

# Continuous Flexing IE Cable - Cat6/6a - Shielded

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

\* 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](http://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) <sup>†</sup> | Minimum Cut Length (ft)** | Approximate Weight (lb/ft) | Price per foot |
|  |                 |     |        |                             |                                                     |                           |                            |                |
| <b>Q5077-1</b>                                                                      | 4               | 26  | 7      | 0.243 [6.17 mm]             | 1.0                                                 | 30                        | 0.0326                     | \$1.30         |

\*\* See web store [www.AutomationDirect.com](http://www.AutomationDirect.com) for maximum cut lengths



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# Continuous Flexing IE Cable - Cat6/6a - Shielded

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

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| 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) <sup>1</sup> | Minimum Cut Length (ft) <sup>**</sup> | Approximate Weight (lb/ft) | Price per foot |
|  |                 |     |        |                             |                                                     |                                       |                            |                |
| <b>Q5082-1</b>                                                                      | 2               | 26  | 7      | 0.243 [6.17 mm]             | 1.0                                                 | 30                                    | 0.0285                     | \$1.38         |

\*\* See web store [www.AutomationDirect.com](http://www.AutomationDirect.com) for maximum cut lengths



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# Continuous Flexing IE Cable - Cat6/6a - Shielded

## Q5088-1 4 Shielded Pairs 26AWG Cable Specifications

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

\* 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](http://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) <sup>1</sup> | Minimum Cut Length (ft)** | Approximate Weight (lb/ft) | Price per foot |
|-------------------------------------------------------------------------------------|-----------------|-----|--------|-----------------------------|-----------------------------------------------------|---------------------------|----------------------------|----------------|
|  |                 |     |        |                             |                                                     |                           |                            |                |
| <b>Q5088-1</b>                                                                      | 4               | 26  | 7      | 0.245 [6.17 mm]             | 1.0                                                 | 30                        | 0.0353                     | \$1.26         |

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# Continuous Flexing IE Cable - Cat6/6a - Shielded

## Q5123-1 4 Shielded Pairs 26AWG Cable Specifications

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

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## 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) <sup>1</sup> | Minimum Cut Length (ft) <sup>**</sup> | Approximate Weight (lb/ft) | Price per foot         |
|-------------------------------------------------------------------------------------|-----------------|-----|--------|-----------------------------|-----------------------------------------------------|---------------------------------------|----------------------------|------------------------|
|  |                 |     |        |                             |                                                     |                                       |                            |                        |
| <a href="#">Q5123-1</a>                                                             | 4               | 26  | 7      | 0.269 [6.17 mm]             | 1.0                                                 | 30                                    | 0.0373                     | <a href="#">\$1.71</a> |

\*\* See web store [www.AutomationDirect.com](http://www.AutomationDirect.com) for maximum cut lengths



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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 6 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



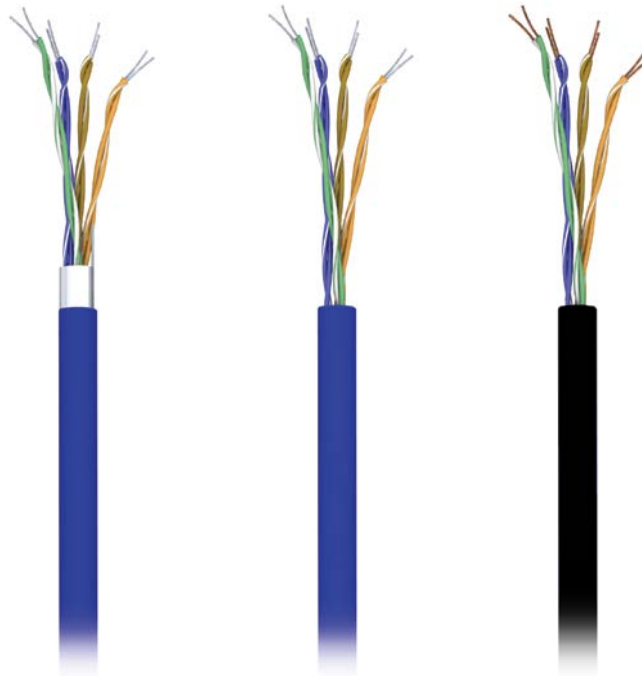
Click on the thumbnail or go to  
<https://www.automationdirect.com/VID-WD-0016>  
 for a short introduction on our cut to length cable



