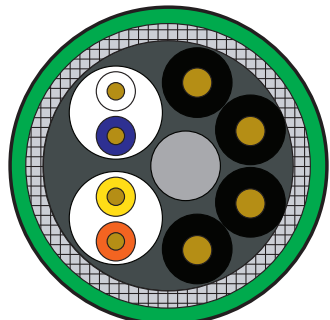


Profinet Type B

(Includes Power Conductors)



H801651-1 Cable Specifications							
		Part Number	Wire/Cable Type	Flexibility	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price Per Foot
		H801651-1	Profinet Type B	Flexible	20	0.06	\$4.13
Physical Properties							
Conductor Gauge		22 AWG Profinet conductors 16 AWG Power conductors		Conductor Stranding		7-stranded bare copper	
Conductor Material		Bare copper		Conductor Insulation Wall Thickness		0.015 in, nominal	
Conductor Assembly		(2) shielded twisted pairs, (4) unshielded conductors		Bare Conductor Diameter		0.030 in, nominal	
Color Code	Pair 1	Blue, White		Insulated Conductor Diameter		0.060 in, nominal	
	Pair 2	Yellow, Orange		Twisted Conductor Diameter		N/A	
	Pair 3	N/A		Overall Cable Diameter		0.406 in, nominal	
	Pair 4	N/A		Jacket Color		Green	
Voltage Rating		150V		Jacket Thickness		0.030 in, nominal	
Temperature Rating		-40 to 70 °C (-40 to 158 °F)		Jacket Material		Flame-Retardant-Non-Corrosive (FRNC)	
Plenum		No		Sunlight Resistant		No	
Shield		Individual aluminized polyester foil and tinned copper braid over pairs		Oil Resistance		Yes	
Drain		No		Flame Retardant		Yes	
Conductor Insulation Material		Polyethylene		Sample Print Legend		<metermarking>m HELUKAT® PROFinet type B hybrid 2x2xAWG22/7 + 4x1,5_(Litze) FRNC 100_MHz / 801651 E170315 <Logo c(UR)us> AWM 22482 80°C 600V 0158<production lot no.> <CE-Logo> <HELU date>	
Minimum Bend Radius		Moving: 3.25in Fixed: 2.03in					
Electrical Characteristics (for 100 meters of cable)							
Impedance		100 Ω ± 15 Ω 1 to 100 MHz		UL Classification		UL Style 21282	
Capacitance		15.8 pF/ft		Approvals**		cULus, CE, RoHS, Halogen-free	
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		0.74					
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.