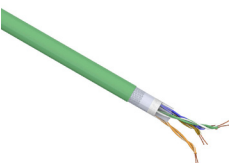
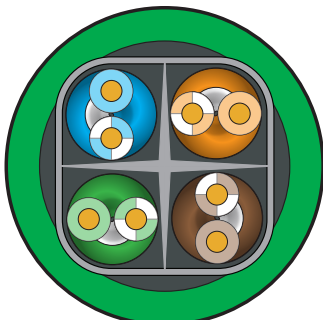


Cat6 Industrial Ethernet



H805655-1 Cable Specifications							
		Part Number	Wire/Cable Type	Flexibility	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price Per Foot
		H805655-1	Cat6 industrial Ethernet	Semi-flexible	20	0.03	\$2.66
Physical Properties							
Conductor Gauge		24 AWG		Conductor Stranding		Solid 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		0.039 in, nominal	
	Pair 2	Orange, White/Orange		Twisted Conductor Diameter		N/A	
	Pair 3	Green, White/Green		Overall Cable Diameter		0.315 in, nominal	
	Pair 4	Brown, White/Brown		Jacket Color		Green	
Voltage Rating		300V		Jacket Thickness		0.030 in, nominal	
Temperature Rating		-40 to 80 °C (-40 to 176 °F)		Jacket Material		PVC	
Plenum		No		Sunlight Resistant		No	
Shield		Overall aluminum foil and braid		Oil Resistance		Yes	
Drain		No		Flame Retardant		Yes	
Conductor Insulation Material		Polyethylene		Sample Print Legend		<metermarking>m HELUKAT® 250IND Industrial Ethernet SF/UTP 4x2xAWG24/1 PVC / 805655 * c(UL)us E312184 CMG 75°C FT4 0158<production lot nr.> <CE-Logo <HELU date>	
Minimum Bend Radius		Moving: 2.52in Fixed: 1.58in					
Electrical Characteristics (for 100 meters of cable)							
Impedance		100 Ω ± 15 Ω 1 to 100 MHz 100 Ω ± 20 Ω 101 to 250 MHz		UL Classification		(cULus) Type CMG	
Capacitance		21.9 pF/ft		Approvals**		cULus, CSA, CE, RoHS, Halogen-free	
Resistance, Max.		29 Ω DC per 1000ft		Attenuation Crosstalk Ratio, Far End (ACRF)		1 ≤ f ≤ 250 MHz: 68 - 20 LOG10 (f/100) dB MIN	
Dielectric Withstanding, Min.		1500V RMS		Insertion Loss		1 ≤ f ≤ 500 MHz: 1,82 x √f + 0.0169 x (f) + 0.25/√f dB MAX	
Return Loss		1 ≤ f < 10 MHz: 20 + 5 LOG10 (f) dB MIN 10 ≤ f < 20 MHz: 25 dB MIN 20 ≤ f ≤ 250 MHz: 25 - 7 LOG10 (f/20) dB MIN		Power Sum Attenuation to Crosstalk Ratio, Far End (PSACRF)		1 ≤ f ≤ 250 MHz: 65 - 20 LOG10 (f/100) dB MIN	
Near End Crosstalk (NEXT)		1 ≤ f ≤ 250 MHz: 75,3 - 15 LOG10 (f/100) dB MIN		Cross Section			
Power Sum Near End Crosstalk (PSNEXT)		1 ≤ f ≤ 250 MHz: 72,3 - 15 LOG10 (f/100) dB MIN					
TCL		N/A					
ELTCTL		N/A					
Velocity of Propagation		0.62					
Delay		4 ≤ f ≤ 250 MHz: 534 + 36/√f ns Max					
Delay Skew		4 ≤ f ≤ 250 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.