

## M12 C-Coded Male to Male Right-Angle Cable

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



### ORDERING CODE

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

### CONNECTOR

**M12 × 1.0, C-coded, male, right-angle to male 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, male, right-angle to male 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 mm <sup>2</sup> 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   |

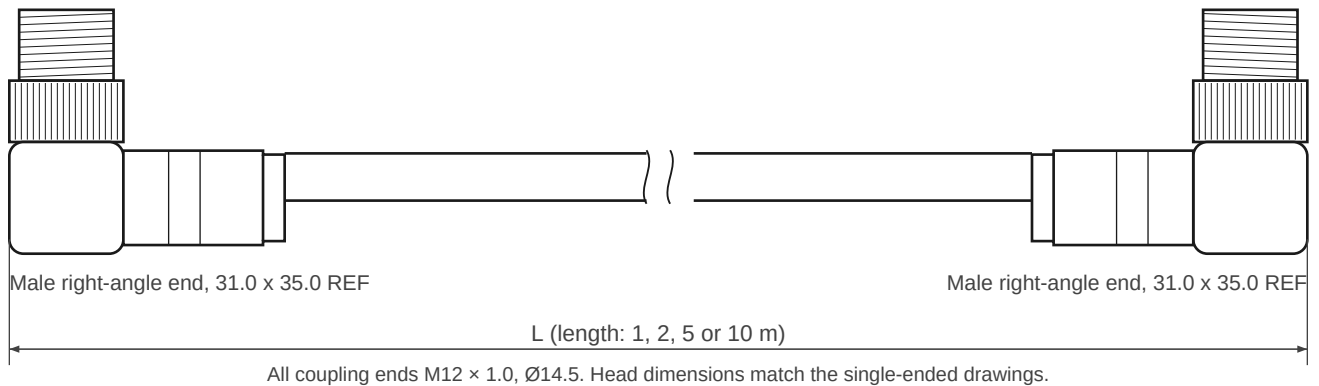
### BUILT TO ORDER

Standard configurations ship in about 5 to 6 weeks. Request a quote on [formrep.com](http://formrep.com) or call 816-782-7800.

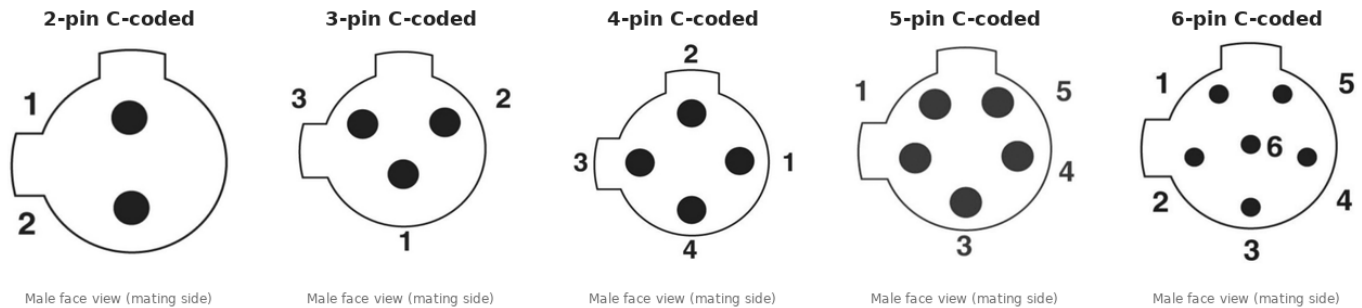
### NEED SOMETHING DIFFERENT?

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

## Dimensions, pin layouts and ordering



### PIN LAYOUT, MALE FACE VIEW, BOTH ENDS (MATING SIDE)



### ORDERING CODE

|             |   |                |   |                   |   |                    |   |                              |   |                         |
|-------------|---|----------------|---|-------------------|---|--------------------|---|------------------------------|---|-------------------------|
| <b>M12C</b> | - | <b>2P</b>      | - | <b>MM-RA</b>      | - | <b>PUR</b>         | - | <b>U</b>                     | - | <b>2M</b>               |
| 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-MM-RA-PUR-U-2M = 2-pin C-coded M12 male right-angle to male right-angle, PUR jacket, unshielded, 2 m.

### STANDARD CONFIGURATIONS (80)

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