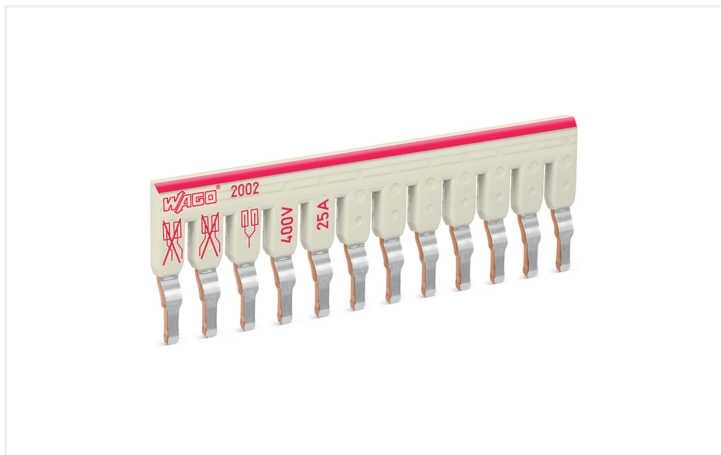


**Data Sheet | Item Number: 2002-482**  
Staggered jumper; 12-way; insulated; light gray

<https://www.wago.com/2002-482>



Color: ■ light gray

#### Technical data

Number of spacings 12 -times

#### Electrical data

Rated current 25 A

#### Physical data

Width 61.2 mm / 2.409 inches

#### Material data

Color light gray

Fire load 0.019 MJ

Weight 6.1 g

#### Commercial data

Product Group 22 (TOPJOB S)

PU (SPU) 25 pcs

Packaging type Bag

Country of origin DE

GTIN 4055143692366

Customs tariff number 85366990990

### Product Classification

UNSPSC	39121410
eCl@ss 10.0	27-14-11-40
eCl@ss 9.0	27-14-11-40
ETIM 9.0	EC000489
ETIM 10.0	EC000489
ECCN	NO US CLASSIFICATION

### Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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### 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
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

## 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 2002-482 <a href="#">↓</a>

## Documentation

Bid Text			
2002-482	19.02.2019	xml 2.72 KB	<a href="#">↓</a>
2002-482	27.04.2017	doc 24.00 KB	<a href="#">↓</a>

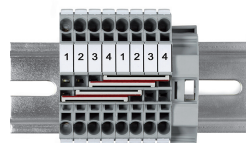
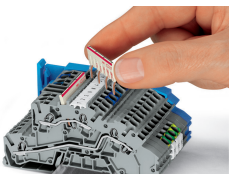
## CAD/CAE-Data

CAD data
2D/3D Models 2002-482 <a href="#">↓</a>

CAE data
EPLAN Data Portal 2002-482 <a href="#">↓</a>
WSCAD Universe 2002-482 <a href="#">↓</a>
ZUKEN Portal 2002-482 <a href="#">↓</a>

## Installation Notes

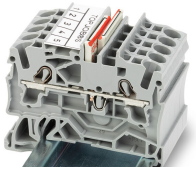
### Commoning



Orient the staggered jumpers' red stripes on the inside.  
Insert the staggered jumper and push down until it hits the backstop.

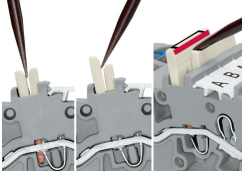
Commoning two potentials in one single jumper slot via extremely slim staggered jumpers.

## Commoning



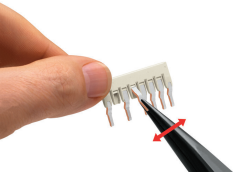
Orient the staggered jumper's red stripes on the inside.  
Insert the staggered jumper and push down until it hits the backstop.

## Commoning

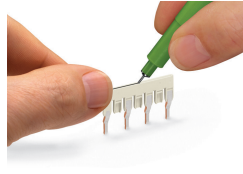


**Removing a staggered jumper:**  
Insert the operating tool between the staggered jumpers, then lift up the jumper.

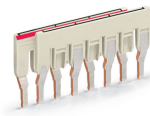
## Commoning



**Staggered jumper (seven contacts)**  
Breaking off contact lugs. Individual jumper contacts can be broken off by bending them. The remaining piece of insulation will meet requirements for clearances and creepage distances.



**Staggered jumpers**  
Marking with a felt-tip pen.



**Staggering jumpers in a single jumper slot:**  
Custom staggered jumpers can be created, e.g., for bridging over a terminal block with a different potential. Make sure that only one contact lug is in contact with the terminal block.  
The contact lugs of the customized staggered jumpers contact the terminal blocks via the gaps created in the second jumper. Insert and press the ready-made jumper assembly into the jumper slot until it hits the backstop.