

# E-WML 16 (25X19)R - Wire-wrap label



1199686

<https://www.phoenixcontact.com/gb/products/1199686>

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Wire-wrap label, Roll, white, unlabeled, can be labeled with: THERMOMARK E.WRAP, THERMOMARK E.300 (D)/600 (D), cable diameter range: 8.1 ... 16.2 mm, mounting type: adhesive, Number of individual labels: 2250, text field height: 19.1 mm, text field width: 25.4 mm

## Product description

The self-laminating wrap-around labels in the E-WML... product family are designed for automated processing with the THERMOMARK E.WRAP applicator. After the printing and applying process, the markers adhere to the cable at a permanently defined position and the protective laminate protects the markers against dirt and abrasion. As the labels wrap tightly around the wires, they do not create any additional volume, so the wires can also be pulled through cable ducts, for example.

## Your advantages

- For indoor and outdoor applications: high resistance to dirt and abrasion due to the protective laminate
- Firmly defined positioning of labels thanks to the adhesive system
- Broad diameter range with many different applications inside and outside the control cabinet
- The wrap-around labels do not create any additional volume, so the cable can also be pulled through cable ducts, for example
- Tight, bubble-free fit on the cable thanks to automatic winding
- For cylindrical objects, single wires, and cables

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1199686       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BG2311        |
| Product key                          | BG2311        |
| GTIN                                 | 4063151263102 |
| Weight per piece (including packing) | 891.25 g      |
| Weight per piece (excluding packing) | 783.05 g      |
| Customs tariff number                | 39191012      |
| Country of origin                    | FR            |

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## Technical data

### Product properties

|              |                   |
|--------------|-------------------|
| Product type | Conductor marking |
| Type         | Label             |

### Marking

|                                     |                            |
|-------------------------------------|----------------------------|
| Number of individual labels         | 2250                       |
| Number of individual labels per row | 1                          |
| Identification technology           | Thermal transfer for rolls |

### Dimensions

|        |         |
|--------|---------|
| Width  | 25.4 mm |
| Length | 70 mm   |

### Text field

|                   |         |
|-------------------|---------|
| Text field width  | 25.4 mm |
| Text field height | 19.1 mm |

### Material specifications

|                   |                  |
|-------------------|------------------|
| Foil strength     | 80 µm            |
| Adhesive strength | 25 µm            |
| Adhesive          | Acrylic          |
| Color             | white (RAL 9010) |
| Material          | PVC              |
| Components        | Silicone-free    |

### Cable/line

|                         |                    |
|-------------------------|--------------------|
| External cable diameter | 16.20 mm           |
|                         | 8.1 mm ... 16.2 mm |

### Environmental and real-life conditions

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

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

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

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

#### Scratch test for the determining 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) |
|---------------|-------------------------------------|

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|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

## UV resistance

|                         |                                       |
|-------------------------|---------------------------------------|
| Specification           | DIN EN ISO 4892-2:2021-11 (following) |
| Result                  | Test passed                           |
| Test duration           | 96 h                                  |
| Specification           | IEC 60068-2-2:2007-07                 |
| Result                  | Test passed                           |
| Duration                | 96 h                                  |
| Temperature for testing | 90 °C                                 |
| Specification           | DIN EN 60068-2-30:2006-06 (following) |
| Result                  | Test passed                           |
| Duration                | 96 h                                  |
| Temperature for testing | 40 °C                                 |
| Relative humidity       | 90 %                                  |

## Temperature resistance

|               |                                 |
|---------------|---------------------------------|
| Specification | ANSI/UL 969-2018:03 (following) |
| Test duration | 240 h                           |

## Wipe resistance of inscriptions

|                                                   |                                                                                        |
|---------------------------------------------------|----------------------------------------------------------------------------------------|
| Specification                                     | DIN EN 61010-1 (VDE 0411-01):2020-03<br>DIN EN 62208 (VDE 0660-511):2012-06 (in parts) |
| Isopropyl<br>[CAS No. 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                                                                            |
| Sodium hydroxide 0.1 mol/l<br>[CAS No. 1310-73-2] | Test passed                                                                            |
| Ethanol (99 %)<br>[CAS No. 64-17-5]               | Test passed                                                                            |
| Acetone (99 %)<br>[CAS No. 67-64-1]               | Test passed                                                                            |
| Specification                                     | ISO 175:2010 (following)                                                               |
| Test duration                                     | 168 h                                                                                  |
| Sodium hydroxide 0.1 mol/l<br>[CAS No. 1310-73-2] | Test passed                                                                            |
| Diesel<br>[CAS No. 68476-34-6]                    | Test passed                                                                            |
| IRM 901                                           | Test passed                                                                            |
| IRM 902                                           | Test passed                                                                            |

## Testing in a condensation changing climate in the presence of sulfur dioxide

|               |                      |
|---------------|----------------------|
| Specification | EN ISO 22479:2022-06 |
| Result        | Test passed          |
| Procedure     | Method B             |

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|        |   |
|--------|---|
| Cycles | 2 |
|--------|---|

## Salt spray test

|               |                           |
|---------------|---------------------------|
| Specification | DIN EN 60068-2-11:2000-02 |
| Result        | Test passed               |
| Test duration | 96 h                      |

## Ambient conditions

|                                                     |                                                                                          |
|-----------------------------------------------------|------------------------------------------------------------------------------------------|
| Ambient temperature (operation)                     | -40 °C ... 80 °C                                                                         |
| Ambient temperature (assembly)                      | + 15 °C ... 35 °C                                                                        |
| Recommended ambient temperature (storage/transport) | 20 °C ... 25 °C                                                                          |
| Recommended humidity (storage/transport)            | 40 % ... 50 % (Storage in a dry and dark place in the original packaging is recommended) |
| Shelf life                                          | 2 years                                                                                  |

## Standards and regulations

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

## Mounting

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

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## Approvals

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**cULus Recognized**

Approval ID: MH67185Vol1sec1

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27281102 |
| ECLASS-12.0 | 27281102 |
| ECLASS-13.0 | 27281102 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001530 |
|----------|----------|

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## Environmental product compliance

|                                         |                            |
|-----------------------------------------|----------------------------|
| EU RoHS                                 |                            |
| Fulfills EU RoHS substance requirements | Yes, No exemptions         |
| EU REACH SVHC                           |                            |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt% |

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