



**Product:** [HD3B0020214FB](#) 

Indoor/Outdoor Armored Hybrid Copper-Fiber Cable, OM3, 2 Breakout Fibers, 2.0mm Sub-units, #14-2c, CL3R-OF

### Product Description

FX HYBRID INDOOR/OUTDOOR, OM3, BREAKOUT, 2 FIBERS, 02 x 14AWG, CL3R-OF ALUMINUM INTERLOCKED ARMOR, SUB-UNIT 2.0MM (1F X 900UM), BLACK JACKET

### Technical Specifications

#### Product Overview

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

#### Fiber Specifications

|                      |                          |
|----------------------|--------------------------|
| Fiber Type:          | OM3                      |
| Fiber Core Diameter: | 50/125 µm                |
| Buffer Material:     | PVC - Polyvinyl Chloride |
| Buffer Diameter:     | 900 µm                   |
| Fiber Count:         | 2                        |
| Fiber Color Coding:  | TIA-598-D                |

#### Fiber Construction

|                           |                            |
|---------------------------|----------------------------|
| Subunit Strength Members: | Waterblocking aramid yarns |
| Fibers Per Subunit:       | 1                          |
| Nom. Jacket Diameter:     | 0.078 in. (2.0 mm)         |
| Jacket Color:             | Aqua                       |

#### Conductor Specifications

|                           |                    |
|---------------------------|--------------------|
| AWG Size:                 | 14                 |
| Number of Strands:        | 19x26              |
| Conductor Type:           | TC - Tinned Copper |
| Number of Conductors:     | 2                  |
| Insulation Material:      | PVC                |
| Nom. Insulation Diameter: | 0.090 in. (2.3 mm) |

#### Inner Jacket Specifications

|                  |                            |
|------------------|----------------------------|
| Strength Member: | Waterblocking Aramid Yarns |
| Material:        | PVC - Polyvinyl Chloride   |
| Nom. Diameter:   | 0.342 in (8.7 mm)          |
| Color:           | Aqua                       |

#### Armor Specifications

|                          |                                |
|--------------------------|--------------------------------|
| Armor Type and Material: | AIA - Aluminum Interlock Armor |
|--------------------------|--------------------------------|

#### Outer Jacket Specifications

|                |                          |
|----------------|--------------------------|
| Material:      | PVC - Polyvinyl Chloride |
| Nom. Diameter: | 0.635 in (16.2 mm)       |

|                     |       |
|---------------------|-------|
| Color:              | Black |
| Number of Ripcords: | 1     |

#### Optical Characteristics

| Wavelength                             | 850 nm      | 1300 nm    |
|--|-------------|------------|
| Max. Attenuation                       | 3.0 dB/km   | 1.0 dB/km  |
| 1 Gigabit Ethernet Performance         | 1000 m      | 550 m      |
| 10 Gigabit Ethernet Performance        | 300 m       | --         |
| Min. Effective Modal Bandwidth (EMB)   | 2000 MHz.km | --         |
| Min. Overfilled Launch (OFL) Bandwidth | 1500 MHz.km | 500 MHz.km |

#### Mechanical Characteristics

|  |                         |
|--|-------------------------|
| Min. Bend Radius During Installation:      | 20x Cable OD            |
| Min. Bend Radius During Operation:         | 15x Cable OD            |
| Max. Tensile Strength During Installation: | 1335 N (300 lbf)        |
| Max. Tensile Strength During Operation:    | 400 N (90 lbf)          |
| Crush Resistance:                          | 440 N/cm                |
| Bulk Cable Weight:                         | 209 lbs/kft (312 kg/km) |

#### Temperature Range

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

#### Standards and Compliance

|                            |   |
|----------------------------|---|
| Environmental Suitability: | Indoor/Outdoor, Sunlight Resistance, Burial |
| Sustainability:            | CA Prop 65                                  |
| NEC / UL Compliance:       | CL3R-OF                                     |
| ICEA Compliance:           | S-120-742                                   |
| TIA/EIA Compliance:        | ICEA S-120-742                              |

#### History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.17 Revision Date: 12-15-2021 |
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