



Powered Fiber Cable, OS2, 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

Product Classification

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|------------------------------|-------------------------------|
| Product Type | Hybrid cable, fiber and power |
| Regional Availability | North America |

Standards And Qualifications

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|--------------------------------------|------------------------------|
| Cable Qualification Standards | Telcordia GR-20-CORE Issue 4 |
|--------------------------------------|------------------------------|

General Specifications

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|------------------------|-------------------------------------|
| Cable Type | Stranded outdoor |
| Conductor Gauge | 12 AWG |
| Ordering Note | Minimum order quantity is 1640 feet |

Construction Materials

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|-----------------------------|----------------|
| Total Fiber Count | 2 |
| Fiber Type | G.657.A2 OS2 |
| Jacket Color | Black |
| Jacket UV Resistance | UV stabilized |

Dimensions

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|---------------------------|--------------------|
| Cable Weight | 110.0 kg/km |
| Height Over Jacket | 4.30 mm 0.17 in |
| Width Over Jacket | 11.50 mm 0.45 in |

Physical Specifications

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| Minimum Bend Radius, loaded | 50.0 mm 2.0 in |
| Minimum Bend Radius, unloaded | 30.0 mm 1.2 in |
| Tensile Load, long term, maximum | 132 N 30 lbf |
| Tensile Load, short term, maximum | 440 N 99 lbf |

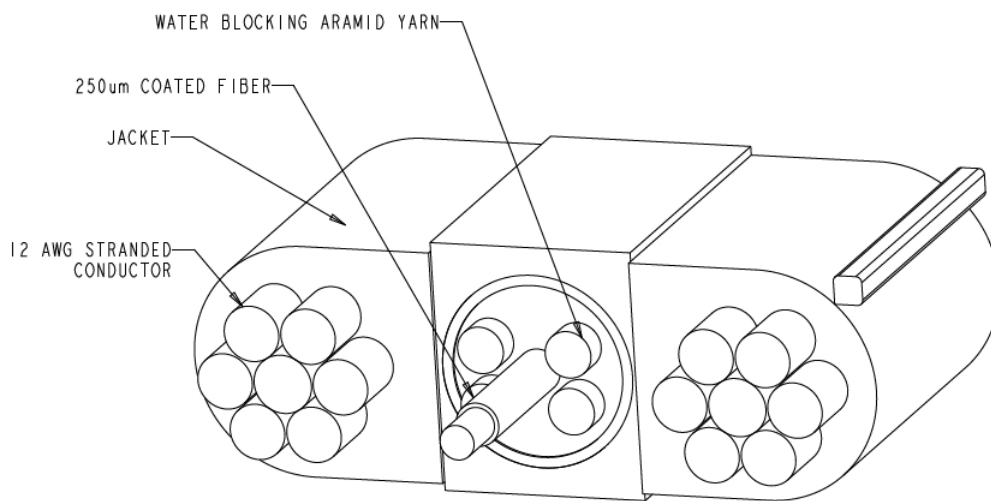
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Vertical Rise, maximum 122.0 m | 400.3 ft

Environmental Specifications

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|---------------------------------|--------------------------------------|
| Environmental Space | Outdoor |
| Installation Temperature | -10 °C to +60 °C (+14 °F to +140 °F) |
| Operating Temperature | -40 °C to +70 °C (-40 °F to +158 °F) |
| Storage Temperature | -40 °C to +70 °C (-40 °F to +158 °F) |

Outline Drawing



Regulatory Compliance/Certifications

Agency
RoHS 2011/65/EU

Classification
Compliant



Included Products

CS-8G-PFC (Product Component—not orderable) — Enhanced Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T G.657.A2, B2)

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

Enhanced Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T G.657.A2, B2)

Product Classification

| | |
|---------------------|---------------|
| Portfolio | CommScope® |
| Product Type | Optical fiber |

Optical Specifications, Wavelength Specific

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|--|--|
| Standards Compliance | ITU-T G.657.A2 ITU-T G.657.B2 |
| Attenuation, maximum | 0.30 dB/km @ 1,550 nm 0.40 dB/km @ 1,310 nm |
| Dispersion, maximum | 18 ps(nm-km) at 1550 nm 3.5 ps(nm-km) from 1285 nm to 1330 nm at 1310 nm |
| Mode Field Diameter | 8.8 μm @ 1,310 nm 9.9 μm @ 1,550 nm |
| Mode Field Diameter Tolerance | ±0.4 μm @ 1310 nm ±0.5 μm @ 1550 nm |
| Index of Refraction | 1.467 @ 1,310 nm 1.467 @ 1,385 nm 1.468 @ 1,550 nm |
| Polarization Mode Dispersion Link Design Value, maximum | 0.06 ps/sqrt(km) |

Physical Specifications

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|--|----------|
| Cladding Diameter | 125.0 μm |
| Cladding Diameter Tolerance | ±0.7 μm |
| Cladding Non-Circularity, maximum | 0.7 % |
| Coating Diameter (Colored) | 254 μm |
| Coating Diameter (Uncolored) | 240 μm |
| Coating Diameter Tolerance (Colored) | ±7 μm |
| Coating Diameter Tolerance (Uncolored) | ±5 μm |
| Coating/Cladding Concentricity Error, maximum | 12 μm |
| Core/Clad Offset, maximum | 0.5 μm |

Optical Specifications, General

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|--|---------------------|
| Cabled Cutoff Wavelength, maximum | 1260 nm |
| Point Defects, maximum | 0.10 dB |
| Zero Dispersion Slope, maximum | 0.092 ps/[km-nm-nm] |
| Zero Dispersion Wavelength, maximum | 1322 nm |
| Zero Dispersion Wavelength, minimum | 1302 nm |

Mechanical Specifications

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|-------------------------------------|-----------------|
| Coating Strip Force, maximum | 8.9 N 2.0 lbf |
| Coating Strip Force, minimum | 1.3 N 0.3 lbf |

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|--|--|
| Dynamic Fatigue Parameter, minimum | 20 |
| Fiber Curl, minimum | 4.0 m 13.1 ft |
| Macrobending, 15 mm mandrel, 1 turn | 0.50 dB @ 1,550 nm 1.00 dB @ 1,625 nm |
| Macrobending, 20 mm mandrel, 1 turn | 0.10 dB @ 1,550 nm 0.20 dB @ 1,625 nm |
| Macrobending, 30 mm mandrel, 10 turns | 0.03 dB @ 1,550 nm 0.10 dB @ 1,625 nm |
| Proof Test | 689.48 N/mm ² 100000.00 psi |

Environmental Specifications

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|--|--------------------|
| Heat Aging, maximum | 0.05 dB/km @ 85 °C |
| Temperature Dependence, maximum | 0.05 dB/km |
| Temperature Humidity Cycling, maximum | 0.05 dB/km |
| Water Immersion, maximum | 0.05 dB/km @ 23 °C |

Regulatory Compliance/Certifications

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



* Footnotes

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|--|---|
| 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 |