Cat6a Industrial Ethernet Cable Continuous Flexing



Minimum Bend RadiusMoving: 3.22in Fixed: 2.42inSample Print Legend(4-PAIR AWG24) CR 2452inE319350 c/UL) CMX OUTDO CMR 75C SUN RES OR AVM STYLE 2463 80C 600 V CR 75C SUN RES OR AVM STYLE 2463 80C 600 V CE-59 <seq. ft="" mark="">Electrical Characteristics (for 100 meters of cable)Impedance (1-100 MHz)100 Ω 1 - 100 MHzUL Classification(cULus) TYPE CMX Outdoor/CMR: (cURus) TYICMGCapacitance17.2 pF/ft @ 1MHz; NominalApprovals** Approvals**CULus, uURus, CE, RoHSResistance, Max.24.5 Ω DC per 1000ftAttenuation Crosstalk Ratio, Far End (ACRF)$1 \le f \le 500$ MHz: $27.8 - 20$ LOG(f/100) dB MINDielectric Withstanding, Min.Insertion Loss$1 \le f \le 500$ MHz: 28.2×10^{-1} ($1 \le f \le 500$ MHz: 25.7×10^{-1} ($1 \le f \le 500$ MHz: 25.7×10^{-1} ($1 \le f \le 500$ MHz: 25.7×10^{-1} ($1 \le f \le 500$ MHz: 25.7×10^{-1} ($1 \le f \le 500$ MHz: 25.7×10^{-1} ($1 \le f \le 500$ MHz: 25.7×10^{-1} ($1 \le f \le 500$ MHz: 25.7×10^{-1} (25.7×10^{-1} (25.7×10^{-1}) dB MINPower Sum Near End Crosstalk (PSNEXT)$1 \le f \le 500$ MHz: 25.7×10^{-1} (25.7×10^{-1}) dB MINCross SectionTCL$1 \le f \le 500$ MHz: 25.7×10^{-1} (25.7×10^{-1}) dB MINCross SectionVelocity Of Propagation0.67Cross Section</seq.>				A1040030-1 C	able Specif	ications		
Physical Properties Flexing 20 0.05 \$3.46			Part Number	Wire/Cable Type	Flexibility			Price per foot
Conductor Gauge 24 AWG Conductor Stranding 7-stranded timed copper Conductor Material Timed Copper Conductor Insulation Wall Thickness 0.011 in; nominal Conductor Assembly 4 twisted pairs Bare Conductor Diameter 0.023 in; nominal Pair 1 Blue, White/Brown Insulated Conductor Diameter 0.045 in; nominal Pair 2 Orange, White/Green Overall Cable Diameter 0.990 in; nominal Pair 3 Green, White/Green Overall Cable Diameter 0.322 in; nominal Voltage Rating 600 V Jacket Thickness 0.033 in; nominal Temperature Rating -40 to 80 °C (-40 to 176 °F) Jacket Material TPE Plenum No Sunlight Resistant Yes Shield Shielded 0.11 Resistance Yes Drain No Flame Retardant Yes Minimum Bend Radius Moving; 3.23n Sample Print Legend Www.lubs.co.com Park 1/400030 LUTZE Cabled Core Diameter 0.255 in Sample Print Legend COIL, CARC SCHEEN CAPYEND INCRESS COLOR CARC SCHEEN CAPYEND INCRESS COLOR CARC SCHEEN CAPYEND INCRESS COLOR CARC SCHEEN CAPYEND			<u>A1040030-1</u>	Cat6a industrial Ethernet		20	0.05	\$3.46
