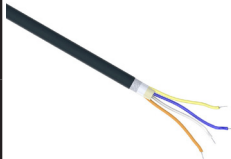
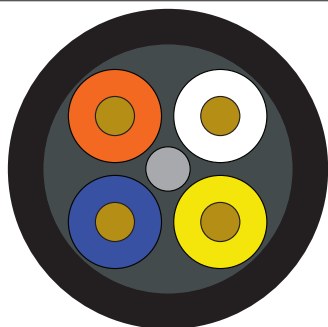




H802293-1 Cable Specifications

		Part Number	Wire/Cable Type	Flexibility	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price Per Foot
		H802293-1	Profinet	Flexible	20	0.02	\$3.93
Physical Properties							
Conductor Gauge		22 AWG		Conductor Stranding		7-stranded tinned copper	
Conductor Material		Tinned copper		Conductor Insulation Wall Thickness		0.015 in, nominal	
Conductor Assembly		1 star quad		Bare Conductor Diameter		0.030 in, nominal	
Color Code	Pair 1	White, Blue		Insulated Conductor Diameter		0.060 in, nominal	
	Pair 2	Yellow, Orange		Twisted Conductor Diameter		N/A	
	Pair 3	N/A		Overall Cable Diameter		0.256 in, nominal	
	Pair 4	N/A		Jacket Color		Black	
Voltage Rating		300V		Jacket Thickness		0.030 in, nominal	
Temperature Rating		-40 to 105 °C (-40 to 221 °F)		Jacket Material		cross-linked Flame-Retardent-Non-Corrosive (X-FRNC)	
Plenum		No		Sunlight Resistant		No	
Shield		Overall aluminized polyester foil and tinned copper braid		Oil Resistance		Yes	
Drain		No		Flame Retardant		Yes	
Conductor Insulation Material		Cross linked polyethylene (XLPE)		Sample Print Legend		HELUKABEL INDUSTRIAL ETHERNET FLEXIBLE CABLE * PROFINET 105 °C CAT 5 PLUS Oil res. * E170315 UL AWM 21281 300V/80 °C * 00610000"XXXX" Art.Nr. 802293 * "month/year" CE	
Minimum Bend Radius		Moving: 2.05in Fixed: 1.28in					
Electrical Characteristics (for 100 meters of cable)							
Impedance		100 Ω ± 15 Ω 1 to 100 MHz		UL Classification		AWM Style 21281	
Capacitance		15.8 pF/ft		Approvals**		UL, CE, RoHS, EAC	
Resistance, Max.		18.3 Ω DC per 1000ft		Attenuation Crosstalk Ratio, Far End (ACRF)		1 ≤ f ≤ 100 MHz: 64 - 20 LOG10 (f/100) dB MIN	
Dielectric Withstanding, Min.		2000V RMS		Insertion Loss		1 ≤ f ≤ 100 MHz: 2,866 x √f + 0.0333 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 ≤ 100 MHz: 25 - 8,6 LOG10 (f/20) dB MIN		Power Sum Attenuation to Crosstalk Ratio, Far End (PSACRF)		1 ≤ f ≤ 100 MHz: 61 - 20 LOG10 (f/100) dB MIN	
Near End Crosstalk (NEXT)		1 ≤ f ≤ 100 MHz: 65,3 - 15 LOG10 (f/100) dB MIN		Cross Section			
Power Sum Near End Crosstalk (PSNEXT)		1 ≤ f ≤ 100 MHz: 62,3 - 15 LOG10 (f/100) dB MIN					
TCL		N/A					
ELTCTL		N/A					
Velocity of Propagation		0.69					
Delay		4 ≤ f ≤ 100 MHz: 534 + 36/√f ns Max					
Delay Skew		4 ≤ f ≤ 100 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.