

# PATG HF 1/12 - Conductor marker carrier

1014045

<https://www.phoenixcontact.com/us/products/1014045>

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Conductor marker carrier, Mixed color, unmarked, cable diameter range: 1.3 ... 2.8 mm, mounting type: slide-on, text field height: 4 mm, text field width: 12 mm

## Your advantages

- The PATG HF... sleeve is a captive marker carrier
- These conductor marking systems consist of marker carriers and insert labels
- Comprehensive approvals ensure international use
- The use of high-quality plastics supports the most stringent demands of the rail industry and the automotive industry
- The corresponding UCT-WMT... and UC-WMT... insert labels are used for marking
- Due to the plastic properties of the PATG HF..., high-quality fluid printing of the UC-WMT... with the BLUEMARK... is required

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1014045       |
| Packing unit                         | 1,000 pc      |
| Minimum order quantity               | 1,000 pc      |
| Sales key                            | BG12          |
| Product key                          | BG221A        |
| GTIN                                 | 4046356779326 |
| Weight per piece (including packing) | 0.152 g       |
| Weight per piece (excluding packing) | 0.148 g       |
| Customs tariff number                | 39269097      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|              |                 |
|--------------|-----------------|
| Product type | Marker carriers |
|--------------|-----------------|

### Dimensions

|        |        |
|--------|--------|
| Width  | 12 mm  |
| Height | 5.7 mm |
| Depth  | 5.7 mm |

### Text field

|                   |       |
|-------------------|-------|
| Text field width  | 12 mm |
| Text field height | 4 mm  |

### Material specifications

|  |  |
|--|--|
| Color  | multicolored (RAL -)                     |
|  | transparent                              |
|  | black (RAL 9005)                         |
| Material   | TPU                                      |
| Base element material                                  | TPU                                      |
| 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   | free from silicone, halogen, and cadmium |

### Cable/line

|                         |                   |
|-------------------------|-------------------|
| External cable diameter | 1.3 mm ... 2.8 mm |
|-------------------------|-------------------|

### Environmental and real-life conditions

#### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)                     | -40 °C ... 85 °C |
| Recommended ambient temperature (storage/transport) | 23 °C            |
| Recommended humidity (storage/transport)            | 50 %             |

#### Test for substances that would hinder coating with paint or varnish

|   |                         |
|---|-------------------------|
| Testing for paint wetting impairment substances (LABS-conformity) | VDMA 24364-A1-L:2018-05 |
| Result  | Test passed             |

#### UV resistance

|               |                                       |
|---------------|---------------------------------------|
| Specification | DIN EN ISO 4892-2:2021-11 (following) |
| Result        | Test passed                           |
| Test duration | 96 h                                  |
| Procedure     | Artificial irradiation.               |

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## Temperature resistance

|                        |                                 |
|------------------------|---------------------------------|
| Specification          | ANSI/UL 969-2018:03 (following) |
| Test duration          | 240 h                           |
| Rating 100 °C (121 °C) | Test passed                     |

## Immersion in chemicals, oil & fuel

|   |                          |
|---|--------------------------|
| Specification                                     | ISO 175:2010 (following) |
| 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              |
| Gasoline<br>[CAS No. 64742-49-0]                  | 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 | DIN EN ISO 22479:2022-08 |
| 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

### Standards

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

## Mounting

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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27281105 |
| ECLASS-15.0 | 27281105 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002248 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.003 kg CO2e |
|---------|---------------|

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