

# MM-WMS-2 4,8 (EX9)R C1 YE/BK - Shrink sleeve



1116186

<https://www.phoenixcontact.com/us/products/1116186>

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Shrink sleeve, Roll, Mixed color, unmarked, can be labeled with: THERMOMARK GO, THERMOFOX, THERMOMARK GO.K, cable diameter range: 2.4 ... 4.8 mm, mounting type: slide-on, Number of individual labels: 1, text field height: 6.1 mm, text field width: 1800 mm

## Your advantages

- High-quality and solvent-resistant marking solution for industrial applications that is created by means of thermal transfer printing
- Thanks to the continuous format, a shrink sleeve marker of the appropriate length can be created flexibly for the relevant application
- Easy and efficient material cartridge system: Includes both the material to be printed and the corresponding ink ribbon
- No visible difference between retrospective marking and existing markings created with a desktop roll printer
- The shrink sleeve material provides additional electrical insulation and mechanical protection for conductors
- The conductor to be marked is simply threaded through the sleeve and fixed by shrinking the sleeve
- The material is cUL certified

## Commercial data

Item number	1116186
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BG23
Product key	BG221E
GTIN	4063151041199
Weight per piece (including packing)	47.4 g
Weight per piece (excluding packing)	37 g
Customs tariff number	96121010
Country of origin	CN

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## Technical data

### Product properties

Product type	Shrink sleeve
Area of application	Railway industry

### Marking

Number of individual labels	1
Number of individual labels per row	1
Identification technology	Thermal transfer

### Dimensions

Height	9.1 mm
Length	1.8 m

### Text field

Text field width	1800 mm
Text field height	6.1 mm

### Material specifications

Color	multicolored (RAL -)
	yellow (RAL 1018)
	black (RAL 9005)
Material	Polyolefine
Base element material	polyolefine
Shrink rate	2:1
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 3
Components	free from silicone, halogen, and cadmium

### Cable/line

External cable diameter	2.4 mm ... 4.8 mm
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### Environmental and real-life conditions

#### Ambient conditions

Ambient temperature (operation)	-55 °C ... 125 °C
Recommended ambient temperature (storage/transport)	23 °C
Recommended humidity (storage/transport)	50 %

#### 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
Result	Test passed

#### UV resistance

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

## Wipe resistance of inscriptions

Specification	DIN EN 61010-1 (VDE 0411-1):2011-07 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	DIN EN ISO 22479:2022-08
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

## Mounting

Mounting type	slide-on
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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1116186>



**cULus Recognized**  
Approval ID: E310982

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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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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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### EF3.1 Climate Change

CO2e kg	3.78 kg CO2e
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