

# MM-WML 6 (13X13)R C1 WH/BK - Cable marker



1116197

<https://www.phoenixcontact.com/us/products/1116197>

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Cable marker, Roll, Mixed color, unmarked, can be labeled with: THERMOMARK GO, cable diameter range: 4 ... 6 mm, mounting type: adhesive, cable diameter:  $\leq 6$  mm, Number of individual labels: 190, text field height: 12.7 mm, text field width: 12.7 mm

## Product description

MM-WML... vinyl polymer self-adhesive labels are available as prepunched material for wire marking.

## 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 transparent protective foil is wound over the marking and provides permanent protection against contamination and abrasion
- The wrap-around labels do not add bulk, which means that the cable can still be drawn through cable ducts, for example
- 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                          | 1116197       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BG23          |
| Product key                          | BG221E        |
| GTIN                                 | 4063151040772 |
| Weight per piece (including packing) | 60.7 g        |
| Weight per piece (excluding packing) | 60.7 g        |
| Customs tariff number                | 96121010      |
| Country of origin                    | CN            |

## Technical data

### Product properties

|              |                  |
|--------------|------------------|
| Product type | Conductor marker |
|--------------|------------------|

### Marking

|                                     |                  |
|-------------------------------------|------------------|
| Number of individual labels         | 190              |
| Number of individual labels per row | 1                |
| Identification technology           | Thermal transfer |

### Dimensions

|        |         |
|--------|---------|
| Width  | 12.7 mm |
| Height | 12.7 mm |
| Depth  | 0.1 mm  |

### Text field

|                   |         |
|-------------------|---------|
| Text field width  | 12.7 mm |
| Text field height | 12.7 mm |

### Material specifications

|                       |                                |
|-----------------------|--------------------------------|
| Foil strength         | 89 µm                          |
| Adhesive strength     | 23 µm                          |
| Adhesive              | Acrylic                        |
| Color                 | multicolored (RAL -)           |
|                       | white (RAL 9010)               |
|                       | black (RAL 9005)               |
| Material              | Vinyl polymer                  |
| Base element material | Vinyl polymer                  |
| Components            | Free from silicone and cadmium |

### Cable/line

|                         |               |
|-------------------------|---------------|
| External cable diameter | ≤ 6.00 mm     |
|                         | 4 mm ... 6 mm |

### Environmental and real-life conditions

#### Ambient conditions

|   |   |
|---|---|
| Ambient temperature (operation)                     | -40 °C ... 80 °C  |
| Recommended ambient temperature (storage/transport) | 21 °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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## 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<br>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                                   |

## Standards and regulations

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

## Mounting

|               |          |
|---------------|----------|
| Mounting type | adhesive |
|---------------|----------|

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1116197>



**cULus Recognized**  
Approval ID: MH48542

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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## 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 | 4.33 kg CO2e |
|---------|--------------|

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