1-800-633-0405 For the la Cat5e Industrial Ethernet Cable

For the latest prices, please check AutomationDirect.com.



A104349-1 Cable Specifications							
		Part Number	Wire/Cable Type	Flexibility	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
the second		<u>A104349-1</u>	Cat5e industrial Ethernet	Flexible	20	0.06	\$2.96
		Physical Propert		ical Properties	1		
Conductor Gauge		22 AWG		Conductor Stranding		7-stranded tinned copper	
Conductor Material		Tinned Copper		Conductor Insulation Wall Thickness		0.013 in; nominal	
Conductor Assembly		4 twisted pairs		Bare Conductor Diameter		0.029 in; nominal	
Color Code	Pair 1	Blue, White/Blue		Insulated Conductor Diameter		0.055 in; nominal	
	Pair 2	Orange, White/Orange		Twisted Conductor Diameter		0.110 in; nominal	
	Pair 3	Green, White/Green		Overall Cable Diameter		0.338 in; nominal	
Pair 4		Brown, White/Brown		Jacket Color		Teal	
Voltage Rating		600V		Jacket Thickness		0.039 in; nominal	
Temperature Rating		-40 to 80 °C (-40 to 176 °F)		Jacket Material		PVC	
Plenum Shield		No		Sunlight Resistant		Yes	
Shieid Drain		Shielded		Oil Resistance Flame Retardant		Yes	
Conductor Insulation Material		Special Polyolefin		Sample Print Legend		LÜTZE ELECTRONIC ETHERNET (C) PVC 104349 (4×(2×AWG22/1) Cat 5e E331628 (UL) TYPE PLTC 75°C FT4 or c(UL)us TYPE CMX OUTDOOR-CMR 75°C or c(UR)us AWM STYLE 2570 80°C 600V //II A/B FT1 RoHS YYWW CE-44 Meters	
Minimum Bend Radius		2.03in					
Cabled Core Diameter		0.258 in					
Impedance (1-100 MHz)		100 Ω 1 – 100 MHz		UL Classification		(cULus) TYPE CMX Outdoor/CMG/PLTC or AWM Style 2570; NEC (cURus) Class I and II, Div. 2; Class 1 Div. 2	
Capacitance		13.72 pF/ft @ 1MHz; Nominal		Approvals**		cULus, cURus,CE, RoHS	
Resistance, Max.				Attenuation Crosstalk Ratio, Far End (ACRF)		1 ≤ <i>f</i> ≤ 100 MHz: 23.8 - 20 LOG(<i>f</i> /100) dB MIN	
Dielectric Withstanding, Min.		1500V RMS		Insertion Loss		1 ≤ f ≤ 100 MHz: 1.967 \sqrt{f} + 0.023(f) + 0.050/ \sqrt{f} dB MAX	
Return Loss				Power Sum Attenuation to Crosstalk Ratio, Far End (PSACRF)		1 ≤ <i>f</i> ≤ 100 MHz: 20.8 - 20 LOG(<i>f</i> /100) dB MIN	
Near End Crosstalk (NEXT)		$1 \le f \le 100$ MHz: 35.3 - 15 LOG($f/100$) dB MIN $1 \le f \le 100$ MHz: 32.3 - 15 LOG($f/100$) dB MIN		Cross Section			
Power Sum Near End Crosstalk (PSNEXT)							
TCL		$1 \le f \le 100 \text{ MHz}$: 30 - 10 LOG($f/100$) dB MIN					
ELTCTL		0.72					
Velocity Of Propagation							
Delay		$4 \le f \le 100 \text{ MHz}: 534 + 36/\sqrt{(f \text{ ns MAX})}$					
Delay Skew		$1 \le f \le 100 \text{ MHz: } <25 \text{ns}/100 \text{m}$					

* See web store www.AutomationDirect.com 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 <u>www.AutomationDirect.com</u>



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.

tCBL-246





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
- 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 <u>https://www.automationdirect.com/VID-WD-0016</u> for a short introduction on our cut to length cable





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