PFC-302012F



Powered Fiber Cable, OM3, 2 Fibers, Outdoor, 12AWG Conductor, Printed in FEET

- Easy peel, stranded conductors for maximum cable flexibility and rapid access
- Polarization indentation along one side of the cable for polarity identification
- No special tools or mounting hardware required usage of a standard "FTTH" pressure clamp for aerial installation
- Easy split of cable into three separate sections for separate routing in closures, as needed for installation
- Polyethylene jacket for outdoor duct or direct buried applications

OBSOLETE

Product Classification

Regional Availability North America

Product Type Hybrid cable, fiber and power

Ordering NoteMinimum order quanity is 1640 feet

General Specifications

Cable TypeStranded outdoor

Fiber Short Description PFC-O12

Jacket Color Black

Jacket Marking Feet

Total Fiber Count 2

Dimensions

 Height Over Jacket
 4.318 mm | 0.17 in

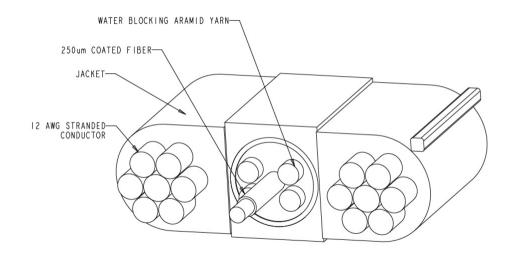
 Width Over Jacket
 11.43 mm | 0.45 in

Conductor Gauge 12 AWG

Outline Drawing



PFC-302012F



Mechanical Specifications

Minimum Bend Radius, loaded50.8 mm | 2 inMinimum Bend Radius, unloaded30.48 mm | 1.2 inTensile Load, long term, maximum133.447 N | 30 lbfTensile Load, short term, maximum440.374 N | 99 lbfVertical Rise, maximum122.011 m | 400.3 ft

Optical Specifications

Fiber Type OM3, bend insensitive

Environmental Specifications

Installation temperature $-10 \,^{\circ}\text{C}$ to $+60 \,^{\circ}\text{C}$ (+14 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F}$)

Operating Temperature $-40 \,^{\circ}\text{C}$ to $+70 \,^{\circ}\text{C}$ (-40 $^{\circ}\text{F}$ to +158 $^{\circ}\text{F}$)

Storage Temperature $-40 \,^{\circ}\text{C}$ to $+70 \,^{\circ}\text{C}$ (-40 $^{\circ}\text{F}$ to +158 $^{\circ}\text{F}$)

Cable Qualification Standards Telcordia GR-20-CORE Issue 4

Environmental Space Outdoor

Jacket UV Resistance UV stabilized

Packaging and Weights

Cable weight 109.975 kg/km | 73.9 lb/kft

COMMSCOPE®

PFC-302012F

Included Products

CS-5E-PFC

 50µm OM3 Bend-Insensitive Multimode Fiber

CS-5E-PFC

50um 0M3 Bend-Insensitive Multimode Fiber

Product Classification

Portfolio CommScope® **Product Type** Optical fiber

General Specifications

Cladding Diameter 125 µm **Cladding Diameter Tolerance** ±0.8 µm 0.7 % **Cladding Non-Circularity, maximum Coating Diameter (Colored)** 242 µm **Coating Diameter Tolerance (Colored)** ±7 µm Coating/Cladding Concentricity Error, maximum 10 µm **Core Diameter** 50 µm **Core Diameter Tolerance** ±2.5 µm Core/Clad Offset, maximum

Proof Test 689.476 N/mm² | 100000 psi

Mechanical Specifications

0.20 dB @ 850 nm | 0.50 dB @ 1,300 nm Macrobending, 15 mm Ø mandrel, 2 turns Macrobending, 30 mm Ø mandrel, 2 turns 0.10 dB @ 850 nm | 0.30 dB @ 1,300 nm

1 µm

8.9 N | 2.001 lbf Coating Strip Force, maximum 1.3 N | 0.292 lbf **Coating Strip Force, minimum**

Dynamic Fatigue Parameter, minimum 25

Optical Specifications

Numerical Aperture 0.2 **Numerical Aperture Tolerance** ±0.015 Point Defects, maximum 0.2 dB

Zero Dispersion Slope, maximum 0.105 ps/[km-nm-nm]

Zero Dispersion Wavelength, maximum 1340 nm Zero Dispersion Wavelength, minimum 1295 nm



CS-5E-PFC

Optical Specifications, Wavelength Specific

Attenuation, maximum 1.20 dB/km @ 1,300 nm | 3.00 dB/km @ 850 nm

Backscatter Coefficient -68.0 dB @ 850 nm | -75.7 dB @ 1,300 nm

 Bandwidth, Laser, minimum
 2,000 MHz-km @ 850 nm
 | 500 MHz-km @ 1,300 nm

 Bandwidth, OFL, minimum
 1,500 MHz-km @ 850 nm
 | 500 MHz-km @ 1,300 nm

Differential Mode Delay NoteSuperior to TIA-492AAAC and IEC 60793-2-10 at 850 nm

Index of Refraction 1.477 @ 1,300 nm | 1.482 @ 850 nm

Standards Compliance TIA-492AAAC (OM3)

Environmental Specifications

Heat Aging, maximum $0.10 \text{ dB/km} \ @ 85 \ ^{\circ}\text{C}$

Temperature Dependence, maximum0.1 dB/kmTemperature Humidity Cycling, maximum0.1 dB/km

Water Immersion, maximum 0.10 dB/km @ 23 °C

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system



* Footnotes

Temperature Dependence, maximum Temperature dependence is conducted at -60 °C to +85 °C (-76 °F to +185 °F)

Temperature Humidity Cycling, maximum Temperature humidity cycling is conducted at -10 °C to +85 °C (+14 °F to +185 °F)

up to 95% relative humidity

