

SC 4/11 - COMBI coupling



3042544

<https://www.phoenixcontact.com/us/products/3042544>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



COMBI coupling, nom. voltage: 800 V, nominal current: 32 A, number of connections: 2, number of positions: 11, connection method: Spring-cage connection, Rated cross section: 4 mm², cross section: 0.08 mm² - 6 mm², color: gray

Your advantages

- Standard strain relief can be used
- Tested for railway applications

Commercial data

Item number	3042544
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE02
Product key	BE2145
Catalog page	Page 341 (C-1-2019)
GTIN	4046356012683
Weight per piece (including packing)	57.99 g
Weight per piece (excluding packing)	57.99 g
Customs tariff number	85366990
Country of origin	PL

SC 4/11 - COMBI coupling

3042544

<https://www.phoenixcontact.com/us/products/3042544>



Technical data

Product properties

Product type	Terminal coupling
Area of application	Railway industry
	Machine building
	Plant engineering
Number of positions	11
Pitch	6.2 mm
Number of connections	2
Number of rows	1

Data management status

Article revision	03
------------------	----

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	1.02 W

Connection data

Nominal cross section	4 mm ²
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A4
Connection in acc. with standard	IEC 61984
Conductor cross section rigid	0.08 mm ² ... 6 mm ²
Cross section AWG	28 ... 10 (converted acc. to IEC)
Conductor cross section flexible	0.08 mm ² ... 4 mm ²
Conductor cross section, flexible [AWG]	28 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm ² ... 4 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm ² ... 4 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 1 mm ²
Nominal current	32 A
Maximum load current	32 A (with 6 mm ² conductor cross section)
Nominal voltage	800 V
Nominal cross section	4 mm ²

Dimensions

Width	68.2 mm
End cover width	3.2 mm
Height	48.6 mm

SC 4/11 - COMBI coupling



3042544

<https://www.phoenixcontact.com/us/products/3042544>

Depth	22.3 mm
Pitch	6.2 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
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
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

Electrical tests

Surge voltage test

Result	Test passed
Short-time withstand current 4 mm ²	0.48 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	Yes
-----------------	-----

Mechanical tests

Attachment on the carrier

Result	Test passed
--------	-------------

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
Result	Test passed

SC 4/11 - COMBI coupling



3042544

<https://www.phoenixcontact.com/us/products/3042544>

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Service life test category 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	$0.964 \text{ (m/s}^2\text{)}^2\text{/Hz}$
Acceleration	0.58g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

Ambient conditions

Ambient temperature (operation)	-60 °C (max. operating temperature see derating curve)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, no longer than 24 h, -60°C to +70°C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

Standards and regulations

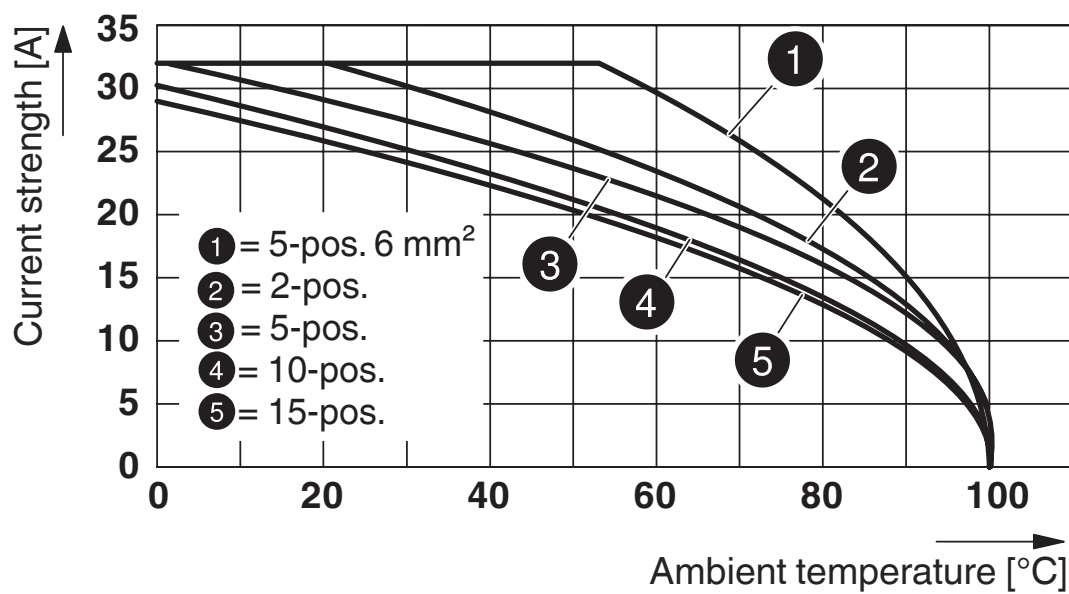
Connection in acc. with standard	IEC 61984
----------------------------------	-----------

Drawings

Circuit diagram



Diagram



SC 4/11 - COMBI coupling

3042544
<https://www.phoenixcontact.com/us/products/3042544>



Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3042544>

**EAC**
Approval ID: RU C-DE.BL08.B.00511

	cULus Recognized Approval ID: E60425			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	600 V	30 A	28 - 10	-
Use group C				
	600 V	30 A	28 - 10	-

SC 4/11 - COMBI coupling

3042544

<https://www.phoenixcontact.com/us/products/3042544>



Classifications

ECLASS

ECLASS-11.0	27141151
ECLASS-12.0	27141151
ECLASS-13.0	27250306

ETIM

ETIM 9.0	EC002021
----------	----------

UNSPSC

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

SC 4/11 - COMBI coupling

3042544

<https://www.phoenixcontact.com/us/products/3042544>



Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com