

# MM-WMT 2,4 (15X4)R C1 WH/BK - Cable marker



1116144

<https://www.phoenixcontact.com/us/products/1116144>

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Cable marker, Roll, white (RAL 9010), unmarked, can be labeled with: THERMOMARK GO, cable diameter range: 1 ... 2.4 mm, mounting type: slide-on, Number of individual labels: 354, text field height: 3.2 mm, text field width: 14.1 mm

## Product description

MM-WMT... prepunched conductor markers are made of polyester, slid onto the conductors, and cannot break off.

## Your advantages

- The pre-punched geometry enables easy and convenient use
- Thanks to the innovative material composition, each label can be printed which results in zero wastage
- 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 conductor is pushed on through the two punch-outs on the marker. In this way, the marker is aligned on the conductor
- The special hole geometry for different conductor gauges ensures strong axial support
- High-quality and solvent-resistant marking solution for industrial applications that is created by means of thermal transfer printing

## Commercial data

Item number	1116144
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BG23
Product key	BG221E
GTIN	4063151041915
Weight per piece (including packing)	61.7 g
Weight per piece (excluding packing)	61.7 g
Customs tariff number	96121010
Country of origin	CN

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## Technical data

### Product properties

Product type	Conductor marker
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### Marking

Number of individual labels	354
Number of individual labels per row	1
Identification technology	Thermal transfer

### Dimensions

Width	29.3 mm
Height	4.2 mm
Depth	0.125 mm

### Text field

Text field width	14.1 mm
Text field height	3.2 mm

### Material specifications

Foil strength	125 µm
Color	white (RAL 9010)
Material	Polyester
Base element material	Polyester
Components	free from silicone, halogen, and cadmium

### Cable/line

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

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 120 °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

#### Test for substances that would hinder coating with paint or varnish

Testing for paint wetting impairment substances (LABS-conformity)	VDMA 24364-A1-L:2018-05
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 resistance

Specification	ANSI/UL 969-2018:03 (following)
Test duration	240 h
Rating 200 °C (230 °C)	Test passed

## 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
Sodium hydroxide 0.1 mol/l [CAS No. 1310-73-2]	Test passed
Ethanol (99 %) [CAS No. 64-17-5]	Test passed

## Immersion in chemicals, oil & fuel

Specification	ISO 175:2010 (following)
Test duration	168 h
Sodium hydroxide 0.1 mol/l [CAS No. 1310-73-2]	Test passed
Saltwater (saturated 350 g/l) [CAS No. - ]	Test passed
Ethanol (99 %) [CAS No. 64-17-5]	Test passed
Gasoline [CAS No. 64742-49-0]	Test passed
Diesel [CAS No. 68476-34-6]	Test passed
IRM 901	Test passed
IRM 902	Test passed

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IRM 903	Test passed
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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
Test duration	96 h

## Standards and regulations

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

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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### 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	1.383 kg CO2e
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