Conductor Material Tinned Copper Conductor Insulation Wall 7 Mickness 0.011 in; nominal 1 mickness Conductor Assembly 4 twisted pairs Bare Conductor Diameter 0.023 in; nominal Color Code Pair 1 Pair 2 Pair 2 Orange, White/Orange Twisted Conductor Diameter Pair 3 Green, White/Green Overall Cable Diameter 0.045 in; nominal Pair 2 Pair 4 Brown, White/Green Overall Cable Diameter Pair 4 Brown, White/Brown Jacket Tolkeness 0.032 in; nominal Voltage Rating Pair 4 Brown, White/Brown Jacket Thickness 0.033 in; nominal Temperature Rating Pair 4 Brown, White/Brown Jacket Thickness 0.033 in; nominal Temperature Rating Pair 4 Molo 80 °C (-40 to 176 °F) Jacket Material TPE No Sunlight Resistant Yes Shield Shielded Oil Resistance Yes Drain No Flame Retardant Yes Molight Resistant Yes Minimum Bend Radius Moving 3.22in Friend 2.42in Friend 2.42in Amylight Resistance Cabled Core Diameter 0.256 in U. Classification (cluss) TYPE CMX Oxidoor/CMR; (cURus) TYPE CMX Oxidoor/CMR; (cURus) TYPE CMX Oxidoor/CMR; (cURus) TYPE CMX Oxidoor/CMR; (cU				Physi	cal Properties			
Conductor Material	Conductor Gauge		24 AWG		-		7-stranded tinned copper	
Pair 1 Blue, White/Blue Insulated Conductor Diameter 0.045 in; nominal 0.04	Conductor Material		Tinned Copper				0.011 in; nominal	
Pair 2	Conductor Assembly		4 twisted pairs		Bare Conductor Diameter		0.023 in; nominal	
Pair 3 Green, White/Green Overall Cable Diameter 0.322 in, nominal		Pair 1	Blue, White/Blue		Insulated Conductor Diameter		0.045 in; nominal	
Pair 3 Green, Whitel/Green Overall Cable Diameter 0.32/ in; nominal	Color Code	Pair 2	Orange, White/Orange		Twisted Conductor Diameter		0.090 in; nominal	
Voltage Rating $600V$ $Jacket Thickness$ $0.033 \text{in}; nominal$ $T = P per ature Rating$ $40 \text{to } 80 ^{\circ} \text{C} (40 \text{to } 16 ^{\circ} \text{F})$ $Jacket Material$ TPE $P lenum$ No $Sunlight Resistant$ Yes $Shield$ Shielded $Oit Resistance$ Yes $Drain$ No $F lame Retardant$ Yes $Conductor Insulation$ Material $High-density Polyethylene (HDPE)$ $Wildensity Material$ $Wildensity Polyethylene (HDPE)$ $Minimum Bend Radius$ $Moving: 3.22in$ Fixed: $2.42in$ $Wildensity Polyethylene (HDPE)$ $Wildensity Polyethylene (HDPE)$ $Minimum Bend Radius$ $Moving: 3.22in$ Fixed: $2.42in$ $Sample Print Legend$ $Wildensity Polyethylene (HDPE)$ $Minimum Bend Radius$ $Moving: 3.22in$ Fixed: $2.42in$ $Sample Print Legend$ $Wildensity Polyethylene (HDPE)$ $Minimum Bend Radius$ $Moving: 3.22in$ Fixed: $2.42in$ $Sample Print Legend$ $Wildensity Polyethylene (HDPE)$ $Minimum Bend Radius$ $Moving: 3.22in$ Fixed: $2.42in$ $Moving: 3.22in$ Fixed: $2.42in$ $Moving: 4.22in$ Polyethylene (HDPE) $Minimum Bend Radius$ $Moving: 4.22in$ Fixed: $2.42in$ $Moving: 4.22in$ Polyethylene (HDPE) $Moving: 4.22in$ All Polyethylene (HDPE) $Minimum Bend Radius$ $Moving: 4.22in$ Polyethylene (HDPE) $Moving: 4.22in$ All Polyethylene (HDPE) Polyethylene (HDPE) All Polyethylene (HDPE) Polyethylene (HDPE) Polyethylene (HDPE) Polyethylene (HDPE) Polyethylene (HDPE) Polyethylene (HDPE) Polyethylene (HDPE) Polyethylene (HDPE) Polyethylene (HDPE) Polyet		Pair 3	Green, White/Green		Overall Cable Diameter		0.322 in; nominal	
