Q50 ⁻	Q5077-1 4 Shielded Pairs 26AWG Cable Specifications								
Conductors Gauge & Stranding	26AWG 7/34 Stranded Tinned Copper	Insulated Conductor Diameter	0.037 inch; nominal						
Voltage Rating	300V	Twisted Conductor Diameter	0.143 inch; nominal						
Temperature Rating, Max.	75°C (167°F)	Overall Diameter	0.245 inch; nominal						
Temperature Rating, Min.	-40°C (-40°F)	Jacket Color	Teal						
Capacitance, Mutual, Nom.	13.5 pF/ft	Jacket Thickness	0.035 inch; nominal						
Capacitance, Grounded, Nom.	ee, Grounded, Nom. N/A Jacket Material		ZHFR polyurethane						
Dielectric Withstanding, Min.	1500V RMS Sunlight Resistant		No						
D.C. Resistance, Max.	42.6 Ω / 1000ft.	Oil Resistance	Yes						
Shield	Aluminized Polyester Foil Shield (100% Coverage)		NEC (ETL) TYPE CMX						
Drain	N/A	Approvals*	EU CE MARK: MEETS EU DIRECTIVE 2011/65/ EU (RoHS II)						
Conductor Insulation Material	Polyvinyl chloride (PVC)		LO (NOTIS II)						
Conductor Identification	blue-white, orange-white/orange, green-white/green, brown-white/brown		QUABBIN DATAMAX EXTREME HIGH FLEX						
Conductor Insulation Wall Thickness	0.009 inch; nominal	Sample Print Legend	ZERO HALOGEN INDUSTRIAL ETHERNET/IP PATCH CORD CAT 5e SF/UTP P/N C(ETL)US TYPE CMX OIL RES I 26 AWG 75C RoHS						
Bare Conductor Diameter	0.019 inch; nominal		(LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)						

^{*} To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com

Q5077-1 4 Shielded Pairs 26AWG Cable Specifications									
Part Number	Number of Pairs	AWG	Strand	Maximum O.D.(Inches ±10%)	Minimum Installed Bend Radius (inches) ¹	Minimum Cut Length (ft)**	Approximate Weight (lb/ft)	Price per foot	
<u>Q5077-1</u>	4	26	7	0.243 [6.17 mm]	1.0	30	0.0326	\$1.30	

^{**} See web store www.AutomationDirect.com for maximum cut lengths



Q50	Q5082-1 2 Shielded Pairs 26AWG Cable Specifications								
Conductors Gauge & Stranding	26AWG 7/34 Stranded Tinned Copper	Insulated Conductor Diameter	0.037 inch; nominal						
Voltage Rating	300V	Twisted Conductor Diameter	0.120 inch; nominal						
Temperature Rating, Max.	75°C (167°F)	Overall Diameter	0.233 inch; nominal						
Temperature Rating, Min.	-20°C (-4°F)	Jacket Color	Teal						
Capacitance, Mutual, Nom.	13.5 pF/ft	Jacket Thickness	0.046 inch; nominal						
Capacitance, Grounded, Nom.	N/A	Jacket Material	ZHFR polyurethane						
Dielectric Withstanding, Min.	ng, Min. 1500V RMS Sunlight Resistant		No						
D.C. Resistance, Max.	42.6 Ω / 1000ft.	Oil Resistance	Yes						
Shield	38AWG tinned copper braid, aluminized polyester foil shield (100% coverage)		NEC (ETL) TYPE CMX						
Drain	N/A	Approvals*	CEC C (ETL) TYPE CMX EU CE MARK: MEETS EU DIRECTIVE 2011/65/						
Conductor Insulation Material	Polyvinyl chloride (PVC)		EU (RoHS II)						
Conductor Identification	green-white/green, orange-white/orange		QUABBIN DATAMAX EXTREME HIGH FLEX						
Conductor Insulation Wall Thickness	0.009 inch; nominal	Sample Print Legend	ZERO HALOGEN INDUSTRIAL ETHERNET/IP PATCH CORD CAT 5e SF/UTP P/N C(ETL)US TYPE CMX OIL RES I 26 AWG 75C CE RoHS						
Bare Conductor Diameter	0.019 inch; nominal		(LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)						

^{*} To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com

	Q5082-1 2 Shielded Pairs 26AWG Cable Specifications									
Part Number	Number of Pairs	AWG	Strand	Maximum O.D.(Inches ±10%)	Minimum Installed Bend Radius (inches) ¹	Minimum Cut Length (ft)**	Approximate Weight (lb/ft)	Price per foot		
<u>Q5082-1</u>	2	26	7	0.243 [6.17 mm]	1.0	30	0.0285	\$1.38		

