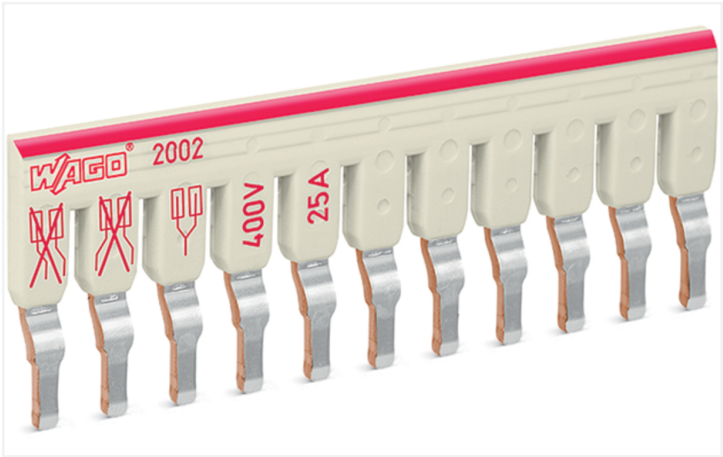




Color: ■ light gray

Electrical data

Ratings per IEC/EN	
Nominal voltage (III/3)	400 V
Rated impulse withstand voltage (III / 3)	6 kV
Rated current	25 A

Physical data

Width	56 mm / 2.205 inches
Jumper assignment	1-2-3-4-5-6-7-8-9-10-11

Material data

Note (material data)	Information on material specifications can be found here
Color	light gray
Fire load	0.02 MJ
Weight	5.6 g

Environmental requirements

Environmental Testing (Environmental Conditions)		Environmental Testing (Environmental Conditions)	
Test specification Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06	Test duration per axis	10 min. 5 h
Test procedure Railway applications – Rolling stock equipment – Shock and vibration tests	DIN EN 61373 (VDE 0115-0106):2011-04	Test directions	X, Y and Z axes X, Y and Z axes X, Y and Z axes
Spectrum/Installation location	Service life test, Category 1, Class A/B	Monitoring for contact faults/interrupti- ons	Passed
Function test with noise-like vibration	Test passed according to Section 8 of the standard	Voltage drop measurement before and after each axis	Passed
Frequency	f ₁ = 5 Hz to f ₂ = 150 Hz f ₁ = 5 Hz to f ₂ = 150 Hz	Simulated service life test through incre- ased levels of noise-like vibration	Test passed according to Section 9 of the standard
Acceleration	0.101g (highest test level used for all axes) 0.572g (highest test level used for all axes) 5g (highest test level used for all axes)	Extended test scope: Monitoring for con- tact faults/interruptions	Passed Passed
		Extended test scope: Voltage drop mea- surement before and after each axis	Passed Passed
		Shock test	Test passed according to Section 10 of the standard



Environmental Testing (Environmental Conditions)	
Shock form	Half sine
Shock duration	30 ms
Number of shocks per axis	3 pos. und 3 neg.
Vibration and shock stress for rolling stock equipment	Passed

Commercial data	
Product Group	22 (TOPJOB S)
PU (SPU)	25 pcs
Packaging type	Bag
Country of origin	DE
GTIN	4055143692359
Customs tariff number	85366990990

Product classification	
UNSPSC	39121410

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

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 2002-481	

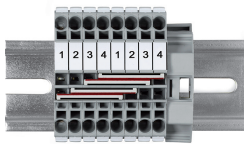
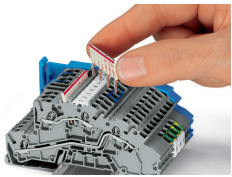
Documentation

Bid Text			
2002-481	19.02.2019	xml 2.62 KB	
2002-481	27.04.2017	doc 24.00 KB	

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 2002-481	EPLAN Data Portal 2002-481
	WSCAD Universe 2002-481
	ZUKEN Portal 2002-481

Installation Notes

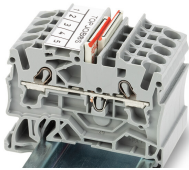
Commoning



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

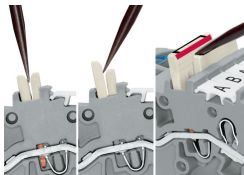
Commoning two potentials in one single jumper slot via extremely slim staggered jumpers.

Commoning



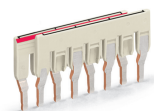
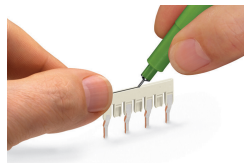
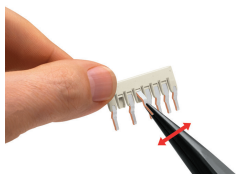
Orient the staggered jumpers' red stripes on the inside.
Insert the staggered jumper and push down until it hits the backstop.

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.