# MM-WMS-2 9,5 (EX16)R C1 WH/BK - Shrink sleeve

0803930

https://www.phoenixcontact.com/us/products/0803930

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Shrink sleeve, white (RAL 9010), unmarked, can be labeled with: THERMOFOX, THERMOMARK GO, THERMOMARK GO.K, cable diameter range: 4.8 ... 9.5 mm, mounting type: slide-on, Number of individual labels: 1, roll length: 1.8 m, text field height: 12.5 mm, text field width: 1800 mm, The product is being prepared for compliance with the Cyber Resilience Act (CRA)

## 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 | 0803930 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BG23 |

| | |
|---|---|
| Product key | BG221E |
| GTIN | 4055626212104 |
| Weight per piece (including packing) | 62.5 g |
| Weight per piece (excluding packing) | 60.3 g |
| Customs tariff number | 39173200 |
| Country of origin | CN |

## Technical data

### Notes

Note on application

| | |
|---|---|
| Note on application | As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA. |

### Product properties

| | |
|---|---|
| Product type | Shrink sleeve |
| Area of application | Railway industry |
| Special properties | The product is being prepared for compliance with the Cyber Resilience Act (CRA) |

Marking

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

### Dimensions

| | |
|---|---|
| Length of roll | 1.80 m |
| Height | 16.5 mm |

Text field

| | |
|---|---|
| Text field width | 1800 mm |
| Text field height | 12.5 mm |

### Material specifications

| | |
|---|---|
| Color (Label) | white (RAL 9010) |
| Color (Marking text) | black (RAL 9005) |
| Base element material | polyolefine |
| Shrink rate | 2:1 |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3 |
| Components | free from silicone, halogen, and cadmium |

### Cable/line

| | |
|---|---|
| External cable diameter | 4.8 mm ... 9.5 mm |

### 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 % (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 |
| Result | Test passed |

UV resistance

| | |
|---|---|
| Specification | DIN EN ISO 4892-2:2021-11 (following) |
| 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<br>[CAS No. 110-54-3] | Test passed |
| Water + Petroleum ether<br>[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 |

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/0803930

**cULus Recognized**
Approval ID: E310982

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27281102 |
| ECLASS-15.0 | 27281102 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC001530 |

### UNSPSC

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

## Environmental product compliance

EU RoHS

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

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% |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 1.62 kg CO2e |


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