

WMS-OT HF 2,4 (EX4)RL - Marking sleeve



1163116

<https://www.phoenixcontact.com/us/products/1163116>

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Marking sleeve, Roll, white (RAL 9010), unmarked, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK W, cable diameter range: 1 ... 2.4 mm, unperforated, mounting type: slide-on, Number of individual labels: 1, text field height: 4 mm, text field width: 120000 mm

Your advantages

- Permanent and captive identification of single-core wires, wires, cables, pneumatic hoses, and other cylindrical objects
- Non-shrinkable halogen-free marking sleeve on rolls, in an oval design, for marking conductors and cables
- The oval design and the large opening enable rapid fitting onto the conductor or cable
- Through the use of the cutting or perforation unit, the marking sleeve can be cut to or perforated at the desired length (max. 1 m)
- Widely used and proven worldwide in the railway industry

Commercial data

Item number	1163116
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	BGE22F
GTIN	4063151173098
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Country of origin	CN

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Technical data

Notes

Material information	For the THERMOMARK ROLL, THERMOMARK ROLL 2.0, THERMOMARK ROLLMASTER 300/600, and THERMOMARK E.300 (D)/E.600 (D) roll printers, this material can only be processed with an external media hub.
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Product properties

Product type	Shrink sleeve
Area of application	Railway industry

Marking

Number of individual labels	1
Identification technology	Thermotransfer

Dimensions

Width	4 mm
Length	120 m

Text field

Text field width	120000 mm
Text field height	4 mm

Material specifications

Color	white (RAL 9010)
Material	Polyolefine
Base element 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
Components	halogen-free

Cable/line

External cable diameter	1 mm ... 2.4 mm
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Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-30 °C ... 125 °C
Recommended ambient temperature (storage/transport)	23 °C
Recommended humidity (storage/transport)	50 % (Storage in a dry and dark place in the original packaging is recommended)

Test for substances that would hinder coating with paint or varnish

Testing for paint wetting impairment substances (LABS-conformity)	VW PV 3.10.7:2005-02
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Result	Test passed
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Scratch resistance

Specification	EN ISO 1518-1:2023 (following)
Requirements	≥ 5 N
Result	Test passed

Tesafilm test

Specification	DIN EN ISO 2409:2020-12 (following)
Result	Test passed

UV resistance

Specification	DIN EN ISO 4892-2:2021-11 (following)
Result	Test passed
Test duration	96 h
Procedure	Artificial irradiation.

Temperature storage

Specification	IEC 60068-2-2:2007-07
Result	Test passed
Procedure	Test Bb
Duration	96 h
Temperature for testing	120 °C

Wipe resistance of inscriptions

Specification	DIN EN 61010-1 (VDE 0411-01):2020-03 DIN EN 62208 (VDE 0660-511):2012-06 (in parts)
Isopropanol (99%) [67-63-0]	Test passed
n-Hexane [CAS No. 110-54-3]	Test passed
Water + Petroleum ether [CAS No. 64742-82-1]	Test passed

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

Specification	EN ISO 22479:2022-06
Result	Test passed
Procedure	Method B
Cycles	2

Salt spray test

Specification	DIN EN IEC 60068-2-11 (VDE 0468-2-11):2022-10
Result	Test passed
Test duration	96 h

Standards and regulations

Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
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Mounting

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Mounting type

slide-on

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Classifications

ECLASS

ECLASS-13.0	27281102
ECLASS-15.0	27281102

ETIM

ETIM 10.0	EC001530
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UNSPSC

UNSPSC 21.0	39131500
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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EU REACH SVHC

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