Cat5e Industrial Ethernet Cable



Conductor Material Tinned Copper Conductor Insulation Wall Thickness Dare Conductor Diameter 0.029 in; nominal									
A104307.1 Cat5e industrial Ethernet Flexible 20				A104307-1 C	able Specifi	ble Specifications			
Physical Properties Conductor Gauge 22 AWG Conductor Stranding T-stranded timed copper Conductor Material Timed Copper Conductor Insulation Wall Thickness 0.015 irr, nominal Conductor Assembly 2 twisted pairs Bare Conductor Diameter 0.029 irr, nominal 0.029 irr, nominal Color Code Pair 1			Part Number	Wire/Cable Type	Flexibility		,,,	Price per foot	
Conductor Gauge 22 AWG Conductor Stranding 7-stranded tinned copper Conductor Material Tinned Copper Conductor Insulation Wall Thickness 0.015 in; nominal 0.016 in;			A104307-1	Cat5e industrial Ethernet	Flexible	20	0.04	\$1.60	
Description Timed Copper Conductor Insulation Wall Timed Copper Conductor Assembly 2 twisted pairs Bare Conductor Diameter 0.029 in; nominal	Physical Properties								
Innea copper Thickness U.U.s is, nominal	Conductor Gauge		22 AWG		Conductor Stranding		7-stranded tinned copper		
Pair 1 White, Blue Insulated Conductor Diameter 0.059 in; nominal Pair 2 Yellow, Orange Twisted Conductor Diameter 0.118 in; nominal 0.118 in; nom	Conductor Material		Tinned Copper				0.015 in; nominal		
Pair 2 Yellow, Orange Twisted Conductor Diameter 0.118 in: nominal 0.256 in, nominal 0.256 in	Conductor Assembly		2 twisted pairs		Bare Conductor Diameter		0.029 in; nominal		
Pair 3		Pair 1	White, Blue		Insulated Conductor Diameter		0.059 in; nominal		
Pair 3	Color Code	Pair 2	Yellow, Orange		Twisted Conductor Diameter		<u> </u>		
Formula (a) $0.00000000000000000000000000000000000$		Pair 3	N/A		Overall Cable Diameter		0.256 in; nominal		
Properature Rating	Pair 4		N/A		Jacket Color		Green		
No Sunlight Resistant Yes	Voltage Rating		600V		Jacket Thickness		,		
Shield Shield Shield Oil Resistance Yes Orain No Flame Retardant Yes Conductor Insulation Special Polyolefin Alastrial Section Special Polyolefin Aliminum Bend Radius 1.54in Sample Print Legend Sample Print Legend Sample Print Legend Cabled Core Diameter 0.182 in Electrical Characteristics (for 100 meters of cable) Impedance (1-100 MHz) It is 15 and III is is is incorporate in the section of th	Temperature Rating		-40 to 80 °C (-40 to 176 °F)		Jacket Material				
Train No Flame Retardant Yes Conductor Insulation Material Special Polyolefin Special Polyolefin Special Polyolefin 1.54in Sample Print Legend Sample Print Legend Cabled Core Diameter O.182 in Flectrical Characteristics (for 100 meters of cable) Electrical Characteristics (for 100 meters of cable) UL Classification (cULus) TYPE CMG f7ETC or AWM Style 20201; (cURus) Class 1 and II, Div. 2; Class 1 Div. 2 Capacitance 15.2 pF/ft @ 1MHz; Nominal Approvals** CULus, CURus, CE, RoHs Attenuation Crosstalk Ratio, Far End (ACRF) Far End (ACRF) 1 $\leq f \leq 100$ MHz: 23.8 - 20 LOG(f/100) dB MIN 10 $\leq f \leq 20$ MHz: 25 dB MIN 20 $\leq f \leq 100$ MHz: 25 + 5 LOG(f/20) dB MIN 10 $\leq f \leq 20$ MHz: 25 dB MIN 20 $\leq f \leq 100$ MHz: 35.3 - 15 LOG(f/100) dB MIN 10 $\leq f \leq 100$ MHz: 35.3 - 15 LOG(f/100) dB MIN 20 $\leq f \leq 100$ MHz: 35.3 - 15 LOG(f/100) dB MIN Cross Section Cross Section Cross Section Cross Section	Plenum				Sunlight Resistant				
Conductor Insulation Material Special Polyolefin Minimum Bend Radius 1.54in Sample Print Legend Sample Print Legend Sample Print Legend Cabled Core Diameter 0.182 in Sample Print Legend Cullus TYPE Cat 5e E38456 (UL) TYPE Chief Cor <a 600"="" color="" href="Color of Color Cullus" type="">Cullus TYPE Color 600">Cullus Color 600">Cullus TYPE Color 600">Cullus TYPE Color 600">Cullus Color 600">Cullus TYPE Colo	Shield		Shielded						
Material Special Polybelini Minimum Bend Radius 1.54in Sample Print Legend 1.54in Sample Print Legend 1.54in Sample Print Legend 1.54in Sample Print Legend 1.54in Print Collaboration 1.54in Print Rolls 2.22AM/C22/7) PROFINET TYPE B Cat 5ε E336436 (UL) TYPE CMG 75°C or logo cURus-AWM STYLE 20201 60°C 600V III I/AP FT1 Rolls 4.4 American Rolls 4.4 American Rolls 4.4 American Rolls 5.4 American Rolls 4.4 American Rolls 6.4 American Rolls 6.4 American Rolls 6.4 American Rolls 6.4 American Rolls 7.4 Amer	Drain		No				<lütze logo=""> ELECTRONIC ETHERNET (C) PVC 104307 (2x2xAWG22/7) PROFINET TYPE B Cat 5e E336436 (UL) TYPE PLTC FT4 or c(UL)us TYPE CMG 75°C or <logo curus=""> AWM STYLE 20201 60°C 600V I/II A/B FT1 RoHS <date yyww=""> UKCA CE-</date></logo></lütze>		
Sample Print Legend Print Legend Print Legend Print Legend Print Fit or c(UL)us TYPE CMG. 75°C or clogor cURus> AWM STYLE 20201 60°C 600°V (III AB FT1 RoHS									

