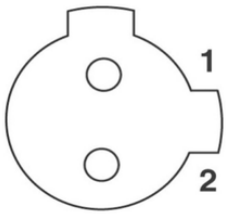
Dimensions, pin layouts and ordering



All coupling ends M12 × 1.0, Ø14.5. Head dimensions match the single-ended drawings.

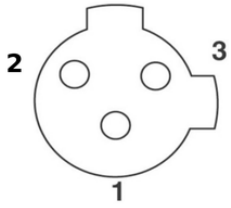
PIN LAYOUT, FEMALE FACE VIEW, BOTH ENDS (MATING SIDE)

2-pin C-coded



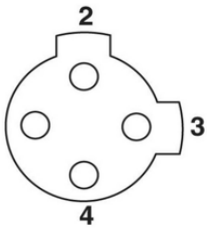
Female face view (mating side)

3-pin C-coded



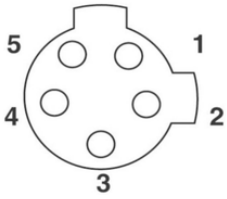
Female face view (mating side)

4-pin C-coded



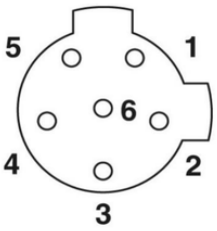
Female face view (mating side)

5-pin C-coded



Female face view (mating side)

6-pin C-coded



Female face view (mating side)

ORDERING CODE

M12C	-	2P	-	FF-RA	-	PUR	-	U	-	2M
M12 C-coded		2/3/4/5/6 pins		this cable family		jacket: PUR or PVC		U = unshielded, S = shielded		length: 1M, 2M, 5M, 10M

Example: M12C-2P-FF-RA-PUR-U-2M = 2-pin C-coded M12 female right-angle to female right-angle, PUR jacket, unshielded, 2 m.

STANDARD CONFIGURATIONS (80)

M12C-2P-FF-RA-PUR-U-1M	M12C-2P-FF-RA-PVC-S-5M	M12C-3P-FF-RA-PVC-S-1M	M12C-4P-FF-RA-PVC-U-5M	M12C-5P-FF-RA-PVC-U-1M	M12C-6P-FF-RA-PUR-S-5M
M12C-2P-FF-RA-PUR-U-2M	M12C-2P-FF-RA-PVC-S-10M	M12C-3P-FF-RA-PVC-S-2M	M12C-4P-FF-RA-PVC-U-10M	M12C-5P-FF-RA-PVC-U-2M	M12C-6P-FF-RA-PUR-S-10M
M12C-2P-FF-RA-PUR-U-5M	M12C-3P-FF-RA-PUR-U-1M	M12C-3P-FF-RA-PVC-S-5M	M12C-4P-FF-RA-PVC-S-1M	M12C-5P-FF-RA-PVC-U-5M	M12C-6P-FF-RA-PVC-U-1M
M12C-2P-FF-RA-PUR-U-10M	M12C-3P-FF-RA-PUR-U-2M	M12C-3P-FF-RA-PVC-S-10M	M12C-4P-FF-RA-PVC-S-2M	M12C-5P-FF-RA-PVC-U-10M	M12C-6P-FF-RA-PVC-U-2M
M12C-2P-FF-RA-PUR-S-1M	M12C-3P-FF-RA-PUR-U-5M	M12C-4P-FF-RA-PUR-U-1M	M12C-4P-FF-RA-PVC-S-5M	M12C-5P-FF-RA-PVC-S-1M	M12C-6P-FF-RA-PVC-U-5M
M12C-2P-FF-RA-PUR-S-2M	M12C-3P-FF-RA-PUR-U-10M	M12C-4P-FF-RA-PUR-U-2M	M12C-4P-FF-RA-PVC-S-10M	M12C-5P-FF-RA-PVC-S-2M	M12C-6P-FF-RA-PVC-U-10M
M12C-2P-FF-RA-PUR-S-5M	M12C-3P-FF-RA-PUR-S-1M	M12C-4P-FF-RA-PUR-U-5M	M12C-5P-FF-RA-PUR-U-1M	M12C-5P-FF-RA-PVC-S-5M	M12C-6P-FF-RA-PVC-S-1M
M12C-2P-FF-RA-PUR-S-10M	M12C-3P-FF-RA-PUR-S-2M	M12C-4P-FF-RA-PUR-U-10M	M12C-5P-FF-RA-PUR-U-2M	M12C-5P-FF-RA-PVC-S-10M	M12C-6P-FF-RA-PVC-S-2M
M12C-2P-FF-RA-PVC-U-1M	M12C-3P-FF-RA-PUR-S-5M	M12C-4P-FF-RA-PUR-S-1M	M12C-5P-FF-RA-PUR-U-5M	M12C-6P-FF-RA-PUR-U-1M	M12C-6P-FF-RA-PVC-S-5M
M12C-2P-FF-RA-PVC-U-2M	M12C-3P-FF-RA-PUR-S-10M	M12C-4P-FF-RA-PUR-S-2M	M12C-5P-FF-RA-PUR-U-10M	M12C-6P-FF-RA-PUR-U-2M	M12C-6P-FF-RA-PVC-S-10M
M12C-2P-FF-RA-PVC-U-5M	M12C-3P-FF-RA-PVC-U-1M	M12C-4P-FF-RA-PUR-S-5M	M12C-5P-FF-RA-PUR-S-1M	M12C-6P-FF-RA-PUR-U-5M	
M12C-2P-FF-RA-PVC-U-10M	M12C-3P-FF-RA-PVC-U-2M	M12C-4P-FF-RA-PUR-S-10M	M12C-5P-FF-RA-PUR-S-2M	M12C-6P-FF-RA-PUR-U-10M	
M12C-2P-FF-RA-PVC-S-1M	M12C-3P-FF-RA-PVC-U-5M	M12C-4P-FF-RA-PVC-U-1M	M12C-5P-FF-RA-PUR-S-5M	M12C-6P-FF-RA-PUR-S-1M	
M12C-2P-FF-RA-PVC-S-2M	M12C-3P-FF-RA-PVC-U-10M	M12C-4P-FF-RA-PVC-U-2M	M12C-5P-FF-RA-PUR-S-10M	M12C-6P-FF-RA-PUR-S-2M	