# 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 |
| <a href="#"><u>Q2906-1</u></a> | Cat5e           | 20                        | Shielded   | 4            | Pair 1 - Blue/White & Blue<br>Pair 2 - Orange/White & Orange<br>Pair 3 - Green/White & Green<br>Pair 4 - Brown/White & Brown | shielded, 4 twisted pairs, 26 AWG, 7-stranded, tinned copper, polyethylene conductor insulation material, PVC jacket, blue, cut to length.   | 0.022                      | \$0.54         |
| <a href="#"><u>Q5506-1</u></a> |                 |                           | Unshielded |              |                                                                                                                              | unshielded, 4 twisted pairs, 26 AWG, 7-stranded, tinned copper, polyethylene conductor insulation material, PVC jacket, blue, cut to length. |                            | \$0.43         |
| <a href="#"><u>Q5943-1</u></a> |                 |                           |            |              |                                                                                                                              | 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



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# Quabbin Ethernet Cable - Cat5e

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

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# Quabbin Ethernet Cable - Cat5e

| Ethernet Cat5e Cable Specifications (continued)            |                                                                                         |                                                                                         |                                                                                    |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                                            | Electrical Characteristics (for 100 meters of cable)                                    |                                                                                         |                                                                                    |
|                                                            | Q2906-1                                                                                 | Q5506-1                                                                                 | Q5943-1                                                                            |
| 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                                                                               |                                                                                         |                                                                                    |
| Return Loss                                                | $1 \leq f < 10 \text{ MHz}$ 20 + 5 LOG(f) dB MIN                                        |                                                                                         |                                                                                    |
|                                                            | $10 \leq f < 20 \text{ MHz}$ 25 dB MIN                                                  |                                                                                         |                                                                                    |
|                                                            | $20 \leq f \leq 200 \text{ MHz}$ 25 - 8.6 LOG(f/20) dB MIN                              | $20 \leq f \leq 100 \text{ MHz}$ 25 - 8.6 LOG(f/20) dB MIN                              | $20 \leq f \leq 200 \text{ MHz}$ 25 - 7 LOG(f/20) dB MIN                           |
| Near End Crosstalk (NEXT)                                  | $1 \leq f \leq 200 \text{ MHz}$ 35.3 - 15 LOG(f/100) dB MIN                             |                                                                                         |                                                                                    |
| Power Sum Near End Crosstalk (PSNEXT)                      | $1 \leq f \leq 200 \text{ MHz}$ 32.3 - 15 LOG(f/100) dB MIN                             |                                                                                         |                                                                                    |
| Power Sum Attenuation to Crosstalk Ratio, Far End (PSACRF) | $1 \leq f \leq 200 \text{ MHz}$ 20.8 - 20 LOG(f/100) dB MIN                             |                                                                                         |                                                                                    |
| Attenuation Crosstalk Ratio, Far End (ACRF)                | $1 \leq f \leq 200 \text{ MHz}$ 23.8 - 20 LOG(f/100) dB MIN                             |                                                                                         |                                                                                    |
| Insertion Loss                                             | $1 \leq f \leq 100 \text{ MHz}$ $1.5[1.967\sqrt{f} + 0.023(f) + 0.050/\sqrt{f}]$ dB MAX | $1 \leq f \leq 100 \text{ MHz}$ $1.2[1.967\sqrt{f} + 0.023(f) + 0.050/\sqrt{f}]$ dB MAX | $1 \leq f \leq 200 \text{ MHz}$ $1.967\sqrt{f} + 0.023(f) + 0.050/\sqrt{f}$ dB MAX |
| Delay                                                      | $1 \leq f \leq 100 \text{ MHz}$ $534 + 36/\sqrt{f}$ ns MAX                              | $1 \leq f \leq 100 \text{ MHz}$ $534 + 36/\sqrt{f}$ ns MAX                              | $1 \leq f \leq 200 \text{ MHz}$ $534 + 36/\sqrt{f}$ ns MAX                         |
| Delay Skew                                                 | $1 \leq f < 100 \text{ MHz}$ < 25 ns                                                    |                                                                                         | $1 \leq f \leq 200 \text{ MHz}$ < 25 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.



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.