

WMS-2 HF 6,4 (60X10)RL CUS - Shrink sleeve



0833228

<https://www.phoenixcontact.com/us/products/0833228>

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Shrink sleeve, Roll, white (RAL 9010), labeled according to customer specifications, cable diameter range: 3.2 ... 6.4 mm: user-defined, perforated or cut, mounting type: slide-on, Number of individual labels: 1, text field height: 10 mm, text field width: 60 mm

Your advantages

- The hoses are preassembled for optimal use of the material
- The conductor to be marked is simply threaded through the sleeve and fixed by shrinking the sleeve
- WMS ... shrink sleeves provide permanent and captive conductor and cable marking
- The sleeves remain flexible after shrinking

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 0833228 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Product key | BG8126 |
| GTIN | 4055626044958 |
| Weight per piece (including packing) | 99.99 g |
| Weight per piece (excluding packing) | 99.99 g |
| Country of origin | PL |

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Technical data

Notes

| | |
|----------------------|---|
| 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 |
| Printing | user-defined |
| Slot type | Shrink sleeve |
| Identification technology | Thermotransfer |

Dimensions

| | |
|--------|-------|
| Width | 10 mm |
| Length | 60 mm |

Text field

| | |
|-------------------|-------|
| Text field width | 60 mm |
| Text field height | 10 mm |

Material specifications

| | |
|--|------------------|
| Color | white (RAL 9010) |
| Material | Polyolefine |
| 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 | 3.2 mm ... 6.4 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 0411-01):2020-03 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

| | |
|---------------|--------------------------|
| 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 |
| Methylethylketone (MEK) [CAS No. 78-93-3] | 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

| | |
|---------------|----------------------|
| Specification | EN ISO 22479:2022-06 |
| 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 |
| Test duration | 96 h |

Standards and regulations

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

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

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