



Product: [TT-1BB-0029NEO](#) 

BELDEN RAILTUFF TT-1BB-0029NEO - BREAKOUT 2*62.5/125-OM1 EN45545-2 HL3

Product Description

BELDEN RAILTUFF TT-1BB-0029NEO - BREAKOUT 2*62.5/125-OM1 EN45545-2 HL3

Technical Specifications

Product Overview

Suitable Applications:	For onboard use in railway coaches or in between two coaches.
------------------------	---

Fiber Specifications

Fiber Type:	OM1
Fiber Buffer Material:	LSZH - Low Smoke Zero Halogen (Flame Retardant)
Fiber Buffer Diameter:	0.9 mm
Fiber Count:	2
Fiber Color Coding:	TIA coding (Gxxxxx.T): Blue

Cable Construction

Number of Active Subunits:	2
Number of Fillers:	2
Fibers Per Subunit:	1
Subunit Waterblocking:	Waterblocking Glass Yarns + Tape
Subunit Diameter:	2.1 mm
Fiber SubUnit Strength Members:	Aramid Yarns

Outer Jacket Specifications

Jacket Material:	LSZH - Low Smoke Zero Halogen (Flame Retardant)
Nom. Diameter:	7.4 mm (0.29 in)
Outer Jacket Color:	Orange

Optical Characteristics

Wavelength	850 nm	1300 nm
Max. Attenuation	3.2 dB/km	0.9 dB/km

Mechanical Characteristics

Mechanical Tests

Description	Tested Standard	Requirement/Value	According to Family Specification
Cable Min. Bend Radius Installation (Short Term)	IEC 60794-1-21-E6	10 x Cable Diam.	IEC 60794-2-20
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E11	20 x Cable Diam.	IEC 60794-2-20
Cable Max. Tensile Strength Installation (Short Term)	IEC 60794-1-21-E1	400 N (90 lbf)	
Cable Max. Crush Resistance Installation (Short Term)	IEC 60794-1-21-E3	5 kN/m	IEC 60794-2-20
Cable Max. Crush Resistance Operation (Long Term)	IEC 60794-1-21-E3	3 kN/m	IEC 60794-2-20

Bulk Cable Weight:	56 kg/km (38 lbs/1000ft)
--------------------	--------------------------

Temperature Range

Installation Temperature Range:	-5 to +50 °C
Operating Temperature Range:	-40 to +85 °C
Storage Temperature Range:	-30 to +70 °C

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca
Flammability / Reaction to Fire:	IEC 60332-1 EN50305 (9.1.1) EN45545: HL1- HL3
CPR Compliance:	CPR Euroclass: Eca
European Halogen Free Standards:	IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 10 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3, IEC 61034-2 - Smoke Density Min. Transmittance = 60%

Product Notes

Notes:	The cable sheath fulfils the requirements in EN 50264-1 type EM 104
--------	---

History

Update and Revision:	Revision Number: 0.8 Revision Date: 04-11-2026
----------------------	--

© 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.