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# E-WMS 9,5 (EX16)RL - Shrink sleeve

1221591

https://www.phoenixcontact.com/gb/products/1221591

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Shrink sleeve, Roll, white, unlabeled, can be labeled with: THERMOMARK E.SLEEVE, THERMOMARK E.300 (D)/600 (D), cable diameter range: 3.2 ... 9.5 mm, mounting type: slide-on, cable diameter range (automated processing): 3.2 ... 8.5 mm, Number of individual labels: 1, roll length: 80 m, text field height: 16 mm

## Product description

The shrink sleeves in the E-WMS... product family are designed for automated processing with the THERMOMARK E.SLEEVE applicator. The continuous format of the material means that individual marker lengths can be realized. After the printing and application process, you have the option of shrinking the marked shrink sleeves by applying heat manually and thus fixing them on the cable/wire.

## Your advantages

- Permanent and captive identification of single-core wires, wires, cables, pneumatic hoses, and other cylindrical objects
- High flexibility, as individual marker lengths ranging from 15 mm ... 51 mm (0.59" ... 2.0") can be realized
- As an option, the sleeves can be shrunk by applying heat manually to fix the sleeve in position
- High diameter coverage with a shrink ratio of 3:1
- Widely used and proven worldwide in control cabinet and machine building, the oil and gas industry, and the railway industry

## Commercial data

| | |
|---|---|
| Item number | 1221591 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BG2216 |
| Product key | BG2216 |
| GTIN | 4063151310042 |
| Weight per piece (including packing) | 22.22 g |
| Weight per piece (excluding packing) | 941 g |
| Customs tariff number | 39173200 |
| Country of origin | CN |

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## Technical data

### Notes

| | |
|---|---|
| Note on application | For the THERMOMARK ROLL and THERMOMARK ROLL 2.0 roll printers, this material can only be processed with an external media hub. |
| Material information | The specified minimum wire diameter of the shrink sleeve refers to its use as a marking material and does not guarantee any insulation characteristics once shrunk.<br><br>Depending on the processed material batch, as well as the storage and processing conditions, the maximum insertable wire diameter may be reduced. |

### Product properties

| | |
|---|---|
| Product type | Shrink sleeve |
| Type | Shrink sleeve |

Marking

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

### Dimensions

| | |
|---|---|
| Width | 16 mm |
| Length of roll | 80.00 m |

External dimensions

| | |
|---|---|
| Outside diameter | 3.2 mm ... 9.5 mm |

Text field

| | |
|---|---|
| Text field height | 16 mm |

### Material specifications

| | |
|---|---|
| RoHS compliant | yes |
| Color | white (RAL 9010) |
| Material | Polyolefine |
| Base element material | polyolefine |
| Shrink rate | 3:1 |

### Cable/line

| | |
|---|---|
| External cable diameter | 3.2 mm ... 9.5 mm |

### Environmental and real-life conditions

Test for substances that would hinder coating with paint or varnish

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

Scratch test for the determining scratch resistance

| | |
|---|---|
| Specification | DIN EN ISO 1518-1:2019-10 (following) |

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| | |
|---|---|
| Requirements | ≥ 5 N |
| Result | Test passed |

Tesafilm test

| | |
|---|---|
| Specification | DIN EN ISO 2409:2013 (following) |
| Result | Test passed |

UV resistance

| | |
|---|---|
| Specification | ISO 4892-2:2013-03 (following) |
| Result | Test passed |
| Test duration | 96 h |

Temperature resistance

| | |
|---|---|
| Specification | ANSI/UL 969-2018:03 (following) |
| Test duration | 240 h |
| Rating 125 °C (150 °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) |
| 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 |
| Ethanol (99 %)<br>[CAS No. 64-17-5] | Test passed |
| Acetone (99 %)<br>[CAS No. 67-64-1] | 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 | DIN 50018:2013-05 |
| Result | Test passed |
| Climate level | AHT 1.0 S |

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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) | -55 °C ... 125 °C |
| Recommended ambient temperature (storage/transport) | 23 °C |
| Recommended humidity (storage/transport) | 50 % |
| Shelf life | 5 years |

## Standards and regulations

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

## Mounting

| | |
|---|---|
| Mounting type | slide-on |

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## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1221591

**cULus Recognized**
Approval ID: E310982_Vol2_Sec1

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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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