# IndustrialNet<sup>™</sup> Category 5e Solid Conductor F/UTP Copper Cable

#### specifications

Category 5e 4-pair UTP copper cable shall meet or exceed the ANSI/TIA-568-C.2 Category 5e and ODVA EtherNet/IP^ standards. The solid copper conductors shall be 24 AWG with high density polyethylene (HDPE) insulation. The copper conductors shall be twisted in pairs and wrapped with a foam polypropylene tape to form a core. All pairs shall then be covered with an industrially rated black PVC jacket which shall be oil and sunlight resistant and flame retardant to CMX Outdoor/CMR for industrial Ethernet applications. This cable shall be rated for panel or on-machine applications where space is shared with 600 V high voltage cables.

### technical information

Category 5e component performance up to 100 meters:	Meets or exceeds the requirements of ANSI/TIA-568-C.2 Category 5e at swept frequencies up to 100 MHz	
Electrical performance:	Conforms to ODVA EtherNet/IP^ performance requirements	
Standard compliances:	UL AWM Style 2570 (80°C 600 V), Oil Res and Sun Res, UL 444 Sun Res, UL 1666 CMR	
RoHS compliance:	Compliant (EU DIRECTIVE 2011/65/EU)	
Conductors/insulators:	Four pairs of 24 AWG solid copper insulated with high density polyethylene (HDPE) insulation	
Insulation diameter:	0.97 – 1.17mm (0.038 – 0.046 in.)	
Flame rating:	CMX Outdoor/CMR	
Installation tension:	110 N (25 lbf) maximum	
Temperature rating:	-20°C to 75°C (-4°F to 167°F) during transport, installation -40°C to 75°C (-40°F to 167°F) operation temperature	
Cable jacket:	Oil and sunlight resistant PVC	
Cable diameter:	6.55 – 7.19mm (0.258 – 0.283 in.)	
Cable weight:	15 kg/305m (34 lbs./1000 ft.)	
Packaging:	Packaged 305 meters (1000 feet) on a reel Package tested to ISTA Procedure 1A	

### key features and benefits

Third party tested:	Provides confidence that the cable delivers Category 5e performance for the 100 meter channel	
Oil and sunlight performance rated cable jacket:	Delivers enhanced chemical resistance and mechanical performance	
EtherNet/IP compliant design:	Provides performance levels required to support industrial network applications	
600 V rated jacket:	Approved for control panel or on-machine applications when the space is shared with 600 V high voltage power cables, required for UL 508A	

### applications

IndustrialNet<sup>™</sup> Category 5e Solid Conductor F/UTP Copper Cable provides reliability and high performance as an integral component of the end-to-end solution for industrial Ethernet based communications networks. The cable with oil and UV resistant PVC jacket withstands harsh industrial conditions such as oil rigs and other hazardous environments. Rated for panel or on-machine applications when the space is

shared with 600 V high voltage power cables, IndustrialNet<sup>™</sup> Category 5e Solid Conductor F/UTP Copper Cable is ideal for control panel deployments featuring power source voltages. Category 5e rated cable is suitable for transmission of high performance 10BASE-T, 100BASE-T and 1000BASE-T uplinks featuring up to gigabit data transmission from the control panel to the consolidation point.



tegory 5e F/UTP
IR IFRH5C04BL-UG
5 Plug
FPS6X88MTG
12X-Code Plug
ISPS6A88MFA
tegory 5e Shielded h Cords
ISTPHCH1MTL*
2 D-Code to t Adapter
ICAM12DRJS
N Rail Mount
CDPP8RG
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CADIN1IG**
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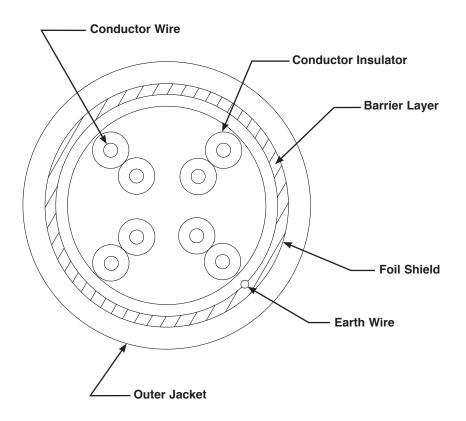
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#### additional specifications

Mechanical Test			
Maximum Pulling Force	111 N (25 lbf)		
Minimum Bend Radius	25mm (0.98 in.)		
Electrical Test			
Nominal Velocity of Propagation (NVP)	70%		
Operating Voltage, Maximum	80 V		

#### cable construction





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