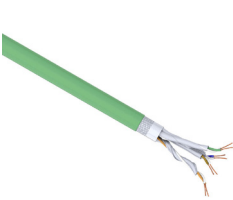
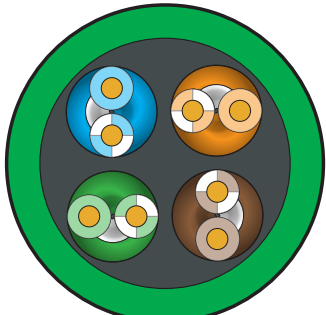


Cat6a Industrial Ethernet



H803693-1 Cable Specifications

		Part Number	Wire/Cable Type	Flexibility	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price Per Foot
		H803693-1	Cat6a industrial Ethernet	Flexible	20	0.03	\$-6gld:
Physical Properties							
Conductor Gauge		22 AWG		Conductor Stranding		Solid bare copper	
Conductor Material		Bare copper		Conductor Insulation Wall Thickness		0.018 in, nominal	
Conductor Assembly		4 twisted pairs		Bare Conductor Diameter		0.025 in, nominal	
Color Code	Pair 1	Blue, White		Insulated Conductor Diameter		0.061 in, nominal	
	Pair 2	Orange, White		Twisted Conductor Diameter		N/A	
	Pair 3	Green, White		Overall Cable Diameter		0.378 in, nominal	
	Pair 4	Brown, White		Jacket Color		Green	
Voltage Rating		300V		Jacket Thickness		0.027 in, nominal	
Temperature Rating		-40 to 80 °C (-40 to 176 °F)		Jacket Material		PVC	
Plenum		No		Sunlight Resistant		No	
Shield		Individual aluminized polyester foil with overall aluminized polyester foil and tinned copper braid		Oil Resistance		Yes	
Drain		Yes		Flame Retardant		Yes	
Conductor Insulation Material		Foam Polyethylene		Sample Print Legend <metermarking>m HELUKABEL® INDUSTRIAL ETHERNET STANDARD CABLE SK TP S/FTP 4x2xAWG22/1 CAT6A c(UL)us CMG FT4 E312184 FR ICE60332-3 OIL RES SUN RES ART.NR.803693 0158<production lot nr.> <CE-Logo> <HELU date>			
Minimum Bend Radius		1.51in					
Electrical Characteristics (for 100 meters of cable)							
Impedance		100 Ω ± 15 Ω		UL Classification		(cULus) Type CMG	
Capacitance		21.9 pF/ft		Approvals**		cULus, CSA, RoHS, CE, EAC, CC-Link-IE	
Resistance, Max.		17.2 Ω DC per 1000ft		Attenuation Crosstalk Ratio, Far End (ACRF)		1 ≤ f ≤ 500 MHz: 68 - 20 LOG10 (f/100) dB MIN	
Dielectric Withstanding, Min.		2000V RMS		Insertion Loss		1 ≤ f ≤ 500 MHz: 1,82 x √f + 0.0091 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 ≤ 500 MHz: 25 - 7 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		0.76					
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.