

WMS-2 HF 6,4 (EX10)R BU CUS - Shrink sleeve



8199180

<https://www.phoenixcontact.com/us/products/8199180>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Shrink sleeve, blue: user-defined, mounting type: slide-on, text field height: 80000 mm, text field width: 10 mm

Your advantages

- Individual labels can be ordered with a maximum length of 30 mm

Commercial data

Item number	8199180
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	BG8126
GTIN	4055626436746
Weight per piece (including packing)	9.99 g
Weight per piece (excluding packing)	9.99 g
Country of origin	PL

WMS-2 HF 6,4 (EX10)R BU CUS - Shrink sleeve



8199180

<https://www.phoenixcontact.com/us/products/8199180>

Technical data

Product properties

Product type	Shrink sleeve
Area of application	Railway industry

Marking

Printing	user-defined
----------	--------------

Dimensions

Width	6.4 mm
Length	25 mm

Material specifications

Color	blue (RAL 5015)
Material	Polyolefine
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Shrink temperature	> 90 °C

Environmental and real-life conditions

Test for substances that would hinder coating with paint or varnish

Result	Test passed
--------	-------------

Test for substances that would hinder coating with paint or varnish

Result	Test passed
Specification	DIN EN ISO 1518-1:2019-10 (following)
Requirements	≥ 5 N
Result	Test passed

Tesafilm test

Specification	DIN EN ISO 2409:2013 (following)
Result	Test passed

UV resistance

Specification	ISO 4892-2:2013-03 (following)
Result	Test passed
Test duration	96 h
Procedure	Artificial irradiation.

Temperature resistance

Specification	ANSI/UL 969-2018:03 (following)
Test duration	240 h
Rating 125 °C (150 °C)	Test passed

WMS-2 HF 6,4 (EX10)R BU CUS - Shrink sleeve



8199180

<https://www.phoenixcontact.com/us/products/8199180>

Wipe resistance of inscriptions

Specification	DIN EN 61010-1 (VDE 0411-1):2011-07
	DIN EN 62208 (VDE 0660-511):2012-06 (in parts)
Isopropyl [CAS No. 67-63-0]	Test passed
n-Hexane [CAS No. 110-54-3]	Test passed
Water + Petroleum ether [CAS No. 64742-82-1]	Test passed
Sodium hydroxide 0.1 mol/l [CAS No. 1310-73-2]	Test passed
Ethanol (99 %) [CAS No. 64-17-5]	Test passed
Specification	ISO 175:2010 (following)
Test duration	168 h
Sodium hydroxide 0.1 mol/l [CAS No. 1310-73-2]	Test passed
Ethanol (99 %) [CAS No. 64-17-5]	Test passed
Acetone (99 %) [CAS No. 67-64-1]	Test passed
Diesel [CAS No. 68476-34-6]	Test passed
IRM 901	Test passed
IRM 902	Test passed

Testing in a condensation changing climate in the presence of sulfur dioxide

Specification	DIN 50018:2013-05
Result	Test passed
Climate level	AHT 1.0 S
Cycles	2

Salt spray test

Specification	DIN EN 60068-2-11:2000-02
Result	Test passed
Test duration	96 h

Ambient conditions

Ambient temperature (operation)	-30 °C ... 105 °C
Recommended ambient temperature (storage/transport)	10 °C ... 25 °C
Recommended humidity (storage/transport)	45 % ... 55 % (Storage in a dry and dark place in the original packaging is recommended)
Shelf life	2 years

Standards and regulations

Standards

Standards/regulations	EN 45545-2
-----------------------	------------

WMS-2 HF 6,4 (EX10)R BU CUS - Shrink sleeve



8199180

<https://www.phoenixcontact.com/us/products/8199180>

Mounting

Mounting type

slide-on

WMS-2 HF 6,4 (EX10)R BU CUS - Shrink sleeve



8199180

<https://www.phoenixcontact.com/us/products/8199180>

Classifications

ECLASS

ECLASS-13.0	27281102
ECLASS-15.0	27281102

ETIM

ETIM 9.0	EC001530
----------	----------

UNSPSC

UNSPSC 21.0	39131500
-------------	----------

WMS-2 HF 6,4 (EX10)R BU CUS - Shrink sleeve



8199180

<https://www.phoenixcontact.com/us/products/8199180>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com