



Color: ■ dark gray

### Material data

Note (material data)	<a href="#">Information on material specifications can be found here</a>
Color	dark gray
Fire load	0.018 MJ
Weight	0.6 g

### Environmental requirements

#### Environmental Testing

Test specification: Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06
Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests	DIN EN 61373 (VDE 0115-0106):2011-04
Spectrum/Mounting location	Service life test, Category 1, Class A/B
Functional test with noise-like oscillations	Test passed according to Section 8 of the standard
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
Acceleration	0.101g (highest test level used for all axes)
Test duration per axis	10 min.
Test directions	X, Y and Z axes
Monitoring of contact faults and interruptions	Passed
Voltage drop measurement before and after each axis	Passed
Simulated service life test through increased levels of noise-like oscillations	Test passed according to Section 9 of the standard
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
Acceleration	0.572g (highest test level used for all axes)
Test duration per axis	5 h
Test directions	X, Y and Z axes

#### Environmental Testing

Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Shock test	Test passed according to Section 10 of the standard
Shock pulse form	Half sine
Acceleration	5g (highest test level used for all axes)
Shock duration	30 ms
Number of shocks (per axis)	3 pos. und 3 neg.
Test directions	X, Y and Z axes
Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Vibration and shock stress for rolling stock equipment	Passed

**Commercial data**

Product Group	22 (TOPJOB S)
PU (SPU)	200 (25) pcs
Packaging type	Box
Country of origin	DE
GTIN	4017332999328
Customs tariff number	39269097900

**Product Classification**

UNSPSC	39121409
eCl@ss 10.0	27-14-11-92
eCl@ss 9.0	27-14-11-92
ETIM 9.0	EC002848
ETIM 10.0	EC002848
ECCN	NO US CLASSIFICATION

**Environmental Product Compliance**

RoHS Compliance Status	Compliant, No Exemption
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**Approvals / Certificates**

**Declarations of conformity and manufacturer's declarations**



Approval	Standard	Certificate Name
Railway WAGO GmbH & Co. KG	-	Railway Ready

**Downloads**





**Environmental Product Compliance**

Compliance Search	
Environmental Product Compliance 2002-172	<a href="#">↓</a>

**Documentation**

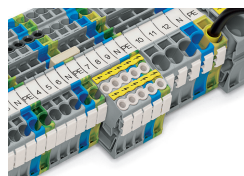
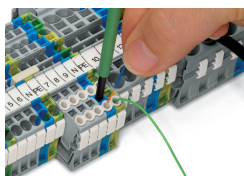
Bid Text			
2002-172	27.04.2017	doc 23.50 KB	<a href="#">↓</a>
2002-172	19.02.2019	xml 2.53 KB	<a href="#">↓</a>

### CAD/CAE-Data

CAD data	CAE data
2D/3D Models 2002-172 	EPLAN Data Portal 2002-172 
	WSCAD Universe 2002-172 
	ZUKEN Portal 2002-172 

### Installation Notes

#### Conductor termination



Conductor termination – insulation stop

Insulation stop (2002-171) and protective warning marker (2002-115)