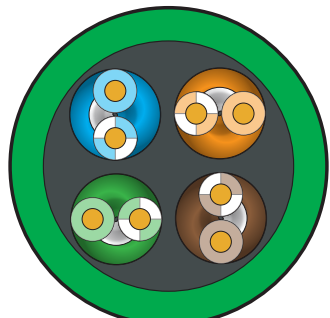


Cat7 Industrial Ethernet



H805614-1 Cable Specifications

		Part Number	Wire/Cable Type	Flexibility	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price Per Foot
		H805614-1	Cat7 industrial Ethernet	Flexible	20	0.03	\$-6glo:
Physical Properties							
Conductor Gauge		24 AWG		Conductor Stranding		7-stranded tinned copper	
Conductor Material		Tinned copper		Conductor Insulation Wall Thickness		0.015 in, nominal	
Conductor Assembly		4 twisted pairs		Bare Conductor Diameter		0.024 in, nominal	
Color Code	Pair 1	Blue, White		Insulated Conductor Diameter		0.054 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		600V		Jacket Thickness		0.030 in, nominal	
Temperature Rating		-30 to 70 °C (-22 to 158 °F)		Jacket Material		PUR	
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		<metermarking>m HELUKAT® 600S Industrial Ethernet SF/FTP 4x2xAWG24/7 PUR 600 MHz / 805614_ * _E312184-058 c(UL)us CMX 75°C or <Logo c(UR)us> AWM 20940 I A/B 80°C 600V FT2_ * 0158<production lot no.> <CE-Logo> <HELU date>	
Minimum Bend Radius		Moving: 2.74in Fixed: 1.72in					
Electrical Characteristics (for 100 meters of cable)							
Impedance		100 Ω ± 15 Ω 1 to 100 MHz 100 Ω ± 20 Ω 101 to 600 MHz		UL Classification		(cULus) Type CMX or AWM Style 20940	
Capacitance		n/a		Approvals**		cULus, cURuc, CE, RoHS, Halogen-free, CC-Link IE	
Resistance, Max.		26.7 Ω DC per 1000ft		Attenuation Crosstalk Ratio, Far End (ACRF)		1 ≤ f ≤ 600 MHz: 94 - 20 LOG10 (f/100) dB MIN	
Dielectric Withstanding, Min.		2000V RMS		Insertion Loss		1 ≤ f ≤ 600 MHz: 2,7 x √f + 0.015 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 ≤ 600 MHz: 25 - 8,6 LOG10 (f/20) dB MIN		Power Sum Attenuation to Crosstalk Ratio, Far End (PSACRF)		1 ≤ f ≤ 600 MHz: 91 - 20 LOG10 (f/100) dB MIN	
Near End Crosstalk (NEXT)		1 ≤ f ≤ 600 MHz: 102,4 - 15 LOG10 (f/100) dB MIN		Cross Section			
Power Sum Near End Crosstalk (PSNEXT)		1 ≤ f ≤ 600 MHz: 99,4 - 15 LOG10 (f/100) dB MIN					
TCL		N/A					
ELTCTL		N/A					
Velocity of Propagation		0.74					
Delay		4 ≤ f ≤ 600 MHz: 534 + 36/√f ns Max					
Delay Skew		4 ≤ f ≤ 600 MHz: Max 25ns					

* 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.