

# E-WML 4 (13X6)R - Wire-wrap label

1199658

<https://www.phoenixcontact.com/us/products/1199658>

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Wire-wrap label, Roll, white (RAL 9010), unmarked, can be labeled with: THERMOMARK E. WRAP, cable diameter range: 2 ... 4 mm, mounting type: adhesive, Number of individual labels: 7450, text field height: 6.4 mm, text field width: 12.7 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	1199658
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BG15
Product key	BG2311
GTIN	4063151262648
Weight per piece (including packing)	523.4 g
Weight per piece (excluding packing)	391.9 g
Customs tariff number	39191012
Country of origin	FR

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## Technical data

### Product properties

Product type	Conductor marker
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### Marking

Number of individual labels	7450
Number of individual labels per row	1
Identification technology	Thermotransfer

### Dimensions

Width	12.7 mm
Height	19.1 mm
Depth	0.1 mm

### Text field

Text field width	12.7 mm
Text field height	6.4 mm

### Material specifications

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

### Cable/line

External cable diameter	4.00 mm
	2 mm ... 4 mm

### Environmental and real-life conditions

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 80 °C
Recommended ambient temperature (storage/transport)	20 °C
Recommended humidity (storage/transport)	40 % ... 50 % (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-	VDMA 24364-A1-L:2018-05
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conformity)	
Result	Test passed

## Scratch resistance

Specification	EN ISO 1518-1:2023 (following)
Requirements	≥ 5 N
Result	Test passed

## Tesafilem 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 storage

Specification	IEC 60068-2-2:2007-07
Result	Test passed
Procedure	Test Bb
Duration	96 h
Temperature for testing	90 °C

## Moisture heat storage

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 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

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Acetone (99 %) [CAS No. 67-64-1]	Test passed
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## Immersion in chemicals, oil & fuel

Specification	ISO 175:2010 (following)
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
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)
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## 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-13.0	27281102
ECLASS-15.0	27281102

### ETIM

ETIM 10.0	EC001530
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### UNSPSC

UNSPSC 21.0	39131500
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### EU REACH SVHC

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