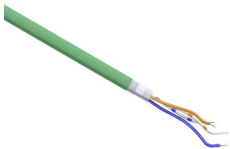
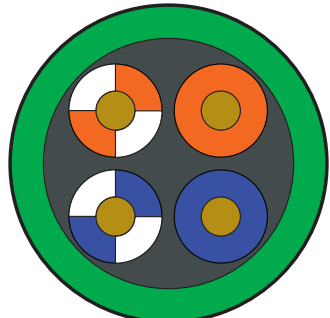


Cat5e Industrial Ethernet Continuous Flexing



H82838-1 Cable Specifications							
		Part Number	Wire/Cable Type	Flexibility	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price Per Foot
		H82838-1	Cat5e industrial Ethernet	Continuous flexing	20	0.01	\$1.13
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		1 star quad		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	N/A		Overall Cable Diameter		0.189 in, nominal	
	Pair 4	N/A		Jacket Color		Green	
Voltage Rating		30V		Jacket Thickness		0.027 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 tinned braid		Oil Resistance		Yes	
Drain		No		Flame Retardant		Yes	
Conductor Insulation Material		Polyolefin		Sample Print Legend		(SEQUENTIAL FOOTAGE) HELUKAT 100S ECO INDUSTRIAL ETHERNET SF/UTP 4x1x0,15mm2 (LITZE) / 82838 * E170315 RU AWM 20963 80C 30V * 015816448368 CE DH	
Minimum Bend Radius		Moving: 1.51 Fixed: 0.95in					
Electrical Characteristics (for 100 meters of cable)							
Impedance		100 Ω ± 15 Ω		UL Classification		AWM Style 20963	
Capacitance		15.5 pF/ft		Approvals**		UR, RoHS, Halogen-free, EAC	
Resistance, Max.		42.7 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.