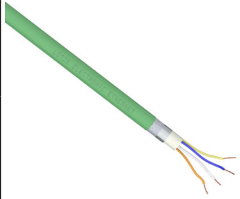
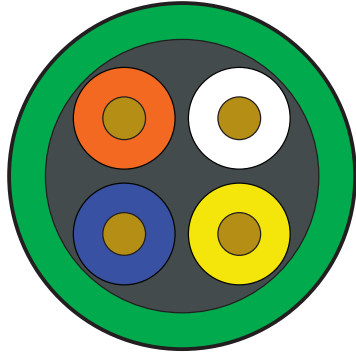


Profinet Type B Cable



SYSTEMATIC TECHNOLOGY

A104307-1 Cable Specifications						
	Part Number	Wire/Cable Type	Flexibility	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
		A104307-1	Profinet Type B	Flexible	20	0.04
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	0.029 in; nominal		
Color Code	Pair 1	White, Blue	Insulated Conductor Diameter	0.059 in; nominal		
	Pair 2	Yellow, Orange	Twisted Conductor Diameter	0.118 in; nominal		
	Pair 3	N/A	Overall Cable Diameter	0.256 in; nominal		
	Pair 4	N/A	Jacket Color	Green		
Voltage Rating	600V		Jacket Thickness	0.039 in; nominal		
Temperature Rating	-40 to 80 °C (-40 to 176 °F)		Jacket Material	PVC		
Plenum	No		Sunlight Resistant	Yes		
Shield	Overall Aluminized Polyester Foil And Tinned Copper Braid		Oil Resistance	Yes		
Drain	No		Flame Retardant	Yes		
Conductor Insulation Material	Special Polyolefin		Sample Print Legend	<LÜTZE logo> ELECTRONIC ETHERNET (C) PVC 104307 (2x2xAWG22/7) PROFINET TYPE B Cat 5e E336436 (UL) TYPE PLTC FT4 or c(UL)us TYPE CMG 75°C or <logo cURus> AWM STYLE 20201 60°C 600V I/II A/B FT1 RoHS <date YYWW> UKCA CE- 44 <metermarking>m		
Minimum Bend Radius	1.54in					
Cabled Core Diameter	0.182 in					
Electrical Characteristics (for 100 meters of cable)						
Impedance (1-100 MHz)	100 Ω 1 – 100 MHz		UL Classification	(cULus) TYPE CMG/PLTC or AWM Style 20201; (cURus) Class I and II, Div. 2; Class 1 Div. 2		
Capacitance	15.2 pF/ft @ 1MHz; Nominal		Approvals**	cULus, cURus, CE, RoHS		
Resistance, Max.	29.5 Ω DC per 1000ft		Attenuation Crosstalk Ratio, Far End (ACRF)	$1 \leq f \leq 100$ MHz: 23.8 - 20 LOG(f/100) dB MIN		
Dielectric Withstanding, Min.	1500V RMS		Insertion Loss	$1 \leq f \leq 100$ MHz: $1.967 \sqrt{f} + 0.023(f) + 0.050/\sqrt{f}$ dB MAX		
Return Loss	$1 \leq f < 10$ MHz: 20 + 5 LOG(f) dB MIN $10 \leq f < 20$ MHz: 25 dB MIN $20 \leq f \leq 100$ MHz: 25 - 7.0 LOG(f/20) dB MIN		Power Sum Attenuation to Crosstalk Ratio, Far End (PSACRF)	$1 \leq f \leq 100$ MHz: 20.8 - 20 LOG(f/100) dB MIN		
Near End Crosstalk (NEXT)	$1 \leq f \leq 100$ MHz: 35.3 - 15 LOG(f/100) dB MIN		Cross Section			
Power Sum Near End Crosstalk (PSNEXT)	$1 \leq f \leq 100$ MHz: 32.3 - 15 LOG(f/100) dB MIN					
TCL	$1 \leq f \leq 100$ MHz: 30 - 10 LOG(f/100) dB MIN					
ELTCTL	$1 \leq f \leq 30$ MHz: 35 - 20 LOG(f) dB MIN					
Velocity Of Propagation	65%					
Delay	$4 \leq f \leq 100$ MHz: 534 + 36/\sqrt{f} ns MAX					
Delay Skew	$1 \leq f \leq 100$ MHz: <20ns/100m					

* 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 Continuous Flexing IE 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.