



Product: [HI4B0020218FB](#)

Indoor Armored Hybrid Copper-Fiber Cable, OM4, 2 Breakout Fibers, #18-2c, CMR-OF

Product Description

FX HYBRID INDOOR, OM4, BREAKOUT, 2 FIBERS, 02 x 18AWG, CMR-OF ALUMINUM INTERLOCKED ARMOR, SUB-UNIT 2.0MM (1F X 900UM), ERIKA VIOLET 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: | OM4 |
| Fiber Core Diameter: | 50/125 μ m |
| Buffer Material: | PVC - Polyvinyl Chloride |
| Buffer Diameter: | 900 μ m |
| Fiber Count: | 2 |
| Fiber Color Coding: | TIA-598-D |

Fiber Construction

| | |
|---------------------------|--------------------|
| Subunit Strength Members: | Aramid yarns |
| Fibers Per Subunit: | 1 |
| Nom. Jacket Diameter: | 0.078 in. (2.0 mm) |
| Jacket Color: | Erika Violet |

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: | Aramid Yarns |
| Material: | PVC - Polyvinyl Chloride |
| Nom. Diameter: | 0.297 in (7.5 mm) |
| Color: | Erika Violet |

Armor Specifications

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

Outer Jacket Specifications

| | |
|------------------|--------------------------|
| Jacket Material: | PVC - Polyvinyl Chloride |
| Nom. Diameter: | 0.59 in (15.0 mm) |

| | |
|---------------------|--------------|
| Color: | Erika Violet |
| 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 | 550 m | -- |
| Min. Effective Modal Bandwidth (EMB) | 4700 MHz.km | -- |
| Min. Overfilled Launch (OFL) Bandwidth | 3500 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: | 148 lbs/kft (221 kg/km) |

Temperature Range

| | |
|---------------------------------|----------------|
| Installation Temperature Range: | -10°C to +60°C |
| Operating Temperature Range: | -20°C to +70°C |
| Storage Temperature Range: | -40°C to +70°C |

Standards and Compliance

| | |
|----------------------------|----------------|
| Environmental Suitability: | Indoor |
| 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: 0.28 Revision Date: 02-15-2024 |
|----------------------|---|

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.