^{*} See web store <u>www.AutomationDirect.com</u> for maximum cut lengths

^{**} To obtain the most current agency approval information, see the Agency Approval Checklist section on the part number's web page at www.AutomationDirect.com





Please Note: Our prices on Continuous
Flexing IE Cable are closely tied to the
market price for copper. This allows us to offer
the best savings possible if conditions are favorable;
however, it also means that our prices may
increase if market conditions warrant.



LUTZE Industrial Ethernet Cables

LUTZE Industrial Ethernet Cables

Many industrial applications expose cables to hazards that are not present in commercial data cabling installations. Although a cable suited for commercial applications may initially work in a harsh industrial environment, it could quickly fail when used in an industrial application. While commercial grade cables may have a low initial product cost, downtime due to premature failure can be avoided by using a cable that has been designed and tested for the industrial environment. LUTZE's Industrial Ethernet cables were developed to survive the many industrial hazards that commercial cables will not, such as oils, harsh chemicals and cleaning agents often associated with the factory floor.

There are more than just physical hazards to overcome in an industrial application; electrical threats pose an issue for Ethernet cables as well. The presence of EMF/EMI can create a real issue for communication networks and where you can use a shielded commercial product. In most cases, the shielding provided is a single layer of foil which is adequate for installation away from the factory floor. However, when dealing with electrical noise generated by motors and switching equipment, commercial cables struggle to meet the demands of a typical industrial environment. The Industrial Ethernet cables from LUTZE are made with both a foil layer and a tinned copper braid to provide superior noise rejection compared to the commercial counterparts.

Furthermore, commercial Ethernet cables have a tube jacket surrounding the conductor pairs with room within for the pairs to move around and even untwist in applications requiring constant motion. This results in early mechanical or electrical failure of the cable. LUTZE continuous flexing Industrial Ethernet cable have a jacket that is pressure extruded over the cable core, effectively "locking" the conductor pairs in place. This type of jacket construction provides very stable electrical performance, even when the cable is impacted, bent, or repeatedly flexed. Pressure extrusion also provides a very smooth, round, and firm jacket profile that is crush resistant and ideal for obtaining a reliable termination and seal when installing connectors.





Features

- Available in Category 5e, 6 and 6a
- In compliance with TIA 568-C.2 and TIA 1005
- \bullet Designed for use in EtherNet/IP systems *
- 26-22 AWG stranded or 22 AWG solid
- 2 or 4 twisted pairs
- Shielded constructions
- Rugged TPE and PVC jacket options
- UL Type CMX OUTDOOR CM and UL AWM Style 2463 (80°C, 600V)
- · Cut to length in 1-foot increments
- · Low 20-foot minimum length
- * EtherNet/IP is a trademark of ODVA, Inc.

Description

AutomationDirect offers Lutze Industrial Ethernet cable in 2 and 4 pair, unshielded and shielded constructions. Conductors are color coded high density polyethylene insulation. Shielded constructions include both a tinned copper braid shield and aluminized polyester foil overall shield. All constructions feature a rugged jacket with excellent moisture, chemical, UV and weathering resistance, exceptional low-temperature flexibility, and good flame and fire resistance. Some are specifically designed and constructed for continuous flexing applications. Agency approvals include UL Type CMX OUTDOOR, UL Type CMG/PLTC, UL AWM Style 2570, and UL AWM Style 20201.

Click on the thumbnail to the right or go to https://www.automationdirect.com/vID-WD-0016 for a short introduction on our cut to length cable



