



Product: [TE-SBB-002-RN5N](#) 

Mining Grade, Indoor/Outdoor, Breakout, OS2, 2 Fibers, Sub-Units 2.0mm 900µm, Single Jacket, MSHA

Product Description

Mining Grade, Indoor/Outdoor, Breakout, OS2, 2 Fibers, Sub-Units 2.0mm 900µm, Single Jacket, Black, PVC, OFNR, Ozone-UV-Chem Resistant, MSHA Approved

Technical Specifications

Product Overview

Product Category:	Fiber Breakout Cable
Suitable Applications:	Mining, Harsh Environment, IoT, Factory or Process Automation, IP Cameras And Devices, Data Communication

Fiber Specifications

Fiber Type:	OS2, G.657.A1, G.652.D
Fiber Diameter:	250 µm
Fiber Buffer Diameter:	900 µm
Fiber Count:	2
Fiber Color Coding:	TIA-598-D

Cable Construction

Number of Active Subunits:	2
Fibers Per Subunit:	1
Subunit Diameter:	0.078 in (2.0 mm)
Subunit Color:	Yellow
Fiber SubUnit Strength Members:	Aramid Yarns
Central Strength Member Type:	GRP

Outer Jacket Specifications

Strength Member:	Aramid Yarns
Jacket Material:	PVC - Polyvinyl Chloride
Nom. Diameter:	0.330 in (8.4 mm)
Outer Jacket Color:	Black
Outer Jacket Ripcord:	1

Optical Characteristics

Wavelength	1310 nm	1550 nm
Max. Attenuation	0.5 dB/km	0.5 dB/km
10 Gigabit Ethernet Performance	10,000 m	50,000 m
40 Gigabit Ethernet Performance	10,000 m	--
100 Gigabit Ethernet Performance	10,000 m	--

Mechanical Characteristics

Minimum Bend Radius During Installation:	15x Cable OD
Minimum Bend Radius During Operation:	10x Cable OD
Max. Tensile Strength During Installation:	2669 N (600 lbf)
Max. Tensile Strength During Operation:	845 N (190 lbf)

Crush Resistance:	440 N/cm
Bulk Cable Weight:	40 lbs/kft (60 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, Oil Resistance - Good chemical and oil resistance
Flammability / Reaction to Fire:	UL1666, UL 1685
NEC / UL Compliance:	OFNR-ST1
CEC / C(UL) Compliance:	FT4
ICEA Compliance:	S-104-696
TIA/EIA Compliance:	568.3, 598-D
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment)

Product Notes

Notes:	Ozone Resistant, PMSHA- 07-KA260002-MSHA
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History

Update and Revision:	Revision Number: 0.2 Revision Date: 10-06-2026
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Part Numbers

Variants

Item #	Color	Putup Type
TE-SBB-002-RN5N	Black	Reel

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