



Product: [HDSB0020216RC](#)

Indoor/Outdoor Hybrid Copper-Fiber Cable, OS2, 2 Breakout Fibers, #16-2c, CMR-OF

Product Description

FX HYBRID INDOOR/OUTDOOR, OS2, BREAKOUT 3.0MM, 2 FIBERS, 02 x 16AWG, CMR-OF, 3.0MM SUB (1F X 900UM), BLACK JACKET

Technical Specifications

Product Overview

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|------------------------|--|
| Suitable Applications: | Distributed Antenna Systems (DAS), Passive Optical Network (PON), Wireless Access Points (WAP), Security (Cameras) |
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Fiber Specifications

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|----------------------|--------------------------|
| Fiber Type: | OS2 |
| Fiber Core Diameter: | 8.2/125 μ m |
| Buffer Material: | PVC - Polyvinyl Chloride |
| Buffer Diameter: | 900 μ m |
| Fiber Count: | 2 |
| Fiber Color Coding: | TIA-598-D |

Fiber Construction

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|---------------------------|----------------------------|
| Subunit Strength Members: | Waterblocking aramid yarns |
| Fibers Per Subunit: | 1 |
| Nom. Jacket Diameter: | 0.118 in. (3.0 mm) |
| Jacket Color: | Yellow |

Conductor Specifications

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|---------------------------|--------------------|
| AWG Size: | 16 |
| Number of Strands: | 19x29 |
| Conductor Type: | TC - Tinned Copper |
| Number of Conductors: | 2 |
| Insulation Material: | PVC |
| Nom. Insulation Diameter: | 0.087 in. (2.2 mm) |

Outer Jacket Specifications

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|---------------------|--------------------------|
| Jacket Material: | PVC - Polyvinyl Chloride |
| Nom. Diameter: | 0.375 in (9.6 mm) |
| Color: | Black |
| Number of Ripcords: | 1 |

Optical Characteristics

| Wavelength | 1310 nm | 1550 nm |
|---------------------------------|-------------|--------------|
| Max. Attenuation | 0.50 dB/km | 0.50 dB/km |
| Mode Field Diameter | 9.2 μ m | 10.4 μ m |
| 1 Gigabit Ethernet Performance | 5000 m | -- |
| 10 Gigabit Ethernet Performance | 10,000 m | 40,000 m |

Mechanical Characteristics

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|--|-----------------------|
| Min. Bend Radius During Installation: | 15x Cable OD |
| Min. Bend Radius During Operation: | 10x Cable OD |
| Max. Tensile Strength During Installation: | 1335 N (300 lbf) |
| Max. Tensile Strength During Operation: | 400 N (90 lbf) |
| Crush Resistance: | 220 N/cm |
| Bulk Cable Weight: | 64 lbs/kft (96 kg/km) |

Temperature Range

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|---------------------------------|----------------|
| Installation Temperature Range: | -10°C to +60°C |
| Operating Temperature Range: | -40°C to +70°C |
| Storage Temperature Range: | -40°C to +70°C |

Standards and Compliance

| | |
|----------------------------|---|
| Environmental Suitability: | Indoor/Outdoor, Sunlight Resistance, Burial |
| Sustainability: | CA Prop 65 |
| NEC / UL Compliance: | CMR-OF |
| ICEA Compliance: | S-120-742 |
| TIA/EIA Compliance: | ICEA S-120-742 |

History

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|----------------------|---|
| Update and Revision: | Revision Number: 0.46 Revision Date: 02-15-2024 |
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