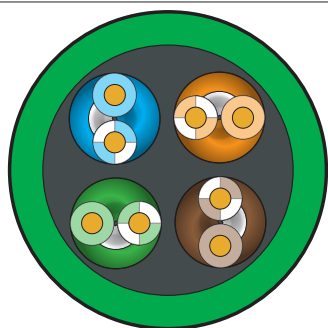


Cat6a Industrial Ethernet


HELUKABEL®
H805704-1 Cable Specifications

		Part Number	Wire/Cable Type	Flexibility	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price Per Foot
		H805704-1	Cat6a industrial Ethernet	Flexible	20	0.03	\$3.85
Physical Properties							
Conductor Gauge		24 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		0.024 in, nominal	
Color Code	Pair 1	Blue, White		Insulated Conductor Diameter		0.050 in, nominal	
	Pair 2	Orange, White		Twisted Conductor Diameter		N/A	
	Pair 3	Green, White		Overall Cable Diameter		0.343 in, nominal	
	Pair 4	Brown, White		Jacket Color		Green	
Voltage Rating		1000V		Jacket Thickness		0.027 in, nominal	
Temperature Rating		-10 to 70 °C (14 to 158 °F)		Jacket Material		PVC	
Plenum		No		Sunlight Resistant		No	
Shield		Individual aluminum foil with overall aluminum foil and tinned copper braid		Oil Resistance		Yes	
Drain		No		Flame Retardant		Yes	
Conductor Insulation Material		Foam Polyethylene		Sample Print Legend		(SEQUENTIAL FOOTAGE) HELUKAT 500S INDUSTRIAL ETHERNET SF/FTP 4x2xAWG24/7 PVC 500MHz / 805704 * c(UL)us E312184 CM 75C 015813018168 DF CE	
Minimum Bend Radius		Moving: 2.74in Fixed: 1.72in					
Electrical Characteristics (for 100 meters of cable)							
Impedance		100 Ω ± 15 Ω		UL Classification		(cULus) Type CM	
Capacitance		15.2 pF/ft		Approvals**		cULus, CSA, CE, RoHS	
Resistance, Max.		26.7 Ω DC per 1000ft		Attenuation Crosstalk Ratio, Far End (ACRF)		1 ≤ f ≤ 500 MHz: 68 - 20 LOG10 (f/100) dB MIN	
Dielectric Withstanding, Min.		3000V RMS		Insertion Loss		1 ≤ f ≤ 500 MHz: 2,73 x √f + 0.01365 x (f) + 0.375/√f dB MAX	
Return Loss		1 ≤ f < 10 MHz: 20 + 5 LOG10 (f) dB MIN 10 ≤ f < 20 MHz: 25 dB MIN 20 ≤ f ≤ 500 MHz: 25 - 8,6 LOG10 (f/20) dB MIN		Power Sum Attenuation to Crosstalk Ratio, Far End (PSACRF)		1 ≤ f ≤ 500 MHz: 65 - 20 LOG10 (f/100) dB MIN	
Near End Crosstalk (NEXT)		1 ≤ f ≤ 500 MHz: 75,3 - 15 LOG10 (f/100) dB MIN		Cross Section			
Power Sum Near End Crosstalk (PSNEXT)		1 ≤ f ≤ 500 MHz: 72,3 - 15 LOG10 (f/100) dB MIN					
TCL		N/A					
ELTCTL		N/A					
Velocity of Propagation		0.75					
Delay		4 ≤ f ≤ 500 MHz: 534 + 36/√f ns Max					
Delay Skew		4 ≤ f ≤ 500 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.