^{**} See web store www.AutomationDirect.com for maximum cut lengths



	Q5088-1 4 Shielded Pair	s 26AWG Cable S	Specifications Specifications Specifications Specifications Specifications Specifications Specification Specificat		
Conductors Gauge & Stranding	26AWG 7/34 Stranded Tinned Copper	Insulated Conductor Diameter	0.037 inch; nominal		
Voltage Rating	300V	Twisted Conductor Diameter	0.143 inch; nominal		
Temperature Rating, Max.	75°C (167°F)	Overall Diameter	0.245 inch; nominal		
Temperature Rating, Min.	-40°C (-40°F)	Jacket Color	Teal		
Capacitance, Mutual, Nom.	13.5 pF/ft	Jacket Thickness	0.037 inch; nominal		
Capacitance, Grounded, Nom.	N/A	Jacket Material	Thermoplastic Elastomer (TPE)		
Dielectric Withstanding, Min.	1500V RMS	Sunlight Resistant	No		
D.C. Resistance, Max.	42.6 Ω / 1000ft.	Oil Resistance	Yes		
Shield	38AWG tinned copper braid, aluminized polyester foil shield (100% coverage)		NEC (UL) TYPE CMX Outdoor - CM		
Drain	N/A	Approvals*	CEC C (ÚL) TYPE CMX Outdoor -CM		
Conductor Insulation Material	Polyvinyl chloride (PVC)		EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II)		
Conductor Identification	blue-white/blue, orange-white/orange, green-white/green, brown-white/brown		QUABBIN DATAMAX EXTREME HIGH FLEX INDUSTRIAL ETHERNET/IP PATCH CORD CAT 5e SF/UTP P/N (xxxx)		
Conductor Insulation Wall Thickness	0.009 inch; nominal	Sample Print Legend	U.S. PATENT NO. US 8,487,184 B2 - C(UL)US TYPE CMX OUTDOOR - CM 4PR 26 AWG 75C SUN RES RoHS (LOT DESIGNATOR)		
Bare Conductor Diameter	0.019 inch; nominal		(SEQUENTIAL FOOTAGE)		

^{*} To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com

	Q5088-1 4 Shielded Pairs 26AWG Cable Specifications									
Part Number	Number of Pairs	AWG	Strand	Maximum O.D.(Inches ±10%)	Minimum Installed Bend Radius (inches) ¹	Minimum Cut Length (ft)**	Approximate Weight (lb/ft)	Price per foot		
<u>Q5088-1</u>	4	26	7	0.245 [6.17 mm]	1.0	30	0.0353	\$1.26		

^{**} See web store www.AutomationDirect.com for maximum cut lengths



(25123-1 4 Shielded Pair	s 26AWG Cable	Specifications	
Conductors Gauge & Stranding	26AWG 7/34 Stranded Tinned Copper	Insulated Conductor Diameter	0.036 inch; nominal	
Voltage Rating	300V	Twisted Conductor Diameter	0.072 inch; nominal	
Temperature Rating, Max.	75°C (167°F)	Overall Diameter	0.269 inch; nominal	
Temperature Rating, Min.	-40°C (-40°F)	Jacket Color	Black	
Capacitance, Mutual, Nom.	13.5 pF/ft	Jacket Thickness	0.037 inch; nominal	
Capacitance, Grounded, Nom.	N/A	Jacket Material	ZHFR Polyurethane	
Dielectric Withstanding, Min.	1500V RMS	Sunlight Resistant	No	
D.C. Resistance, Max.	42.6 Ω / 1000ft.	Oil Resistance	IRM 902 OIL, 7 days@100°C	
Shield	38AWG tinned copper braid, aluminized polyester foil shield (100% coverage)	Approvals*	NEC (ETL) Type CMX CEC C (ETL) Type CMX	
Drain	N/A	Арріочаіз	EU CE MARK: Meets EU Directive 2011/65/EU (RoHS II)	
Conductor Insulation Material	Polyvinyl chloride (PVC)		· · ·	
Conductor Identification	blue-white/blue, orange-white/orange, green-white/green, brown-white/brown		QUABBIN DATAMAX EXTREME HIGH FLEX ZERO HAOGEN INDUSTRIAL ETHERNET/IP PATCH CORD CAT 6a SF/UTP	
Conductor Insulation Wall Thickness	0.009 inch; nominal	Sample Print Legend	5123 (QWC 5123C(ETL)US TYPE CMX OIL RES I 26 AWG 75C CM 4PR 26 AWG 75C CE RoHS (LOT DESIGNATOR)	
Bare Conductor Diameter	0.019 inch; nominal		(SEQUENTIAL FOOTAGE)	

