# M12 C-Coded Female Right-Angle Molded Cable, Single-Ended

M12 × 1.0 C-coded 2/3/4/5/6-pin female right-angle connector, overmolded onto PUR or PVC cable for sensors and actuators. 1, 2, 5 or 10

ORDERING CODE
**M12C-[2/3/4/5/6]P-F-RA-[jacket]-[U/S]-[length]M**

CONNECTOR
**M12 × 1.0, C-coded, 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 |
| **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) |
| **Free end** | Open conductors |

## 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 |

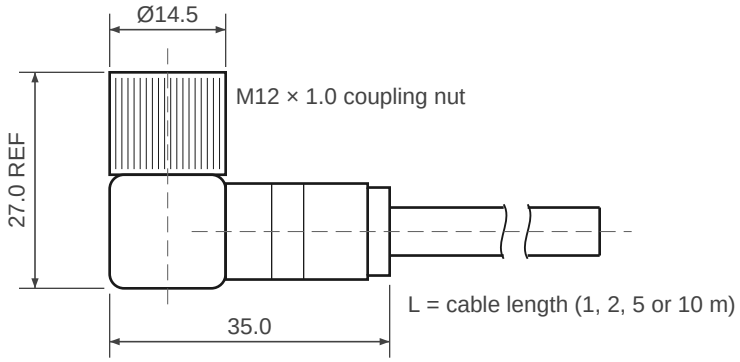
## GENERAL

| | |
|---|---|
| **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.

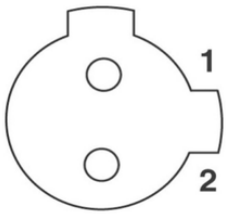
**NEED SOMETHING DIFFERENT?**
Other lengths, cable types and mixed-connector versions are available. Ask for a made-to-fit quote.

# Dimensions, pin layouts and ordering



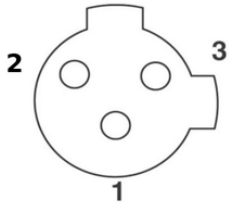

## PIN LAYOUTS, FEMALE FACE VIEW (MATING SIDE)

**2-pin C-coded**



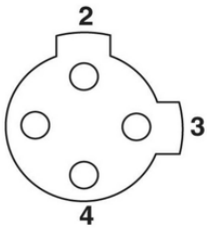

Female face view (mating side)

**3-pin C-coded**



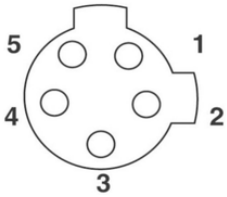

Female face view (mating side)

**4-pin C-coded**



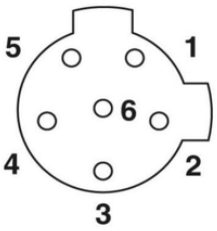

Female face view (mating side)

**5-pin C-coded**




Female face view (mating side)

**6-pin C-coded**




Female face view (mating side)

## ORDERING CODE

| M12C | - | 2P | - | F-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-F-RA-PUR-U-2M = 2-pin C-coded M12 female right-angle, PUR jacket, unshielded, 2 m.

## STANDARD CONFIGURATIONS (80)

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