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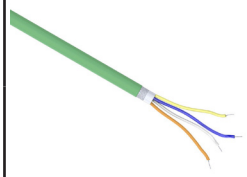
Profinet Type C Continuous Flexing

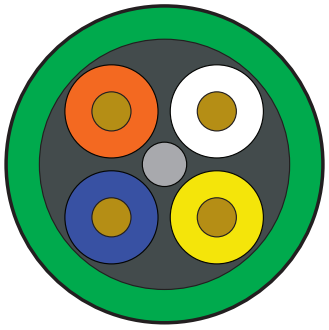
HELUKABEL®

H802186-1 Cable Specifications



Part Number	Wire/Cable Type	Flexibility	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price Per Foot
H802186-1	Profinet Type C	Continuous flexing	20	0.02	$--6glj:

Physical Properties				
Conductor Gauge		22 AWG	Conductor Stranding	19-stranded tinned copper
Conductor Material		Tinned copper	Conductor Insulation Wall Thickness	0.015 in, nominal
Conductor Assembly		1 star quad	Bare Conductor Diameter	0.031 in, nominal
Color Code	Pair 1	White, Blue	Insulated Conductor Diameter	0.061 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	Green
Voltage Rating		300V	Jacket Thickness	0.040 in, nominal
Temperature Rating		-40 to 80 °C (-40 to 176 °F)	Jacket Material	PUR
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		Polyethylene	Sample Print Legend	<Metrierung>m HELUKABEL® PROFInet Torsion © 2X2X0,75mm (Litze) * 22AWG E170315 <Logo cRUus> AWM 20549 80°C 300V I A/B FT2 802186 0158<Fert.Nr.> <CE-Zeichen> <HELU Datum>
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 20549
Capacitance	15.8 pF/ft	Approvals**	cURus, CE, RoHS
Resistance, Max.	18.1 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 $\sqrt{f}$ + 0.0333 x (f) + 0.3/$\sqrt{f}$ 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/$\sqrt{f}$ 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.