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, 5 m (16.4 ft.)

MODEL NUMBER: **NM12-6A1-05M-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

NM12-6A1-05M-BL M12 X-Code Cat6a 10G Ethernet Cable, M/M, Blue, 5 m (16.4 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 NM12-6A1-05M-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	037332265395
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.)	16.4
Cable Length (m)	5.00
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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