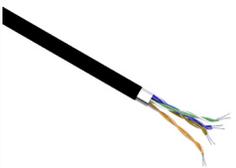
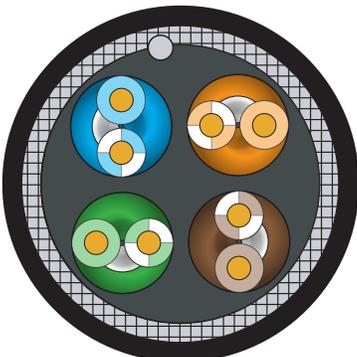


Cat5e Industrial Ethernet



Q5730-1 Cable Specifications						
	Part Number	Wire/Cable Type	Flexibility	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price per foot
	Q5730-1	Cat5e industrial Ethernet	Semi-flexible	20	0.03	\$1.44
Physical Properties						
Conductor Gauge		26 AWG	Conductor Stranding		7-Stranded Tinned Copper	
Conductor Material		Tinned Copper	Conductor Insulation Wall Thickness		0.010 in, nominal	
Conductor Assembly		4 twisted pairs	Bare Conductor Diameter		0.016 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		0.220 in, nominal	
	Pair 4	Brown, White/Brown	Jacket Color		Black	
Voltage Rating		300V	Jacket Thickness		0.010 in, nominal	
Temperature Rating		-40 to 75 °C (-40 to +167 °F)	Jacket Material		polyurethane	
Plenum		No	Sunlight Resistant		Yes	
Shield		Shielded	Oil Resistance		No	
Drain		Yes	Flame Retardant		No	
Conductor Insulation Material		Polyolefin	Sample Print Legend		QUABBIN DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET PATCH CORD CAT 5e SF/UTP P/N xxxx-CE RoHS --(LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)	
Minimum Bend Radius		2.22in				
Cabled Core Diameter		0.149 in				
Electrical Characteristics (for 100 meters of cable)						
Impedance		100 ±15 Ω 1-100 MHz	UL Classification		N/A	
Capacitance		13.5 pF/ft @ 1MHz; Nominal	Approvals**		MEETS EU DIRECTIVE 2011/65/EU (RoHS II)	
Resistance, Max.		42.6 Ω DC, per 1000ft	Attenuation Crosstalk Ratio, Far End (ACRF)		1 ≤ f ≤ 100 MHz: 23.8 - 20 LOG(f/100) dB MIN	
Dielectric Withstanding, Min.		1500V RMS	Insertion Loss		1 ≤ f ≤ 100 MHz: 1.5[1.967√f + 0.023(f) + 0.050/√f] dB MAX	
Return Loss		1 ≤ f < 10 MHz: 20 + 5 LOG(f) dB MIN 10 ≤ f < 20 MHz: 25 dB MIN 20 ≤ f ≤ 100 MHz: 25 - 8.6 LOG(f/20) dB MIN	Power Sum Attenuation to Crosstalk Ratio, Far End (PSACRF)		1 ≤ f ≤ 100 MHz: 20.8 - 20 LOG(f/100) dB MIN	
Near End Crosstalk (NEXT)		1 ≤ f ≤ 100 MHz: 35.3 - 15 LOG(f/100) dB MIN	Cross Section			
Power Sum Near End Crosstalk (PSNEXT)		1 ≤ f ≤ 100 MHz: 32.3 - 15 LOG(f/100) dB MIN				
TCL		N/A				
ELTCTL		N/A				
Velocity of Propagation		0.68				
Delay		1 ≤ f ≤ 100 MHz: 534 + 36/√f				
Delay Skew		1 ≤ f < 100 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



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.



Industrial Ethernet Cable

Quabbin DataMax® Extreme Industrial Ethernet Cable *



Features

- Available in Category 5e and 6/6a
- In compliance with TIA 568-C.2 and TIA 1005
- Designed for use in EtherNet/IP systems **
- 26 AWG & 24AWG stranded or 22 AWG solid
- 2 or 4 twisted pairs
- Unshielded or overall braid and foil shields
- Rugged jacket for excellent chemical, moisture, and flame resistance, and exceptional low temperature flexibility
- UL Type CMX OUTDOOR – CM and UL AWM Style 2463 (80°C, 600V)
- Cut to length in 1 foot increments
- Low 20 foot minimum length
- Made in the USA

* DataMax is a registered trademark of Quabbin Wire and Cable Corporation.

** EtherNet/IP is a trademark of ODVA, Inc.

Many industrial applications expose cables to hazards not present in commercial data cabling installations. Although a cable suited for commercial applications may initially work in a harsh industrial environment, it could quickly fail when used in an industrial applications. While commercial grade cables may have a low initial product cost, downtime due to premature failure can be avoided by using a cable that is specifically designed and tested for industrial applications.

Quabbin DataMax Extreme Industrial Ethernet cable jackets were developed to survive the many industrial hazards that commercial jackets will not.

Furthermore, commercial ethernet cables have a tube jacket surrounding the conductor pairs with room within for the pairs to move around and even untwist in flexing applications resulting in early mechanical or electrical failure of the cable.

DataMax Extreme continuous flexing cable jackets are pressure extruded over the cable core, effectively "locking" the conductor pairs in place. This type of jacket construction provides very stable electrical performance, even when the cable is impacted, bent, or repeatedly flexed. Pressure extrusion also provides a very smooth, round, and firm jacket profile that is crush resistant and ideal for obtaining a reliable termination and seal when installing connectors.

Quabbin has performed extensive testing on their pressure extruded jacketed DataMax Extreme Continuous Flexing Industrial Ethernet cables. Samples are subjected to 10 million cycles in a flex testing device that simulates an unsupported bend, simulating a situation the cable would be exposed to on a robotic arm. The unsupported bend test is much more abusive than a C-Track or Tick-tock test, both of which add protection to the cable by supporting the bend. Quabbin DataMax Extreme Industrial Ethernet cable provides superior design and construction that will withstand the rigors of continuous flexing applications and the harsh environments found in industrial installations. Quabbin DataMax Extreme Continuous Flexing Industrial Ethernet cable performs above industry standards, thereby reducing downtime and increasing productivity.

DataMax Extreme Industrial Ethernet cables fully comply with TIA 568-C.2 and TIA 1005 industrial communication specifications and are designed for use in EtherNet/IP systems.

Description

AutomationDirect offers Quabbin DataMax Extreme Industrial Ethernet cable in 2 and 4 pair, unshielded and shielded constructions. Conductors are color coded high density polyethylene insulation. Shielded constructions include both a tinned copper braid shield and aluminized polyester foil overall shield. All constructions feature a rugged jacket with excellent moisture, chemical, UV and weathering resistance, exceptional low-temperature flexibility, and good flame and fire resistance. Some are specifically designed and constructed for continuous flexing applications. The DataMax Extreme Continuous Flexing cables have been tested for a minimum of 1 million cycles (10x cable O.D. minimum radius), a minimum of 10 million cycles (20x cable O.D. minimum radius), and a minimum of 3 million cycles torsion test. Agency approvals include UL Type CMX OUTDOOR - CM, and UL AWM Style 2463 (80°C, 600V).

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

