1-800-633-0405



DataMax® Ethernet Cables

Quabbin DataMax Ethernet Cable

The Quabbin DataMax[®] Category network cables are proudly made in the USA and are available in Cat5e, 6, 6a or 6e. These cables are offered in 26AWG or 24AWG stranded tinned copper or bare solid copper in shielded or unshielded constructions. Designed to be round and smooth, Quabbin DataMax[®] Category network cables are compatible with most popular plugs for quick termination and easy installation.

When it comes to network cable, flexibility can mean many different things. The first and most obvious is the ease with which it bends. The importance behind having a pliable cable has to do with installation and cabinet routing. Flexibility allows easy manipulation between devices while increasing the durability, which is important when considering a lifetime of "moves & changes" that can occur in a dynamic network environment. Durability is paramount in allowing these changes to take place without compromising the cable.

The Quabbin DataMax[®] Category network cables exceed the requirements of ANSI/TIA-568-C.2, are compatible with Cat 5e and 5 hardware, and are suitable for applications from 10 Base-T to 1000 Base-T (Gigabit Ethernet).

Also available are Quabbin DataMax® MIL-spec Cat6 cables with black low smoke PVC jacket and special conductor insulations colors.

* DataMax is a registered trademark of Quabbin Wire and Cable Corporation. ** EtherNet/IP is a trademark of ODVA, Inc.

Features

- Available in Category 5e, 6, 6e, and 6a
- In compliance with TIA 568-C.2 and TIA 1005

For the latest prices, please check AutomationDirect.com.

- Designed for use in EtherNet/IP systems **
- 4 twisted pairs
- Unshielded or overall foil shields
- UL Type CM and UL AWM Style 2463 (80°C, 600V)
- Some cables available with conductor color code for MIL spec applications
- Cut to length in 1 foot increments
- Low 20 foot minimum length
- Made in the USA



Click on the thumbnail or go to https://www.automationdirect.com/VID-WD-0016 for a short introduction on our cut to length cable





1-800-633-0405 For the latest prices, please check Quabbin Ethernet Cable - Cat6/6a/6e

Ethernet Cat6/6a/6e Cable Selection											
Part Number	Wiring Standard	Jacket Color	Shield	No. of Pairs	Pair Colors	Description	Approximate Weight (Ib/ft)	Minimum Cut Length (ft)*	Price per foot		
<u>Q2034-1</u>	6a	Black	Shielded	4	Pair 1: Natural & Orange Pair 2: Gray & Brown Pair 3: Natural & Green Pair 4: Gray & Blue	shielded, 4 twisted pairs, 28 AWG, 7-stranded, tinned copper, foamed FEP conductor insulation material, PVC jacket, black, cut to length.	0.017	20	\$1.16		
<u>Q2045-1</u>	6					shielded, 4 twisted pairs, 28 AWG, 7-stranded, tinned copper, foamed FEP conductor insulation material, PVC jacket, black, cut to length.	0.017		\$1.10		
<u>Q2056-1</u>	6a					shielded, 4 twisted pairs, 26 AWG, 7-stranded, tinned copper, foamed FEP conductor insulation material, PVC jacket, black, cut to length.	0.022		\$1.18		
<u>Q2067-1</u>	6					shielded, 4 twisted pairs, 26 AWG, 7-stranded, tinned copper, foamed FEP conductor insulation material, PVC jacket, black, cut to length.	0.022		\$0.99		
<u>Q2206-1</u>	Cat6e	Blue	Unshielded		Pair 1 - Blue/White & Blue Pair 2 - Orange/White & Orange Pair 3 - Green/White & Green Pair 4 - Brown/White & Brown	unshielded, 4 twisted pairs, 24 AWG, 7-stranded, tinned copper, polyethylene conductor insulation material, PVC jacket, blue, cut to length.	0.024		\$0.49		
<u>Q2936-1</u>	Cat6		Shielded			shielded, 4 twisted pairs, 26 AWG, 7-stranded, tinned copper, polyethylene conductor insulation material, PVC jacket, blue, cut to length.	0.025		\$0.72		
<u>Q2948-1</u>	Cat6a					shielded, 4 twisted pairs, 26 AWG, 7-stranded, tinned copper, polyethylene conductor insulation material, PVC jacket, blue, cut to length.	0.025		\$0.76		

*See web store for maximum cut lengths



Please Note: Our prices on Ethernet Cables 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.

