



# 2xCat5e + 6 Fiber Plenum

Part No.: 609900676RYN2XCAT5EP4

## Applications:

This document establishes the specifications for a plenum two category 5e and a six fiber cable used for low voltage communication applications

## Construction Details (Cat5e)

No. 24 AWG (.51mm) solid bare copper conductor insulated with FEP. Two colored mated insulated conductors twisted together to form a pair and four pairs assembled to form a core. The core is jacketed with a low smoke, flame retardant PVC.

Jacket colors: Blue, White

Surface Print: DATAMEG TIA-568C.2 CATEGORY 5E  
24AWG 4UTP MADE IN USA

## Electricals (Cat5e)

Per TIA-568C.2

## \*Fiber Construction Details:

Tight Buffered Fiber

Dimension: 900µm, nominal.

Tight buffered fiber color code: Blue, Orange, Green, Brown, Slate, White

Cable strength: Water swellable aramid yarns are pulled in with the tight-buffered fibers under the outer jacket.

Jacket Color: Yellow

No surface Print

## Overall Construction Details:

Construction Type: Two Cat5e and one 6 fiber cabled with an overall PVC jacket.

Jacket Material: Plenum Polymer

Nominal Jacket Thickness: 0.030 in

Jacket Color: **Brown**

Nominal Overall Dimension: 0.492

Surface Print: 2 X CAT5e + 6 - SM OS2 Indoor + Sequential Footage Marking

## Fiber Optic Mechanical & Environmental:

Max. Tensile Load for Installing: 1405/315lbf

Max. Tensile Load, Long-Term: 455N/102lbf

Crush Resistance (EIA 455-41): 100 N/cm

Impact Resistance (EIA 455-25): 25 Impacts

Flexing, ±90° (EIA 455-104): 25 Cycles

## Technical Details:

Temperature Rating

Storage: -2°C to +60°C

Installation: 0°C to +50°C

Operation: -2°C to +60°C

Min. Bend Radius, Unloaded: 10 x O.D.

Min. Bend Radius, Loaded: 20 x O.D.

## Standards:

- NonListed

## Preparation for Shipment:

The cable shall be packaged to preclude the inducement of damage due to handling and transportation, and shall be in accordance with the best commercial practices available. Shipping containers shall be constructed as to eliminate any possible damage to the cables due to shipment.



MADE IN THE USA

Issue Date: 04/16  
Revision: 0

All warranty information can be viewed at [WWW.CCTCABLE.COM](http://WWW.CCTCABLE.COM).

This product is RoHS compliant to directive 2002/95/EC .

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| Fiber Type                            | Single mode*                                |
|---------------------------------------|---|
| Maximum Attenuation @ 1310/1550nm     | 0.40/0.30 dB/km                             |
| Cladding Diameter                     | 125.0 ± 0.7 μm                              |
| Maximum Core/Clad Concentricity Error | 0.5 μm                                      |
| Maximum Cladding Non-circularity      | 0.7%  |
| Primary Coating Diameter              | 245 ± 7 μm                                  |
| Cabled Cutoff Wavelength              | <1260nm                                     |
| Mode Field Diameter                   | 9.0 ± 0.4μm @1310nm<br>10.1 ± 0.5μm @1550nm |
| Temperature Dependence                | ≤0.05dB/km (-60°C to 85°C)                  |
| Zero Dispersion Slope                 | 0.090ps/nm <sup>2</sup> -km                 |
| Maximum PMD Link Design Value         | 0.06ps/√km                                  |
| Group Refractive Index @ 1310/1550    | 1.467 / 1.468                               |
| Proof Test                            | 100 kpsi                                    |

Your signature constitutes that you have read and agreed to this specification sheet and upon confirmation of your order; this item may be non-cancelable and non-returnable.

Signature: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Date: \_\_\_\_\_

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