

# Industrial Ethernet Brad® Micro-Change® (M12) Double-Ended Cordsets

**130048**  
**Female-to-Male**  
**Straight**  
**Threaded**



### Features and Benefits

- Familiar, proven M12 form factor provides robust connection
- Category 5e compliant
- D-Coded to ensure proper alignment/mating
- IP67 rated for harsh environments

### Reference Information

UL File No.: E200650

### Physical

Connector Body: PUR  
O-Ring: Viton®  
Coupling Nut: Nickel-plated Brass  
Contacts: Copper alloy with Gold over Nickel plating

### Environmental

Protection: IP67  
NEMA Rating: NEMA 6  
Operating Temperature: -20 to 75° C

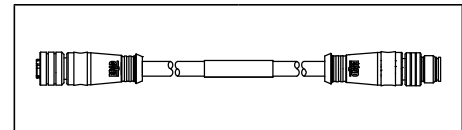
### Cables

#### 03—Unshielded PVC

Conductors: 24 AWG stranded tinned Copper wire  
Pair: Two pair UTP patch cable  
Outside Diameter: 0.250" (5.6mm) nominal  
Jacket Material: Teal PVC  
Cable Properties: Sun and oil resistant  
Inner Material Insulation: HDPE  
Certification: UL Type CMR, CEC C(UL) Type CMR  
TIA/EIA Rating: Category 5e  
Operating Temperature: -40 to +75° C

#### 15—Shielded PVC

Conductors: 26 AWG stranded tinned Copper wire  
Pair: Two pair UTP patch cable  
Outside Diameter: 0.236" (5.99mm) nominal  
Jacket Material: Teal PVC  
Cable Properties: Sun and oil resistant  
Inner Material Insulation: Foamed Polypropylene  
Shield Type: Foil Shield, 100% coverage, 25% min. overlap  
Certification: UL Type CMR, CEC C(UL) Type CMR  
TIA/EIA Rating: Category 5e  
Operating Temperature: -20 to +75° C



Face View	Max. Current Per Contact	Max. Voltage	Cable Type	Cable Jacket	Wire Size AWG	Length	Female Straight-to-Male Straight	
							Engineering No.	Standard Order No.
<p>4 Pole</p> <p>1 - Orange      4 - Blue-White 2 - Blue        5 - D-Coded 3 - Orange-White</p>	1.5A	30V	Unshielded	PVC	24	.02m	E11B03003M002	130048-0193
			Shielded	PVC	26		E11B03015M002	130048-0195

Note: Sales drawings for all standard order numbers are available on [molex.com](http://molex.com).  
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**Configuration Code\***  
Build-a-Part Number

	Length	Code
Meters	1	M010
	2	M020
	5	M050
	10	M100

E11B03003M002

→ Cable Option  
→ Wiring Option