^{*} To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at www.AutomationDirect.com

Q5123-1 4 Shielded Pairs 22AWG Cable Specifications								
Part Number	Number of Pairs	AWG	Strand	Maximum O.D.(Inches ±10%)	Minimum Installed Bend Radius (inches) ¹	Minimum Cut Length (ft)**	Approximate Weight (lb/ft)	Price per foot
<u>Q5123-1</u>	4	26	7	0.269 [6.17 mm]	1.0	30	0.0373	<u>\$1.71</u>

^{**} See web store www.AutomationDirect.com for maximum cut lengths





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



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

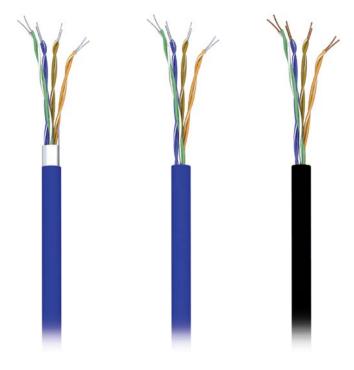




Quabbin Ethernet Cable - Cat5e

	Ethernet Cat5e Cable Selection									
Part Number	Wiring Standard	Minimum Cut Length (ft)*	Shield	No. of Pairs	Pair Colors	Description	Approximate Weight (lb/ft)	Price per foot		
<u>Q2906-1</u>			Shielded			shielded, 4 twisted pairs, 26 AWG, 7-stranded, tinned copper, polyethylene conductor insulation material, PVC jacket, blue, cut to length.	0.022	\$0.54		
<u>Q5506-1</u>	Cat5e	20	Unshielded	4	Pair 1 - Blue/White & Blue Pair 2 - Orange/White & Orange Pair 3 - Green/White & Green Pair 4 - Brown/White & Brown	unshielded, 4 twisted pairs, 26 AWG, 7-stranded, tinned copper, polyethylene conductor insulation material, PVC jacket, blue, cut to length.	0.022	\$0.43		
<u>Q5943-1</u>			onsnieludu			unshielded, 4 twisted pairs, 24 AWG, solid, bare copper, polyethylene conductor insulation material, PVC jacket, black, cut to length.	0.025	\$0.64		

^{*} 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.

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Wires Cords and Cables

Quabbin Ethernet Cable - Cat5e

		Ethernet Cat5e Cable	e Specifications							
			Physical Properties							
		<u>Q2906-1</u>	<u>Q5506-1</u>	<u>Q5943-1</u>						
Conductor Gauge and Stranding		26AWG stranded tinned copper; 4 twisted pairs	24AWG stranded tinned copper; 4 twisted pairs	24AWG solid bare copper; 4 twisted pairs						
Assembly		Indi	ividual conductors twisted into pairs							
Jacket		Blue Polyvinylchloride (PVC)	Blue Polyvinylchloride (PVC)	Black Polyvinylchloride (PVC)						
Jacket Insulatio Thickness	п	0.024 inch; Nominal	0.039 inch; Nominal	0.033 inch; Nominal						
Shield		Aluminized Polyester Foil Shield (Foil In, 100% Coverage) With a 26AWG Tinned Copper Drain	No	ne						
Overall Cable D	iameter	0.222 inch; Nominal	0.215 inch; Nominal	0.230 inch; Nominal						
Temperature Ra	ting	-20°C to 75°C (-4°F to 167°F)	-20°C to 75°C (-4°F to 167°F)	-40°C to 75°C (-40°F to 167°F)						
Plenum										
Sunlight Resista	nnt	No	Yes							
Minimum Bend	Radius	2.22 inch	1 inch	2.30 inch						
Conductor Insul	ation	High Density Polyethelene (HDPE)								
	Pair 1	Blue/White & Blue								
Color Code	Pair 2	Orange/White & Orange								
Color Code	Pair 3	Green/White & Green								
	Pair 4		Brown/White & Brown							
Bare Conductor		0.019 inch; Nominal	0.024 inch; Nominal	0.0215 inch; Nominal						
Conductor Insul	ation Thickness	0.010 inch; Nominal	0.007 inch; Nominal	0.008 inch; Nominal						
Insulated Condu	ıctor Diameter	0.039 inch; Nominal	0.038 inch	; Nominal						
Pair Diameter		0.078 inch; Nominal	0.076 inch	; Nominal						
Cabled Core Diameter		0.162 inch; No	minal	0.164 inch; Nominal						
Print Legend		QUABBIN DATAMAX 5e SCREENED 100 OHM PATCH CORD ISO 11801 P/N xxxx TYPE CMR C(UL)US 26 AWG 75C ETL VERIFIED TO TIA- 568.2-D CAT 5e RoHS (LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)	QUABBIN DATAMAX 5E 350 MHZ ISO 11 CMR 24 AWG 75CCSA LL51726 TYP CAT 5eRoHS(LOT DESIGNA	E CMG 60CETL VERIF. TIA-568-C.2						

