PFC-304012



Powered Fiber Cable, OM3, 4 Fibers, Outdoor, 12AWG Conductor, meter, 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

Product Classification

Regional Availability

Asia | Australia/New Zealand | EMEA | Latin America | North America

Product Type Hybrid cable, fiber and power

Ordering NoteMinimum order quanity is 500 meter

General Specifications

Cable TypeStranded outdoor

Fiber Short Description PFC-012

Jacket Color Black

Total Fiber Count 4

Dimensions

 Height Over Jacket
 4.318 mm | 0.17 in

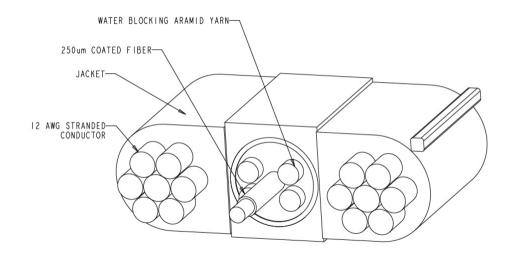
 Width Over Jacket
 11.43 mm | 0.45 in

Conductor Gauge 12 AWG

Outline Drawing



PFC-304012



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-304012

Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



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

