



Product: [TE-SBB-008-RN5N](#) 

Mining Grade, Indoor/Outdoor, Breakout, OS2, 8 Fibers, Subunits 2.0mm 900µm, Single Jacket, MSHA

Product Description

Mining Grade, Indoor/Outdoor, Breakout, OS2, 8 Fibers, Subunits 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:	8
Fiber Color Coding:	TIA-598-D

Cable Construction

Number of Active Subunits:	8
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
Core Wrap Material:	Water block Tape

Outer Jacket Specifications

Strength Member:	Aramid Yarns
Jacket Material:	PVC - Polyvinyl Chloride
Nom. Diameter:	0.460 in (11.7 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:	3603 N (810 lbf)

Max. Tensile Strength During Operation:	1246 N (280 lbf)
Crush Resistance:	440 N/cm
Bulk Cable Weight:	77 lbs/kft (115 kg/km)

Temperature Range

Installation Temperature Range:	-50°C to +85°C
Operating Temperature Range:	-50°C to +85°C
Storage Temperature Range:	-50°C to +85°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
--------	--

History

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

Part Numbers

Variants

Item #	Color	Putup Type
TE-SBB-008-RN5N	Black	Reel

© 2026 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.