Quabbin Ethernet Cable - Cat5e

	Ethernet Cat5e Ca	able Specifications (continued)							
	E	Electrical Characteristics (for 100 meters of cable)								
	<u>Q2906-1</u>	<u>Q5506-1</u>	<u>Q5943-1</u>							
Impedance (1–100 MHz)	100Ω ±15Ω, 1 - 100MHz	100Ω ±15Ω, 1 - 350MHz	100Ω ±200Ω, 1 - 200MHz							
Capacitance		13.5 pF/ft Nominal @ 1MHz								
Resistance	42.0 Ω DC, per 1000ft	26.0 Ω DC, per 1000ft	26.2 Ω DC, per 1000ft							
Voltage Rating (max)		300V								
Dielectric Withstand, Min.		1500V RMS								
		$1 \le f < 10 \text{ MHz } 20 + 5 \text{ LOG}(f) \text{ dB MIN}$								
Return Loss	$10 \le f < 20 \text{ MHz } 25 \text{ dB MIN}$									
	$20 \le f \le 200 \text{ MHz } 25 - 8.6 \text{ LOG}(f/20) \text{ dB MIN}$	$20 \le f \le 100 \text{ MHz } 25 - 8.6 \text{ LOG}(f/20) \text{ dB MIN}$	$20 \le f \le 200 \text{ MHz } 25 - 7 \text{ LOG}(f/20) \text{ dB MIN}$							
Near End Crosstalk (NEXT)		$1 \le f \le 200 \text{ MHz } 35.3 - 15 \text{ LOG}(f/100) \text{ dB MIN}$								
Power Sum Near End Crosstalk (PSNEXT)		$1 \le f \le 200 \text{ MHz } 32.3 - 15 \text{ LOG}(f/100) \text{ dB MIN}$								
Power Sum Attenuation to Crosstalk Ratio, Far End (PSACRF)		$1 \le f \le 200 \text{ MHz } 20.8 - 20 \text{ LOG}(f/100) \text{ dB MIN}$								
Attenuation Crosstalk Ratio, Far End (ACRF)		$1 \le f \le 200 \text{ MHz } 23.8 - 20 \text{ LOG}(f/100) \text{ dB MIN}$								
Insertion Loss	1 ≤ f ≤ 100 MHz1.5[1.967 \sqrt{f} + 0.023(f) + 0.050/ \sqrt{f}] dB MAX	$1 \le f \le 100 \text{ MHz } 1.2[1.967\sqrt{f} + 0.023(f) + 0.050/\sqrt{f}] \text{ dB MAX}$	$1 \le f \le 200 \text{ MHz } 1.967 \ \sqrt{f} + 0.023(f) + 0.050/\sqrt{f} \ \text{dB MAX}$							
Delay	1 ≤ f ≤ 100 MHz 534 + 36/ \sqrt{f} ns MAX	1 ≤ f ≤ 100 MHz 534 + 36/ \sqrt{f} ns MAX	1 ≤ f ≤ 200 MHz 534 + 36/ \sqrt{f} ns MAX							
Delay Skew	1 ≤ f < 100) MHz < 25 ns	$1 \le f \le 200 \text{ MHz} < 25 \text{ ns}$							
Velocity Of Propagation		68%								
UL Classification	(UL) Type CMR	(UL) Type CMR, (CSA) Type CMG	(UL) Type CMR, & CMX							
Agency Approval	cULus, ETL, RoHS	UL, CSA, ETL, RoHS	cULus, ETL, RoHS							

NOTE: All testing conducted off the reel.





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