Temperature Rating A0 to 80 °C (40 to 176 °F) Plenum No Sunlight Resistant Yes Shield Shielded Shielded No Plame Retardant Yes Conductor Insulation Meterial Moving: 3.22in Fixed: 2.42in Sample Print Legend Moving: 3.22in Fixed: 2.42in Cabled Core Diameter Cabled Core Diameter Telectrical Characteristics (for 100 meters of cable) Impedance (1-100 MHz) Insertion Loss Telectric Withstanding, Min. Power Sum Attenuation to Crosstalk (NEXT) Noar End Crosstalk (PSNEXT) 1 ≤ f ≤ 500 MHz: 25 - 7.0 LOG(ff/100) dB MIN Power Sum Near End Crosstalk (PSNEXT) Pollay 4 ≤ f ≤ 500 MHz: 35 - 20 LOG(ff) dB MIN Pollay A ≤ f ≤ 500 MHz: 35 - 20 LOG(ff) dB MIN Pollay A ≤ f ≤ 500 MHz: 35 - 20 LOG(ff/100) dB MIN Pollay A ≤ f ≤ 500 MHz: 534 + 36/√f ns MAX Power Sum Near End Crosstalk (PSNEXT) Pollay A ≤ f ≤ 500 MHz: 534 + 36/√f ns MAX Power Sum Near End Crosstalk (PSNEXT) Power Sum Near End Sum Near End Crosstalk (PSNEXT) Power Sum Near End Sum Near End Crosstalk (PSNEXT) Power Sum Near End Sum Near End Crosstalk (PSNEXT) Power Sum Near End Sum Near End Crosstalk (PSNEXT) Power Sum Near End Sum Near End Crosstalk (PSNEXT) Power Sum Near End Sum Near En	Pair 4		Brown, White/Brown		Jacket Color		Teal	
PlenumNoSunlight ResistantYesShieldShieldedOil ResistanceYesDrainNoFlame RetardantYesConductor Insulation MaterialHigh-density Polyethylene (HDPE)Www.lutze.com Part# A1040030 LUTZE MOTIONFLEX ETHERNET CATEA SF/UTP TP (4-PAIR AWG24)Www.lutze.com Part# A1040030 LUTZE MOTIONFLEX ETHERNET CATEA SF/UTP TP (4-PAIR AWG24)E319350 (CUL) CMX OUTDC CMR 75 CS UNRES OR AWM STYLE 2483 80C 600 VOU FIGURE ST CATEA SF/UTP TP (4-PAIR AWG24)E319350 (CUL) CMX OUTDC CMR 75 CS UNRES OR AWM STYLE 2483 80C 600 VOU FIRST CATEA SF/UTP TP CMX FLORE STANDARD COMPTICE STANDAR	Voltage Rating		600V		Jacket Thickness		0.033 in; nominal	
ShieldShieldedOil ResistanceYesDrainNoFlame RetardantYesConductor Insulation MaterialHigh-density Polyethylene (HDPE)AmerialWww.lutz.com Part# A1040030 LUTZE Moriong: 3.22in Fixed: 2.42inMinimum Bend RadiusMoving: 3.22in Fixed: 2.42inSample Print LegendMOTIONFLEX ETHERNET CATAG SFUTP TP (4-PAIR AWG24)E319350 c(UL) CMX OUTDO CMR 75C SUN RES OR AWM STYLE 2463 80C 800 V CE-59 SEQL FT MARK>Electrical Characteristics (for 100 meters of cable)Impedance (1-100 MHz)100 Ω 1 – 100 MHzUL Classification(cULus) TYPE CMX Outdoor/CMR; (cURus) TYE CMGCapacitance17.2 pF/fit @ 1MHz; NominalApprovals**CULus, uURus, CE, RoHSResistance, Max.24.5 Ω DC per 1000ftAttenuation Crosstalk Ratio, Far End (ACRF) $1 \le f \le 500$ MHz: 27.8 - 20 LOG(f/100) dB MINDielectric Withstanding, Min.10 $\le f < 10$ MHz: 20 + 5 LOG(f) dB MIN 10 $\le f < 20$ MHz: 25 dB MIN 20 $\le f \le 500$ MHz: 25 - 7.0 LOG(f/20) dB MIN10 $\le f < 500$ MHz: 24.8 - 20 LOG(f/100) dB MINNear End Crosstalk (NEXT) $1 \le f \le 500$ MHz: 35 - 20 LOG(f/100) dB MINCross SectionTCL $1 \le f \le 500$ MHz: 33 - 10 LOG(f/100) dB MINCross SectionDelay $4 \le f \le 500$ MHz: 534 + 36//(f ns MAX)	Temperature Rating		-40 to 80 °C (-40 to 176 °F)		Jacket Material		TPE	
