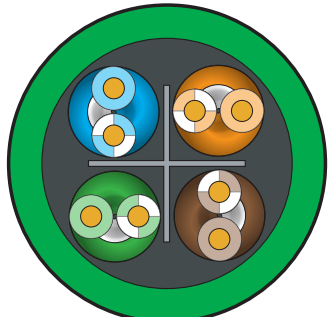


Cat6a Industrial Ethernet



H805548-1 Cable Specifications

H805548-1 Cable Specifications						
	Part Number	Wire/Cable Type	Flexibility	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price Per Foot
	H805548-1	Cat6a industrial Ethernet	Flexible	20	0.02	\$3.45
Physical Properties						
Conductor Gauge		26 AWG	Conductor Stranding		7-stranded tinned copper	
Conductor Material		Tinned copper	Conductor Insulation Wall Thickness		0.009 in, nominal	
Conductor Assembly		4 twisted pairs	Bare Conductor Diameter		0.019 in, nominal	
Color Code	Pair 1	Blue, White	Insulated Conductor Diameter		0.037 in, nominal	
	Pair 2	Orange, White	Twisted Conductor Diameter		N/A	
	Pair 3	Green, White	Overall Cable Diameter		0.260 in, nominal	
	Pair 4	Brown, White	Jacket Color		Green	
Voltage Rating		300V	Jacket Thickness		0.028 in, nominal	
Temperature Rating		-10 to 70 °C (14 to 158 °F)	Jacket Material		PUR	
Plenum		No	Sunlight Resistant		No	
Shield		Overall aluminum foil and tinned copper braid	Oil Resistance		Yes	
Drain		No	Flame Retardant		Yes	
Conductor Insulation Material		Foam Polyethylene	Sample Print Legend		<metermarking>m HELUKAT® 500 Industrial Ethernet SF/FTP 4x2xAWG26-100 PUR 500MHz Kat. 6A / 805548 c(UL)us E312184 CMX 75°C or <Logo c(UR)us> AWM 21576 80°C 1000V I A/B FT2 0158<production lot nr.> <CE-Logo> <HELU date>	
Minimum Bend Radius		Moving: 2.08in Fixed: 1.30in				
Electrical Characteristics (for 100 meters of cable)						
Impedance		100 Ω ± 15 Ω 1 to 100 MHz 100 Ω ± 20 Ω 101 to 500 MHz	UL Classification		(cULus) Type CMX or AWM Style 21576	
Capacitance		15.2 pF/ft	Approvals**		cULus, cURus, CE, RoHS, Halogen-free	
Resistance, Max.		45.8 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: 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		0.76				
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.