1000 Eaton Boulevard
Cleveland, OH 44122
United States

# M12 X-Code Cat6a 10G F/UTP CMR-LP Shielded Ethernet Cable (M/M), IP68, PoE, Blue, 3 m (9.8 ft.)

MODEL NUMBER: **NM12-6A1-03M-BL**






Connects 10G Ethernet network equipment in industrial and other harsh environments subject to vibration, humidity and extreme temperatures.

## Highlights

- Designed to withstand vibration, moisture and extreme temperatures in harsh environments
- IP68-rated to resist dust and endure immersion in 1.5 m of water up to 60 min.
- Supports 60W PoE to save you expense and effort of powering PoE devices individually
- UL CMR-LP certified to meet high-temperature safety standards in PoE applications
- Blue PVC jacket easy to identify quickly in field devices, controllers and switches

## Package Includes

NM12-6A1-03M-BL M12 X-Code Cat6a 10G Ethernet Cable, M/M, Blue, 3 m (9.8 ft.)

## Features

**Cat6a M12 Cable Recommended for Industrial and Other Harsh Environments**
This M12 X-Code cable connects 10 GbE networks in wet/humid environments, places subject to vibration and other areas where protection from harsh elements is essential, such as factories, warehouses, recycling plants, airports, railways and machine shops. The circular M12 connectors with 12-millimeter locking thread are especially designed for washdown and corrosive applications, including agriculture, alternative energy, communications, factory automation, measurement and control, robotics, transportation and food/beverage facilities.

**IP68 Rating Denotes Resistance to Dust and Water**
The IP68 rating means the M12 cable is not only 100% protected against dust, but also able to endure immersion in 1.5 meters of water for up to 60 minutes with no damage or decline in performance.

**Supports Power over Ethernet to Save You Money and Give You More Installation Choices**
Because this Cat6a cable supports high-power 60W PoE, it can supply the power to operate compatible data, voice, security and audio/video PoE devices, such as surveillance cameras, VoIP telephones and access control devices. This saves you the expense and effort of purchasing, connecting and installing individual power supplies for each device, as well as installing separate power and data cables. It also helps you install PoE devices in areas far away from AC outlets, such as poles or ceilings.

**CMR-LP Certified for Cable Installations with Increased Power Levels**
UL's Limited Power (LP) certification indicates the NM12-6A1-03M-BL has been evaluated to handle the marked current under installation scenarios without exceeding the temperature rating of the cable. This CMR-LP-certified cable provides a simple way to prepare installations for increased power levels without having to worry about susceptible issues caused by excessive heat.

**Colored Blue to Avoid Misidentification That Can Cause Costly Downtime**
This Cat6a F/UTP copper cable features a blue PVC jacket that allows easy, fast identification in field devices, controllers and switches and helps prevent the cable from becoming inadvertently disconnected.

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# Specifications

| | |
|---|---|
| **OVERVIEW** | |
| UPC Code | 037332265388 |
| Technology | Cat6a; PoE |
| **PHYSICAL** | |
| Cable Jacket Color | Blue |
| Cable Jacket Material | PVC |
| Cable Jacket Rating | CMR-LP |
| Cable Shielding | F/UTP |
| Cable Outer Diameter (OD) | 7.3 mm |
| Number of Conductors | 4 Pair |
| Conductor Material | Solid Copper |
| Conductor Gauge | 23 AWG |
| Wire Gauge (AWG) | 23 |
| Cable Length (ft.) | 9.8 |
| Cable Length (m) | 2.99 |
| **ENVIRONMENTAL** | |
| Operating Temperature Range | 14 to 140 F (-10 to 60 C) |
| Storage Temperature Range | -4 to 158 F (-20 to 70 C) |
| Operating Humidity Range | 0% to 90% RH, Non-Condensing |
| Storage Humidity Range | 0% to 90% RH, Non-Condensing |
| Power Provided to Connected Device(s) | 51W (60W @ SOURCE, 51W @ DEVICE) |
| **COMMUNICATIONS** | |
| Bandwidth per TIA Standard | 500 MHz |
| Maximum Bandwidth as Tested | 600 MHz |
| Network Compatibility | 10 Gbps |
| IEEE Standards Supported | 802.3bt |
| **CONNECTIONS** | |
| PoE Capability | 60W (802.3bt) |
| Side A - Connector 1 | M12 X CODE (MALE) |
| Side B - Connector 1 | M12 X CODE (MALE) |

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|---|---|
| Crossover Wiring | No |
| Contact Plating | Gold |
| PoE Type | Type 3 PoE++/UPoE (60W, IEEE 802.3bt) |
| Connector Type | Snagless |
| Wiring Configuration | EIA/TIA 568B |
| Angled Connector | No |
| **FEATURES & SPECIFICATIONS** | |
| IP68 Rated | Yes |
| Snagless Connector | Yes |
| Antibacterial | No |
| **STANDARDS & COMPLIANCE** | |
| Protection Rating | IP68 |
| Product Certifications | UL Listed; cUL Listed |
| Product Compliance | CE (Europe); RoHS; IEEE 802.3bt PoE++; REACH; UKCA; Trade Agreements Act (TAA) |
| **WARRANTY & SUPPORT** | |
| Product Warranty Period (Worldwide) | Lifetime limited warranty |

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