

# 12-2 Unshielded + 2 Fiber Siamese Plenum

ETL listed for guaranteed performance  
Made in the USA

Part No.: 40-3300212SAO-2C12

## Applications:

This document establishes the specifications for a plenum rated two conductor unshielded cable and a two fiber cable in a siamese construction used for low voltage communication applications

## Construction Details (12/2):

Number of Conductors: 2/C  
 Conductor: 12AWG Stranded Bare Copper  
 Insulation Material: Remguard Plenum Polymer  
 Nominal Insulation Thickness: 0.012 in.  
 Nominal Insulation Diameter: 0.117 in.  
 Color Code: Black, Natural  
 Shield: None  
 Drain: None

## Electricals (12/2):

Suggested Working Voltage: 300 Volts, rms.

## \*Fiber Construction Details:

Tight Buffered Fiber  
 Dimension: 900µm, nominal.  
 Tight buffered fiber color code: 1-blue, 1-orange  
 Cable strength: Water swellable aramid yarns are pulled in with the tight-buffered fibers under the outer jacket.

## Overall Construction Details:

Construction Type: 12AWG 2 Conductor cable and 2 fiber with water swellable aramid yarns are pulled in and jacketed in a siamese construction.

Jacket Material: Remguard Plenum Polymer  
 Nominal Jacket Thickness: 0.030 in  
 Jacket Color: Aqua UV Resistant

Nominal Overall Dimensions: Minor (12/2): 0.270 in.  
 Minor (Fiber): 0.170 in.  
 Major: 0.465 in.

Surface Print: 3122598 2/C 12AWG + 2—50/125 OM3  
 10GIG INDOOR/OUTDOOR CMP/OFNP  
 C(ETL)US FT6 + Sequential Footage Marking

Issue Date: 03/16  
 Revision: 3

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

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

1751 State RTE. 17A STE #1 Florida, NY 10921

Customer Service: 800-431-3864

Fax: 845-651-4160

Website: [www.ree.com](http://www.ree.com)

## 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.

Nominal Weight: 68 lbs. / 1,000 ft.

DC Resistance @ 20°C 1.62 ohms/1M'

Nominal Capacitance Cond—Cond 55.3 pF/FT

## Standards:

- NEC Article 800
- CMP/OFNP Rating

## Codes & Listings:

- C(ETL)US CMP/OFNP FT6

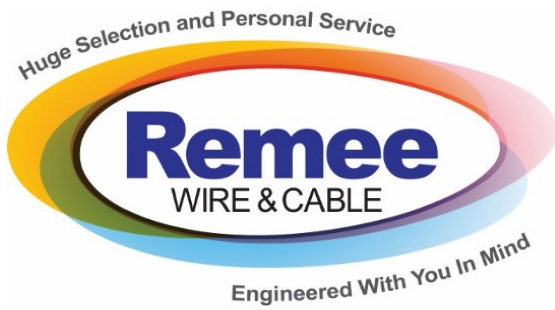
## Preparation for Shipment:

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.



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Fiber Type	Multimode*
Maximum Attenuation @ 850/1300nm	3.0 /1.0 dB/km**
LED Performance (Overfilled Launch Bandwidth)	1500/500MHz-km@850/1300
Laser EMB Performance	2000/500MHz-km@850/1300
Core Diameter, nominal	50 ± 2.5 µm
Cladding Diameter	125.0 ± 1.0 µm
Primary Coating Diameter	242 ± 5 µm
Cladding Non-circularity	<0.7%
Core-Clad Concentricity	≤1.0 µm
Zero Dispersion Wavelength	1295-1340nm
Maximum Zero Dispersion Slope	0.105 ps/nm <sup>2</sup> -km
Numerical Aperture	0.20 ± .015
Group Refractive Index @ 850/1300nm	1.482/1.477
Proof Test	100 kpsi

\*Guaranteed Gigabit Ethernet Distance of 300mtr at 850nm for 10 Gb/s per IEEE802.3ae and 1000mtr at 850nm for 1 Gb/s per IEEE802.3z.  
\*\* Measured attenuations on shipping reels will not exceed the nominal values by .75dB/km (Tight Buffered Cables Only)



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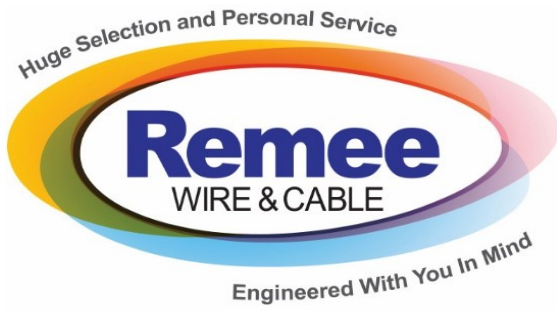


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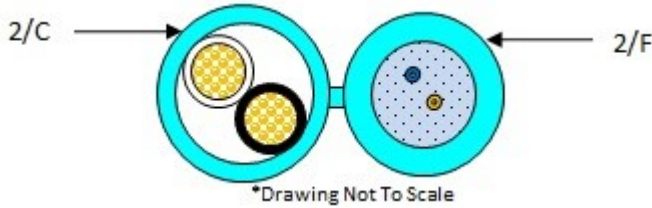
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Your signature constitutes that you have read and agreed to this specification sheet and upon confirmation of your order; this item may be non-cancelable and non-returnable.

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

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