Drain No Flame Retardant Yes Conductor Insulation Material High-density Polyethylene (HDPE) www.lutze.com Part# A1040030 LUTZE MOTIONFLEX ETHERNET CAT6A SFAUTP TP (I-PAR AWG24) www.lutze.com Part# A1040030 LUTZE MOTIONFLEX ETHERNET CAT6A SFAUTP TP (I-PAR AWG24) sample Print Legend www.lutze.com Part# A1040030 LUTZE MOTIONFLEX ETHERNET CAT6A SFAUTP TP (I-PAR AWG24) sample Print Legend www.lutze.com Part# A1040030 LUTZE MOTIONFLEX ETHERNET CAT6A SFAUTP TP (I-PAR AWG24) sample Print Legend www.lutze.com Part# A1040030 LUTZE MOTIONFLEX ETHERNET CAT6A SFAUTP TP CMR OTIONFLEX ETHERNET CAT6A STAUTP TP CAT6A STAUTP TP CMR OTIONFLEX ETHERNET CAT6A STAUTP TP CAT6A STAUTP TP CMR OTIONFLEX ETHERNET CAT6A STAUTP TP CAT6A STAUTP TP CAT6A STAUTP TP CAT6A STAUTP TP CAT6A	Plenum		No		Sunlight Resistant		Yes	
Conductor Insulation MaterialHigh-density Polyethylene (HDPE)Minimum Bend RadiusMoving: 3.22in Fixed: 2.42inSample Print LegendWinding Moving: 3.22in CMR 75c SUN RES OR AVM STYLE 2463 80C 600 V CMR 75c SUN RES OR AVM STYLE 2463 80C 600 V CMR 75c SUN RES OR AVM STYLE 2463 80C 600 V CMR 75c SUN RES OR AVM STYLE 2463 80C 600 V CMR 75c SUN RES OR AVM STYLE 2463 80C 600 V CMR 75c SUN RES OR AVM STYLE 2463 80C 600 V CMR 75c SUN RES OR AVM STYLE 2463 80C 600 V CMR 75c SUN RES OR AVM STYLE 2463 80C 600 V CMR 75c SUN RES OR AVM STYLE 2463 80C 600 V CMR 75c SUN RES OR AVM STYLE 2463 80C 600 V CMR 75c SUN RES OR AVM STYLE 2463 80C 600 V CMR SOLD STANDARD	Shield		Shielded		Oil Resistance		Yes	
MaterialHigh-density Polyethylene (HLIPE)Minimum Bend RadiusMoving: 3.22in Fixed: 2.42inSample Print LegendMOTIONFLEX ETHERNET CAT6A SF/UTP TP (4-PAIR AWG24) E319350 c(UL) CMX OUTDOWN CUTTOR CMR 75C SUN RES OR AWM STYLE 2463 80C 600 V OIL RES IN Res OR AWM STYLE 2463 80C 600 V OIL RES IN Res OR AWM STYLE 2463 80C 600 V OIL RES IN Res OR AWM STYLE 2463 80C 600 V OIL RES IN Res OR AWM STYLE 2463 80C 600 V OIL RES IN Res OR AWM STYLE 2463 80C 600 V OIL RES IN Res OR AWM STYLE 2463 80C 600 V OIL RES IN Res OR AWM STYLE 2463 80C 600 V OIL RES IN Res OR AWM STYLE 2463 80C 600 V OIL RES IN Res OR AWM STYLE 2463 80C 600 V OIL RES IN Resistance (1-100 MHz)Limpedance (1-100 MHz) $100 \Omega 1 - 100 \text{ MHz}$ UL Classification(cultus) TYPE CMX Outdoor/CMR: (cultus) TYPE CMX Outdoor/CMR: (cul	Drain		No		Flame Retardant		11	
