

# MM-WML-FLAGV 6 (20X10)R C1 WH/BK - Cable marking flags



1116190

<https://www.phoenixcontact.com/us/products/1116190>

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Cable marking flags, Roll, Mixed color, unmarked, can be labeled with: THERMOMARK GO, cable diameter range: 1 ... 6 mm, mounting type: adhesive, Number of individual labels: 145, text field height: 10 mm, text field width: 20 mm

## Product description

MM-WML-Flag polyolefin self-adhesive labels are available as prepunched material for wire marking. There are both horizontal and vertical versions.

## Your advantages

- High-quality and solvent-resistant marking solution for industrial applications that is created by means of thermal transfer printing
- The pre-punched geometry enables easy and convenient use
- 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 self-adhesive cable marking flag can be printed on both sides
- The material is cUL certified
- Thanks to the innovative material composition, each label can be printed which results in zero wastage

## Commercial data

Item number	1116190
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BG23
Product key	BG221E
GTIN	4063151042202
Weight per piece (including packing)	69.2 g
Weight per piece (excluding packing)	55 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	145
Number of individual labels per row	1
Identification technology	Thermal transfer

### Dimensions

Width	20 mm
Height	50 mm

### Text field

Text field width	20 mm
Text field height	10 mm

### Material specifications

Foil strength	89 µm
Adhesive strength	34 µm
Adhesive	Acrylic
Color	multicolored (RAL -) white (RAL 9010) black (RAL 9005)
Material	Polyolefine
Base element material	polyolefine
Components	free from silicone, halogen, and cadmium

### Cable/line

External cable diameter	1 mm ... 6 mm
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### Environmental and real-life conditions

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 60 °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

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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.

## Weathering-resistance

Specification	DIN EN ISO 4892-2:2021-11
Result	Test passed
Test duration	1000 h
Procedure	A

## Temperature resistance

Specification	ANSI/UL 969-2018:03 (following)
Test duration	240 h
Rating 100 °C (121 °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
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
Acetone (99 %) [CAS No. 67-64-1]	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

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IRM 901	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

## Mounting

Mounting type	adhesive
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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1116190>



**cULus Recognized**  
Approval ID: MH48542

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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	3.505 kg CO2e
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