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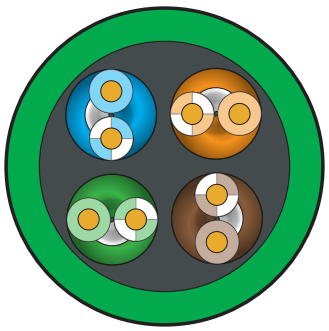
Cat7a Industrial Ethernet

HELUKABEL®

H805680-1 Cable Specifications

Part Number	Wire/Cable Type	Flexibility	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price Per Foot
H805680-1	Cat7a industrial Ethernet	Semi-flexible	20	0.03	$-6glv:

Physical Properties					
Conductor Gauge		23 AWG	**Conductor Stranding**	Solid bare copper
Conductor Material		Bare copper	**Conductor Insulation Wall Thickness**	0.016 in, nominal
Conductor Assembly		4 twisted pairs	**Bare Conductor Diameter**	0.023 in, nominal
Color Code	**Pair 1**	Blue, White	**Insulated Conductor Diameter**	0.055 in, nominal
	Pair 2	Orange, White	**Twisted Conductor Diameter**	N/A
	Pair 3	Green, White	**Overall Cable Diameter**	0.307 in, nominal
	Pair 4	Brown, White	**Jacket Color**	Green
Voltage Rating		300V	**Jacket Thickness**	0.028 in, nominal
Temperature Rating		-40 to 80 °C (-40 to 176 °F)	**Jacket Material**	polyurethane (PUR)
Plenum		No	**Sunlight Resistant**	No
Shield		Individual aluminum foil and overall aluminum-lined copper braid	**Oil Resistance**	Yes
Drain		No	**Flame Retardant**	Yes
Conductor Insulation Material		Foam Polyethylene	**Sample Print Legend**	<Metermarkierung> HELUKAT® 1200IND 4x2xAWG23 S/FTP PUR 1200 MHz ART.NR.805680 E170315 cULus AWM STYLE 20549 AWM I A/B 300V FT2 <Fertigungslos> <Monat/Jahr> RoHS
Minimum Bend Radius		Moving: 2.46in Fixed: 1.54in		

Electrical Characteristics (for 100 meters of cable)			
Impedance	100 Ω ± 15 Ω 1 to 100 MHz 100 Ω ± 20 Ω 101 to 1200 MHz	**UL Classification**	AWM Style 20549
Capacitance	13.1 pF/ft	**Approvals****	cULus, CE, RoHS, Halogen-free
Resistance, Max.	22.7 Ω DC per 1000ft	**Attenuation Crosstalk Ratio, Far End (ACRF)**	1 ≤ f ≤ 1000 MHz: 95,3 - 20 LOG10 (f/100) dB MIN
Dielectric Withstanding, Min.	700V RMS	**Insertion Loss**	1 ≤ f ≤ 1000 MHz: 1,8 x $\sqrt{f}$ + 0.01 x (f) + 0.2/$\sqrt{f}$ dB MAX
Return Loss	1 ≤ f < 10 MHz: 20 + 5 LOG10 (f) dB MIN 10 ≤ f < 20 MHz: 25 dB MIN 20 ≤ f ≤ 600 MHz: 25 - 7 LOG10 (f/20) dB MIN 600 ≤ f ≤ 1000 MHz: 17,3 - 10 LOG10 (f/600) dB MIN	**Power Sum Attenuation to Crosstalk Ratio, Far End (PSACRF)**	1 ≤ f ≤ 1000 MHz: 92,3 - 20 LOG10 (f/100) dB MIN
Near End Crosstalk (NEXT)	1 ≤ f ≤ 1000 MHz: 105,4 - 15 LOG10 (f/100) dB MIN	**Cross Section**	
Power Sum Near End Crosstalk (PSNEXT)	1 ≤ f ≤ 1000 MHz: 102,4 - 15 LOG10 (f/100) dB MIN		
TCL	N/A		
ELTCTL	N/A		
Velocity of Propagation	0.76		
Delay	4 ≤ f ≤ 1000 MHz: 534 + 36/$\sqrt{f}$ ns Max		
Delay Skew	4 ≤ f ≤ 1000 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.