



**Product:** [HDSB0020220RC](#)

Indoor/Outdoor Hybrid Copper-Fiber Cable, OS2, 2 Breakout Fibers, #20-2c, CMR-OF

### Product Description

FX HYBRID INDOOR/OUTDOOR, OS2, BREAKOUT 3.0MM, 2 FIBERS, 02 x 20AWG, CMR-OF, 3.0MM SUB (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)
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#### Fiber Specifications

Fiber Type:	OS2
Fiber Core Diameter:	8.2/125 $\mu$ m
Buffer Material:	PVC - Polyvinyl Chloride
Buffer Diameter:	900 $\mu$ m
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:	20
Number of Strands:	19x32
Conductor Type:	TC - Tinned Copper
Number of Conductors:	2
Insulation Material:	PVC
Nom. Insulation Diameter:	0.052 in. (1.3 mm)

#### Outer Jacket Specifications

Jacket Material:	PVC - Polyvinyl Chloride
Nom. Diameter:	0.393 in (10.0 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 $\mu$ m	10.4 $\mu$ m
1 Gigabit Ethernet Performance	5000 m	--
10 Gigabit Ethernet Performance	10,000 m	40,000 m

#### Mechanical Characteristics

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:	55 lbs/kft (82 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: 0.46 Revision Date: 02-15-2024
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