Minimum Bend RadiusFixed: $2.42\ln$ Fixed: $2.42\ln$, , , , ,				MOTIONFLEX ETHERNET CAT6A SF/UTP TPE (4-PAIR AWG24) E319350 c(UL) CMX OUTDOOR CMR 75C SUN RES OR AWM STYLE 2463 80C 600 V OIL RES II RoHS < Date Code YYWW>	
			Fixed: 2.42in					
Impedance (1-100 MHz) $100 \Omega 1 - 100 \text{ MHz}$ UL Classification(cULus) TYPE CMX Outdoor/CMR; (cURus) TYICMGCapacitance $17.2 \text{ pF/ft} @ 1\text{MHz}; \text{ Nominal}$ Approvals**cULus, uURus, CE, RoHSResistance, Max. 24.5Ω DC per 1000ft Attenuation Crosstalk Ratio, Far End (ACRF) $1 \le f \le 500 \text{ MHz}: 27.8 - 20 \text{ LOG}(f)/100) \text{ dB MIN}$ Dielectric Withstanding, Min. 2000V RMS Insertion Loss $1 \le f \le 500 \text{ MHz}: 1.82 \sqrt{(f)} + 0.0091(f) + 0.25 \sqrt{(g)} \text{ dB MIN}$ Return Loss $1 \le f < 10 \text{ MHz}: 20 + 5 \text{ LOG}(f)/30 \text{ dB MIN}$ Power Sum Attenuation to Crosstalk Ratio, Far End (PSACRF)Near End Crosstalk (NEXT) $1 \le f \le 500 \text{ MHz}: 44.3 - 15 \text{ LOG}(f/100) \text{ dB MIN}$ $1 \le f \le 500 \text{ MHz}: 44.3 - 15 \text{ LOG}(f/100) \text{ dB MIN}$ Power Sum Near End Crosstalk (PSNEXT) $1 \le f \le 500 \text{ MHz}: 42.3 - 15 \text{ LOG}(f/100) \text{ dB MIN}$ Cross SectionTCL $1 \le f \le 500 \text{ MHz}: 35 - 20 \text{ LOG}(f) \text{ dB MIN}$ Cross Section	Capled Core Diameter		0.256 in					
The pediance (1-100 MHz) OL Cassination OL Cassinati				Electrical Characteris	stics (for 100 meter	rs of cable)	I	
Resistance, Max. $24.5 \Omega\text{DC}\text{per}1000\text{ft} \qquad \qquad$	Impedance (1-100 MHz)		100 Ω 1 – 100 MHz		UL Classification		CMG	
Resistance, Max. 24.5 ft DC per 1000ft Far End (ACRF) 1 ≤ f ≤ 500 MHz: 27.8 - 20 LOG(f/100) dB MIN Dielectric Withstanding, Min. 2000V RMS Insertion Loss 1 ≤ f ≤ 500 MHz: 1.82 √(f) + 0.0091(f) + 0.25√ dB MIN dB MAX Return Loss 1 ≤ f < 10 MHz: 20 + 5 LOG(f) dB MIN 10 ≤ f < 20 MHz: 25 dB MIN 20 ≤ f ≤ 500 MHz: 25 - 7.0 LOG(f/20) dB MIN Power Sum Attenuation to Crosstalk Ratio, Far End (PSACRF) Near End Crosstalk (NEXT) 1 ≤ f ≤ 500 MHz: 44.3 - 15 LOG(f/100) dB MIN Crosstalk (PSNEXT) 1 ≤ f ≤ 500 MHz: 30 - 10 LOG(f/100) dB MIN TCL 1 ≤ f ≤ 30 MHz: 35 - 20 LOG(f) dB MIN Cross Section Velocity Of Propagation 0.67 Delay 4 ≤ f ≤ 500 MHz: 534 + 36/√(f ns MAX	Capacitance		17.2 pF/ft @ 1MHz; Nominal		Approvals**		cULus, uURus,CE, RoHS	
Min. 2000V NNS Insertion Loss dB MAX Return Loss 1 ≤ f < 10 MHz: 20 + 5 LOG(f) dB MIN 10 ≤ f < 20 MHz: 25 dB MIN 20 ≤ f ≤ 500 MHz: 25 - 7.0 LOG(f /20) dB MIN 20 ≤ f ≤ 500 MHz: 25 - 7.0 LOG(f /20) dB MIN 20 ≤ f ≤ 500 MHz: 44.3 - 15 LOG(f /100) dB MIN 20 ≤ f ≤ 500 MHz: 42.3 - 15 LOG(f /100) dB MIN 20 ≤ f ≤ 500 MHz: 30 - 10 LOG(f /100) dB MIN 20 ≤ f ≤ 250 MHz: 30 - 10 LOG(f /100) dB MIN 20 ≤ f ≤ 250 MHz: 30 - 10 LOG(f /100) dB MIN 20 ≤ f ≤ 500 MHz: 35 - 20 LOG(f /100) dB MIN 20 € f ≤ 500 MHz: 534 + 36/√(f ns MAX Cross Section	Resistance, Max.		24.5 Ω DC per 1000ft				1 ≤ f ≤ 500 MHz: 27.8 - 20 LOG(f /100) dB MIN	
