

# WMS-2 HF 19,1 (60X30)RL CUS - Shrink sleeve



0833236

<https://www.phoenixcontact.com/us/products/0833236>

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Shrink sleeve, Roll, white (RAL 9010), labeled according to customer specifications, cable diameter range: 9.5 ... 19.1 mm: user-defined, Cut, mounting type: slide-on, Number of individual labels: 1, text field height: 30 mm, text field width: 60 mm

## Your advantages

- The hoses are preassembled for optimal use of the material
- WMS ... shrink sleeves provide permanent and captive conductor and cable marking
- The sleeves remain flexible after shrinking

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 0833236                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | BG8126                         |
| GTIN                                 | 4055626045030                  |
| Weight per piece (including packing) | 2.952 g                        |
| Weight per piece (excluding packing) | 2.952 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           | Thermal transfer |

### Dimensions

|        |       |
|--------|-------|
| Width  | 30 mm |
| Length | 60 mm |

### Text field

|                   |       |
|-------------------|-------|
| Text field width  | 60 mm |
| Text field height | 30 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 | 9.5 mm ... 19.1 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 %              |

## 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<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  |
| Sodium hydroxide 0.1 mol/l<br>[CAS No. 1310-73-2] | Test passed  |
| Ethanol (99 %)<br>[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<br>[CAS No. 1310-73-2] | Test passed |
| Saltwater (saturated 350 g/l)<br>[CAS No. - ]     | Test passed |
| Ethanol (99 %)<br>[CAS No. 64-17-5]               | Test passed |
| Acetone (99 %)<br>[CAS No. 67-64-1]               | Test passed |
| Methylethylketone (MEK)<br>[CAS No. 78-93-3]      | Test passed |
| Diesel<br>[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

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

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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 |
|---|--------------------|

### EU REACH SVHC

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

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