Quabbin Ethernet Cable - Cat6e

		Ethernet Cat6e Cable Specifications				
		Physical Properties				
		<u>Q2206-1</u>				
Conductor Gauge and Stranding		24AWG 7/32 stranded tinned copper; 4 twisted pairs				
Assembly		Individual conductors twisted into pairs with PVC Jacket				
Jacket		Blue Polyvinylchloride (PVC)				
Jacket Insulation Thickness		0.024 inch; Nominal				
Shield		No				
Cable Overall Diameter		0.220 inch; Nominal				
Temperature Rati	ing	-20°C to 75°C (-4°F to 167°F)				
Plenum		No				
Sunlight Resistar	nt	No				
Minimum Bend Radius		2.67 inch				
Conductor Insulation		High Density Polyethylene (HDPE)				
	Pair 1	Blue/White & Blue				
Color Code	Pair 2	Orange/White & Orange				
	Pair 3	Green/White & Green				
	Pair 4	Brown/White & Brown				
Bare Conductor Diameter		0.024 inch; Nominal				
Conductor Insulation Thickness		0.007 inch; Nominal				
Insulated Conductor Diameter		0.039 inch; Nominal				
Pair Diameter		0.078 inch; Nominal				
Cabled Core Diameter		0.160 inch; Nominal				
Print Legend		QUABBIN DATAMAX 6E 600 MHZ ENHANCED PATCH CORDP/N xxxx – (UL) TYPE CMR 24 AWG 75C – CSA LL51726 TYPE CMG 60C TIA-568.2-D CAT 6 RoHS (LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)				



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Quabbin Ethernet Cable - Cat6e

Ethe	rnet Cat6e Cable Specifications (continued)
	Electrical Characteristics (for 100 meters of cable)
	<u>Q2206-1</u>
Impedance (1-100 MHz)	100Ω ±15Ω (1-100 MHz)
Capacitance	13.5 pF/ft @ 1MHz; Nominal
Resistance (max)	42.6 Ω DC per 1000ft
Voltage Rating (max)	300V
Dielectric Withstand, Min.	1500V RMS
	$1 \le f < 10 \text{ MHz}$ 20 + 5 LOG(f) dB MIN
Return Loss	10 ≤ <i>f</i> < 20 MHz 25 dB MIN
	$20 \le f \le 500 \text{ MHz}$ 25 - 8.6 LOG($f/20$) dB MINPS
Near End Crosstalk	1 ≤ <i>f</i> ≤ 250 MHz 47.8 - 15 LOG(<i>f</i> /100) dB MIN
(NEXT)	250 < <i>f</i> ≤ 500 MHz 44.3 - 15 LOG(<i>f</i> /100) dB MIN
Power Sum Near End	$1 \le f \le 250 \text{ MHz}$ 45.3 - 15 LOG($f/100$) dB MIN
Crosstalk (PSNEXT)	$250 < f \le 500 \text{ MHz}$ 42.3 - 15 LOG($f/100$) dB MIN
Power Sum Attenuation to Crosstalk Ratio, Far End (PSACRF)	$1 \le f \le 500 \text{ MHz}$ 24.8 - 20 LOG($f/100$) dB MIN
Attenuation Crosstalk Ratio, Far End (ACRF)	$1 \le f \le 500 \text{ MHz}$ 27.8 - 20 LOG($f/100$) dB MIN
Insertion Loss	1 ≤ f ≤ 500 MHz 1.2[1.808 \sqrt{f} + 0.017(f) + 0.2/ \sqrt{f}] dB MAX
Delay	1 ≤ f ≤ 500 MHz 534 + 36/ \sqrt{f} ns MAX
Delay Skew	$1 \le f \le 500 \text{ MHz} \le 45 \text{ ns MAX}$
TCL	1 ≤ <i>f</i> ≤ 500 MHz 30 - 10 LOG(<i>f</i> /100) dB MIN
ELTCTL	$1 \le f \le 30 \text{ MHz}$ 35 - 20 LOG(f) dB MIN
Velocity Of Propagation	0.68
UL Classification	(UL) Type CMR/CMG, (CSA) Type CMG
Agency Approvals	cULus, CSA, RoHS



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