

Cable connector - ST-7ES1N8A8005S



1624556

<https://www.phoenixcontact.com/pc/products/1624556>

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.



Cable connector, straight, SPEEDCON locking, M17, number of positions: 7+PE, type of contact: Socket, shielded: yes, degree of protection: IP67, cable diameter range: 10 mm ... 12.5 mm, number of positions: 8, connection method: Crimp connection, series: ST

Your advantages

- Consistent EMC protection for reliable connection solutions in the industrial environment
- Crimping connection: vibration- and temperature-resistant assembly
- Flexible use: reliably connect various cable diameters
- Molded designs with pre-assembled cables on one or both sides

Cable connector - ST-7ES1N8A8005S



1624556

<https://www.phoenixcontact.com/pc/products/1624556>

Commercial Data

Item number	1624556
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Product Key	ABRCAH
Catalog Page	Page 136 (C-2-2019)
GTIN	4046356622943
Weight per Piece (including packing)	67.1 g
Weight per Piece (excluding packing)	55.3 g
Customs tariff number	85366990
Country of origin	DE

Technical Data

Notes

Order information:	Order crimp contacts Ø 1 mm separately
--------------------	--

Safety note

Safety note	<p>WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p>
	<ul style="list-style-type: none"> • WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.
	<ul style="list-style-type: none"> • WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.
	<ul style="list-style-type: none"> • The products are suitable for applications in plant, controller, and electrical device engineering.
	<ul style="list-style-type: none"> • When operating the connectors in outdoor applications, they must be separately protected against environmental influences.
	<ul style="list-style-type: none"> • Assembled products may not be manipulated or improperly opened.
	<ul style="list-style-type: none"> • Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products).
	<ul style="list-style-type: none"> • When using the product in direct connection with third-party manufacturers, the user is responsible.
	<ul style="list-style-type: none"> • For operating voltages > 50 V AC, conductive connector housings must be grounded
	<ul style="list-style-type: none"> • Ensure that the protective or functional ground has been properly connected.
	<ul style="list-style-type: none"> • VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector
	<ul style="list-style-type: none"> • Only use tools recommended by Phoenix Contact
	<ul style="list-style-type: none"> • The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.
	<ul style="list-style-type: none"> • Operate the connector only when it is fully plugged in and interlocked.
<ul style="list-style-type: none"> • Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards. 	
<ul style="list-style-type: none"> • Observe the minimum bending radius of the cable. Lay the cable without twisting it. 	
<ul style="list-style-type: none"> • The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting 	

Cable connector - ST-7ES1N8A8005S



1624556

<https://www.phoenixcontact.com/pc/products/1624556>

warnings (e.g. DIN EN ISO 13732-1:2008-12).

Product properties

Product type	Circular connector (cable-side)
Number of positions	8
Connection profile	7+PE
Application	Power
Locking type	SPEEDCON locking
Series	ST
Shielded	yes
Coding	N
Thread type	M17

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 125 °C
Altitude	2000 m

Connector

Type	straight
Direction of rotation	Standard

Electrical properties

Contact

Contact diameter	1 mm
Max. current	14 A
Nominal voltage U_N	630 V
Overvoltage category	III
Rated surge voltage	6 kV

Contact

Contact diameter	1 mm
------------------	------

Material specifications

Seal material	FPM
Housing material	Metal

Connection data

Conductor connection

Connection method	Crimp connection
-------------------	------------------

Cable / line

Cable structure

External cable diameter	10 mm ... 12.5 mm
-------------------------	-------------------

