

WMS-2 HF 38,1(EX60)RL BU - Shrink sleeve



0864111

<https://www.phoenixcontact.com/us/products/0864111>

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Shrink sleeve, Roll, blue (RAL 5015), unmarked, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLLMASTER 300/600, THERMOMARK ROLL X1, THERMOMARK ROLL, THERMOMARK ROLL 2.0, THERMOMARK W, THERMOMARK X1.2, cable diameter range: 19.1 ... 38.1 mm, unperforated, mounting type: slide-on, Number of individual labels: 1, roll length: 80 m, text field height: 60 mm, text field width: 80000 mm

Product description

The continuous shrink sleeves in the WMS-2 HF... product family can be assembled to create individual marker lengths using the THERMOMARK E.CUTTER or E.CUTTER/P. After the printing, assembly, and applying 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 3.45 mm ... 2000 mm (0.14" ... 78.7") can be realized in combination with the cutter and perforation cutter
- 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 2:1
- Widely used and proven worldwide in the railway industry

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 0864111 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BG14 |
| Product key | BG2216 |
| GTIN | 4055626076560 |
| Weight per piece (including packing) | 6,950 g |
| Weight per piece (excluding packing) | 6,950 g |
| Customs tariff number | 39173200 |
| Country of origin | PL |

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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 | <p>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.</p> <p>Depending on the processed material batch, as well as the storage and processing conditions, the maximum insertable wire diameter may be reduced.</p> |

Product properties

| | |
|---------------------|------------------|
| Product type | Shrink sleeve |
| Area of application | Railway industry |

Marking

| | |
|-------------------------------------|----------------|
| Number of individual labels | 1 |
| Number of individual labels per row | 1 |
| Slot type | Shrink sleeve |
| Identification technology | Thermotransfer |

Dimensions

| | |
|----------------|---------|
| Length of roll | 80.00 m |
| Height | 61.8 mm |

Text field

| | |
|-------------------|----------|
| Text field width | 80000 mm |
| Text field height | 60 mm |

Material specifications

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|--------------------------------------------------------|-----------------|
| Color | blue (RAL 5015) |
| Base element material | polyolefine |
| Shrink rate | 2:1 |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 3 |
| Components | halogen-free |
| Shrink temperature | > 90 °C |

Cable/line

| | |
|-------------------------|---------------------|
| External cable diameter | 19.1 mm ... 38.1 mm |
|-------------------------|---------------------|

Environmental and real-life conditions

Ambient conditions

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| | |
|-----------------------------------------------------|------------------------------------------------------------------------------------------|
| Ambient temperature (operation) | -30 °C ... 105 °C |
| Recommended ambient temperature (storage/transport) | 10 °C |
| Recommended humidity (storage/transport) | 45 % ... 55 % (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 24364:2018-05 |
| Result | Test passed |

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 125 °C (150 °C) | Test passed |

Wipe resistance of inscriptions

| | |
|---------------------------------------------------|------------------------------------------------|
| Specification | DIN EN 61010-1 (VDE 0411-1):2011-07 |
| | 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

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|---------------|--------------------------|
| Specification | ISO 175:2010 (following) |
|---------------|--------------------------|

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|---------------------------------------------------|-------------|
| 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 |
| Acetone (99 %) [CAS No. 67-64-1] | Test passed |
| Diesel [CAS No. 68476-34-6] | Test passed |
| IRM 901 | Test passed |
| IRM 902 | Test passed |
| IRM 903 | Test passed |

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

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|---------------|--------------------------|
| Specification | DIN EN ISO 22479:2022-08 |
| Result | Test passed |
| Procedure | Method B |
| Cycles | 2 |

Salt spray test

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|---------------|-----------------------------------------------|
| Specification | DIN EN IEC 60068-2-11 (VDE 0468-2-11):2022-10 |
| Result | Test passed |
| Test duration | 96 h |

Standards and regulations

Standards

| | |
|-----------------------|------------|
| Standards/regulations | EN 45545-2 |
|-----------------------|------------|

Mounting

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

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Classifications

ECLASS

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

ETIM

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| ETIM 10.0 | EC001530 |
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UNSPSC

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

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Environmental product compliance

EU RoHS

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|-----------------------------------------|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|-----------------------------------------|--------------------|

EU REACH SVHC

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|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com