Cat5e Industrial Ethernet

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WIRE & CABLE CO., INC.
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Q5944-1 Cable Specifications

Part Number	Wire/Cable Type	Flexibility	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
Q5944-1	Cat5e industrial Ethernet	Flexible	20	0.03	$0.65

Physical Properties

Conductor Gauge	24 AWG	**Conductor Stranding**	7-Stranded Tinned Copper
Conductor Material	Tinned Copper	**Conductor Insulation Wall Thickness**	0.008 in, nominal
Conductor Assembly	4 twisted pairs	**Bare Conductor Diameter**	0.024 in, nominal
Color Code Pair 1	Blue, White/Blue	**Insulated Conductor Diameter**	0.039 in, nominal
Pair 2	Orange, White/Orange	**Twisted Conductor Diameter**	0.078 in, nominal
Pair 3	Green, White/Green	**Overall Cable Diameter**	0.234 in, nominal
Pair 4	Brown, White/Brown	**Jacket Color**	Black
Voltage Rating	300V	**Jacket Thickness**	0.033 in, nominal
Temperature Rating	-40 to 75 °C (-40 to 167 °F)	**Jacket Material**	PVC
Plenum	No	**Sunlight Resistant**	No
Shield	Unshielded	**Oil Resistance**	No
Drain	No	**Flame Retardant**	No
Conductor Insulation Material	High-density Polyethylene (HDPE)	**Sample Print Legend**	QUABBIN DATAMAX EXTREME TOUGH CAT 5e 350MHZ U/UTP PATCH CABLE P/N 5944 C(UL) US CMX OUTDOOR - CMR 24 AWG 75C SUN RES -- CAT 5e TIA - 568.2-D -- CE RoHS -- (LOT DESIGNATOR)(SEQUENTIAL FOOTAGE)
Minimum Bend Radius	1.00in		
Cabled Core Diameter	0.168 in		

Electrical Characteristics (for 100 meters of cable)

Impedance	100 ± 15 Ω (1 - 350 MHz)	**UL Classification**	NEC (UL) Type CMX, CEC C(UL) Type CMX
Capacitance	13.5 pF/ft @ 1MHz; Nominal	**Approvals****	cULus, CE, RoHS
Resistance, Max.	26.5 Ω DC per 1000ft	**Attenuation Crosstalk Ratio, Far End (ACRF)**	$1 \leq f \leq 350$ MHz: $23.8 - 20 \text{ LOG}(f/100)$ dB MIN
Dielectric Withstanding, Min.	1500V RMS	**Insertion Loss**	$1 \leq f \leq 350$ MHz: $1.2[1.967 \sqrt{f} + 0.023(f) + 0.050/\sqrt{f}]$ dB MAX
Return Loss	$1 \leq f < 10$ MHz: $20 + 5 \text{ LOG}(f)$ dB MIN $10 \leq f < 20$ MHz: 25 dB MIN $20 \leq f \leq 350$ MHz: $25 - 8.6 \text{ LOG}(f/20)$ dB MIN	**Power Sum Attenuation to Crosstalk Ratio, Far End (PSACRF)**	$1 \leq f \leq 350$ MHz: $20.8 - 20 \text{ LOG}(f/100)$ dB MIN
Near End Crosstalk (NEXT)	$1 \leq f \leq 350$ MHz: $35.3 - 15 \text{ LOG}(f/100)$ dB MIN	**Cross Section**	
Power Sum Near End Crosstalk (PSNEXT)	$1 \leq f \leq 350$ MHz: $32.3 - 15 \text{ LOG}(f/100)$ dB MIN		
TCL	N/A		
ELTCTL	N/A		
Velocity of Propagation	0.68		
Delay	$1 \leq f \leq 350$ MHz: $534 + 36/\sqrt{f}$ ns MAX		
Delay Skew	$1 \leq f \leq 350$ MHz: <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**

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CUT TO LENGTH CABLES

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.

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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
- 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

UL RoHS 2002/95/EC MADE IN USA

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for a short introduction on our cut to length cable

MONDAY MINUTE
Cut To Length Wire

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