Return Loss 10 ≤ f < 20 MHz: 25 dB MIN 20 ≤ f ≤ 500 MHz: 25 - 7.0 LOG(f/20) dB MIN Crosstalk Ratio, Far End (PSACRF) 1 ≤ f ≤ 500 MHz: 24.8 - 20 LOG(f/100) dB MIN (PSACRF) Near End Crosstalk (NEXT) 1 ≤ f ≤ 500 MHz: 44.3 - 15 LOG(f/100) dB MIN (PSACRF) 1 ≤ f ≤ 500 MHz: 42.3 - 15 LOG(f/100) dB MIN (PSACRF) Power Sum Near End Crosstalk (PSNEXT) 1 ≤ f ≤ 500 MHz: 30 - 10 LOG(f/100) dB MIN (PSACRF) 1 ≤ f ≤ 500 MHz: 30 - 10 LOG(f/100) dB MIN (PSACRF) TCL 1 ≤ f ≤ 250 MHz: 30 - 10 LOG(f/100) dB MIN (PSACRF) Cross Section ELTCTL 1 ≤ f ≤ 30 MHz: 35 - 20 LOG(f) dB MIN (PSACRF) Cross Section Delay 4 ≤ f ≤ 500 MHz: 534 + 36/√(f ns MAX)	3,		2000V RMS		Insertion Loss		$1 \le f \le 500 \text{ MHz: } 1.82 \sqrt{(f) + 0.0091(f) + 0.25/\sqrt{(f)}}$ dB MAX	
(NEXT) $1 \le f \le 500 \text{ MHz}$: $44.3 - 15 \text{ LOG}(f/100) \text{ dB MIN}$ Power Sum Near End Crosstalk (PSNEXT) $1 \le f \le 500 \text{ MHz}$: $42.3 - 15 \text{ LOG}(f/100) \text{ dB MIN}$ TCL $1 \le f \le 250 \text{ MHz}$: $30 - 10 \text{ LOG}(f/100) \text{ dB MIN}$ ELTCTL $1 \le f \le 30 \text{ MHz}$: $35 - 20 \text{ LOG}(f) \text{ dB MIN}$ Velocity Of Propagation 0.67 Delay $4 \le f \le 500 \text{ MHz}$: $534 + 36/\sqrt{f} \text{ ns MAX}$	Return Loss		10 ≤ f < 20 MHz: 25 dB MIN		Crosstalk Ratio, Far End		1 ≤ f ≤ 500 MHz: 24.8 - 20 LOG(f /100) dB MIN	
Crosstalk (PSNEXT) $1 \le f \le 500 \text{ MHz: } 42.3 - 15 \text{ LOG}(f/100) \text{ dB MIN}$ TCL $1 \le f \le 250 \text{ MHz: } 30 - 10 \text{ LOG}(f/100) \text{ dB MIN}$ ELTCTL $1 \le f \le 30 \text{ MHz: } 35 - 20 \text{ LOG}(f) \text{ dB MIN}$ Velocity Of Propagation 0.67 Delay $4 \le f \le 500 \text{ MHz: } 534 + 36/\sqrt{f} \text{ ns MAX}$			1 ≤ f ≤ 500 MHz: 44.3 - 15 LOG(f /100) dB MIN		Cross Section		800	
ELTCTL $1 \le f \le 30 \text{ MHz: } 35 - 20 \text{ LOG}(f) \text{ dB MIN}$ Cross SectionVelocity Of Propagation 0.67 Delay $4 \le f \le 500 \text{ MHz: } 534 + 36/\sqrt{(f \text{ ns MAX})}$			$1 \le f \le 250 \text{ MHz: } 30 - 10 \text{ LOG}(f/100) \text{ dB MIN}$ $1 \le f \le 30 \text{ MHz: } 35 - 20 \text{ LOG}(f) \text{ dB MIN}$					
Velocity Of Propagation 0.67 Delay $4 \le f \le 500 \text{ MHz: } 534 + 36/\sqrt{f} \text{ ns MAX}$	TCL							
Delay $4 \le f \le 500 \text{ MHz: } 534 + 36/\sqrt{(f \text{ ns MAX})}$	ELTCTL							
	Velocity Of Propagation							
Delay Skew 1 ≤ f ≤ 500 MHz: <45ns/100m	Delay		$4 \le f \le 500 \text{ MHz}$: $534 + 36/\sqrt{(f \text{ ns MAX})}$					
, ,	Delay Skew		1 ≤ f ≤ 500 MHz: <45ns/100m					

^{*} 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 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
- 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



