



# 16/2 + 6 Fiber Plenum

Part No.: 609900676ERYN-2C16AWG

## Applications:

This document establishes the specifications for a plenum 16awg two conductor cable and a six fiber cable used for low voltage communication applications

## Construction Details: 2C16awg

Conductor: 16AWG stranded bare copper  
Nominal Wall: 0.012 in.  
Nominal Conductor Diameter: 0.082 in.  
Material: Plenum Polymer  
Colors: Red, Black

## \*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: 16AWG 2 Conductor cable and one 6 fiber with water swellable aramid yarns are pulled in and jacketed in a siamese construction.  
Material: Plenum Polymer  
Nominal Jacket Thickness: 0.030 in  
Jacket Color: Per customer requirement  
Nominal Overall Dimensions: Minor (16/2): 0.224 in.  
Minor (Fiber): 0.250 in.  
Major: 0.499 in.  
Surface Print: CCT 6F SM-OS2 + 2/C 16AWG  
INDOOR/OUTDOOR + Sequential  
Footage Marking

## Fiber Optic Mechanical & Environmental:

Max. Tensile Load for Installing: 1405N/315lbf  
Max. Tensile Load, Long-Term: 455N/102lbf  
Crush Resistance: 100 N/cm  
Impact Resistance: 25 Impacts min.  
Flexing, ±90°: 25 Cycles min.

## 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: 05/18  
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 .

Customer Service: 866-905-6744

Fax: 845-651-3564

[www.CCTCABLE.com](http://www.CCTCABLE.com)



## Part No.: 609900676ERYN-2C16AWG

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 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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