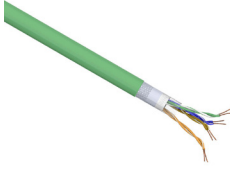
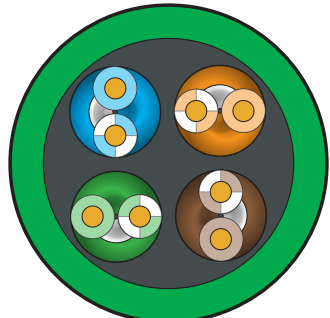


Cat5e Industrial Ethernet Continuous Flexing



H82839-1 Cable Specifications						
	Part Number	Wire/Cable Type	Flexibility	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price Per Foot
	H82839-1	Cat5e industrial Ethernet	Continuous flexing	20	0.02	\$1.79
Physical Properties						
Conductor Gauge		26 AWG	Conductor Stranding		19-stranded bare copper	
Conductor Material		Bare copper	Conductor Insulation Wall Thickness		0.009 in, nominal	
Conductor Assembly		4 twisted pairs	Bare Conductor Diameter		0.020 in, nominal	
Color Code	Pair 1	Blue, White/Blue	Insulated Conductor Diameter		0.038 in, nominal	
	Pair 2	Orange, White/Orange	Twisted Conductor Diameter		N/A	
	Pair 3	Green, White/Green	Overall Cable Diameter		0.260 in, nominal	
	Pair 4	Brown, White/Brown	Jacket Color		Green	
Voltage Rating		30V	Jacket Thickness		0.030 in, nominal	
Temperature Rating		-40 to 80 °C (-40 to 176 °F)	Jacket Material		PUR	
Plenum		No	Sunlight Resistant		No	
Shield		Overall aluminum foil and braid	Oil Resistance		Yes	
Drain		No	Flame Retardant		Yes	
Conductor Insulation Material		Polyolefin	Sample Print Legend		HELUKAT 100S ECO INDUSTRIAL ETHERNET SF/UTP 4x2x0.15mm2 (LITZE) / 82839 * E170315 RU AWM 20963 80C 30V * 0011179447 CE HG (SEQUENTIAL FOOTAGE)	
Minimum Bend Radius		Moving: 2.08in Fixed: 1.30in				
Electrical Characteristics (for 100 meters of cable)						
Impedance		100 Ω ± 15 Ω	UL Classification		AWM Style 20963	
Capacitance		14.6 pF/ft	Approvals**		UR, CE, RoHs, Halogen-free, EAC	
Resistance, Max.		38.1 Ω DC per 1000ft	Attenuation Crosstalk Ratio, Far End (ACRF)		1 ≤ f ≤ 100 MHz: 64 - 20 LOG10 (f/100) dB MIN	
Dielectric Withstanding, Min.		500V RMS	Insertion Loss		1 ≤ f ≤ 100 MHz: 2,866 x √f + 0.0333 x (f) + 0.3/√f dB MAX	
Return Loss		1 ≤ f < 10 MHz: 20 + 5 LOG10 (f) dB MIN 10 ≤ f < 20 MHz: 25 dB MIN 20 ≤ f ≤ 100 MHz: 25 - 8,6 LOG10 (f/20) dB MIN	Power Sum Attenuation to Crosstalk Ratio, Far End (PSACRF)		1 ≤ f ≤ 100 MHz: 61 - 20 LOG10 (f/100) dB MIN	
Near End Crosstalk (NEXT)		1 ≤ f ≤ 100 MHz: 65,3 - 15 LOG10 (f/100) dB MIN	Cross Section			
Power Sum Near End Crosstalk (PSNEXT)		1 ≤ f ≤ 100 MHz: 62,3 - 15 LOG10 (f/100) dB MIN				
TCL		N/A				
ELTCTL		N/A				
Velocity of Propagation		0.67				
Delay		4 ≤ f ≤ 100 MHz: 534 + 36/√f ns Max				
Delay Skew		4 ≤ f ≤ 100 MHz: Max 45ns				

* 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 Ethernet 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.