



**Product:** [HDSB0020218FC](#)

Indoor/Outdoor Armored Hybrid Copper-Fiber Cable, OS2, 2 Breakout Fibers, #18-2c, CMR-OF

**Product Description**

FX HYBRID INDOOR/OUTDOOR, OS2, BREAKOUT, 2 FIBERS, 02 x 18AWG, CMRR-OF ALUMINUM INTERLOCKED ARMOR, SUB-UNIT 3.0MM (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:          | OS2                      |
| Fiber Core Diameter: | 8.2/125 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:     | 0.118 in. (3.0 mm)         |
| Jacket Color:             | Yellow                     |

**Conductor Specifications**

|                           |                    |
|---------------------------|--------------------|
| AWG Size:                 | 18                 |
| Number of Strands:        | 19x30              |
| Conductor Type:           | TC - Tinned Copper |
| Number of Conductors:     | 2                  |
| Insulation Material:      | PVC                |
| Nom. Insulation Diameter: | 0.072 in. (1.8 mm) |

**Inner Jacket Specifications**

|                  |                            |
|------------------|----------------------------|
| Strength Member: | Waterblocking Aramid Yarns |
| Material:        | PVC - Polyvinyl Chloride   |
| Nom. Diameter:   | 0.375 in (9.5 mm)          |
| Color:           | Yellow                     |

**Armor Specifications**

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

**Outer Jacket Specifications**

|                  |                          |
|------------------|--------------------------|
| Jacket Material: | PVC - Polyvinyl Chloride |
| Nom. Diameter:   | 0.665 in (16.9 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 μm     | 10.4 μm    |
| 1 Gigabit Ethernet Performance  | 5000 m     | --         |
| 10 Gigabit Ethernet Performance | 10,000 m   | 40,000 m   |

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:                         | 183 lbs/kft (273 kg/km) |

Temperature Range

|                                 |                |
|---------------------------------|----------------|
| 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

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.25 Revision Date: 02-15-2024 |
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