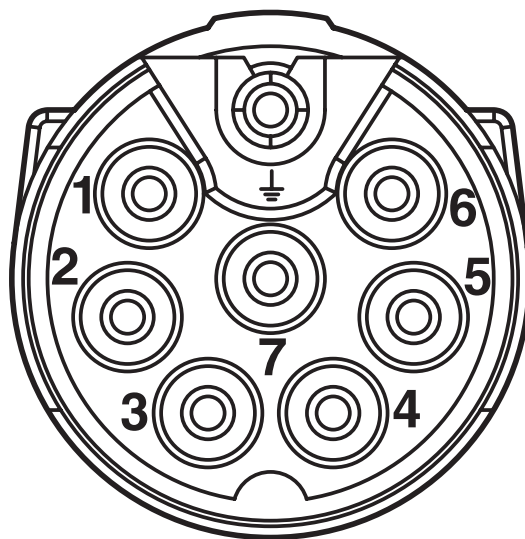
Cable connector - ST-7ES1N8A8005S

1624556

<https://www.phoenixcontact.com/pc/products/1624556>

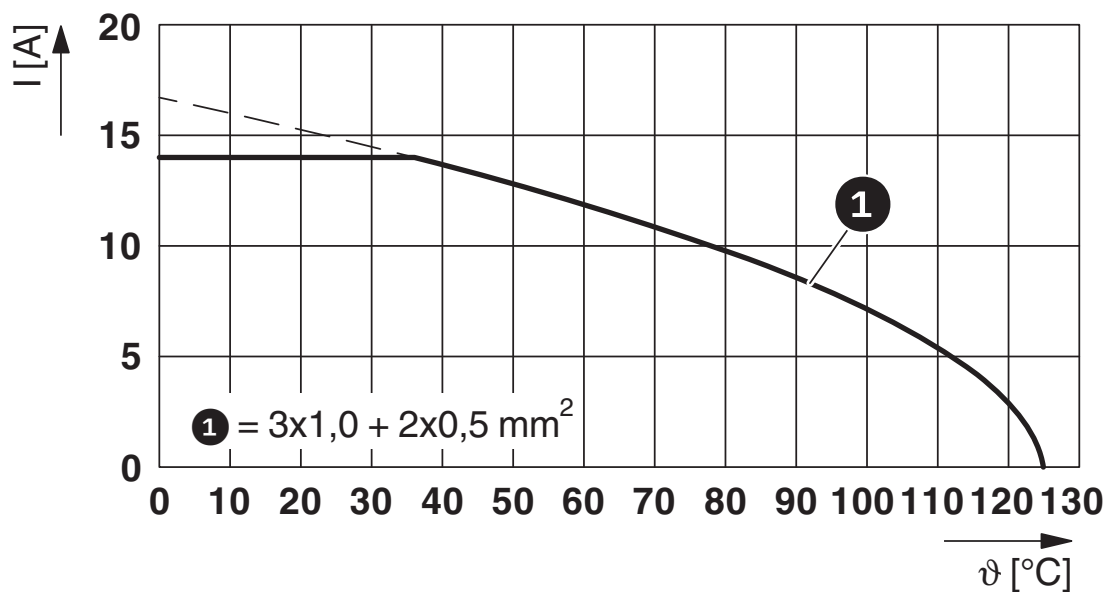
Drawings

Schematic diagram



Connector pin assignment

Diagram



I = current strength, ϑ = ambient temperature, 3x 14 A + 2x 2 A constant

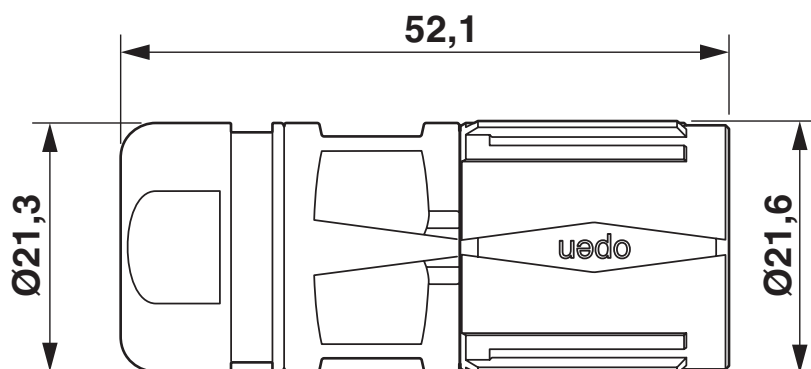
Cable connector - ST-7ES1N8A8005S

1624556

<https://www.phoenixcontact.com/pc/products/1624556>



Dimensional drawing




Cable connector - ST-7ES1N8A8005S





1624556


<https://www.phoenixcontact.com/pc/products/1624556>


Approvals


 UL Recognized Approval ID: E153698-20140124				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Power	600 V	5 A	-	-
Signal	600 V	4 A	-	-


 cUL Recognized Approval ID: E153698-20140124				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Power	600 V	5 A	-	-
Signal	600 V	4 A	-	-

 cUL Recognized Approval ID: FILE E 335019				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Power	600 V	5 A	-	-
Signal	600 V	4 A	-	-

 UL Recognized Approval ID: FILE E 335019				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Power	600 V	5 A	-	-
Signal	600 V	4 A	-	-

 EAC Approval ID: B.01687				
--	--	--	--	--

 UL Listed Approval ID: E468743-20210825				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Power	600 V	10 A	-	- 18
Signal	60 V	2 A	-	- 18

 cUL Listed Approval ID: E468743-20210825				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Power	600 V	8 A	- 18	-
Signal	60 V	2 A	- 18	-

Cable connector - ST-7ES1N8A8005S

1624556

<https://www.phoenixcontact.com/pc/products/1624556>



cULus Listed

Cable connector - ST-7ES1N8A8005S



1624556

<https://www.phoenixcontact.com/pc/products/1624556>

Classifications

ECLASS

ECLASS-9.0	27440102
ECLASS-10.0.1	27440102
ECLASS-11.0	27440102

ETIM

ETIM 8.0	EC002635
----------	----------

UNSPSC

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

Cable connector - ST-7ES1N8A8005S



1624556

<https://www.phoenixcontact.com/pc/products/1624556>

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

Cable connector - ST-7ES1N8A8005S

1624556

<https://www.phoenixcontact.com/pc/products/1624556>

Accessories

Crimp contact

Crimp contact - ST-10KS010 - 1618239

<https://www.phoenixcontact.com/pc/products/1618239>



Crimp contact, turned, Single contact, contact diameter: 1 mm, crimp range: 0.06 mm² ... 0.25 mm²

Crimp contact

Crimp contact - ST-10KS035 - 1618464

<https://www.phoenixcontact.com/pc/products/1618464>



Crimp contact, turned, contact diameter: 1 mm, crimp range: 0.25 mm² ... 1 mm²

Cable connector - ST-7ES1N8A8005S

1624556

<https://www.phoenixcontact.com/pc/products/1624556>

Protective cap

Protective cap - ST-Z0007 - 1607777

<https://www.phoenixcontact.com/pc/products/1607777>



Plastic protection cap for connectors with M17 knurled nut and M17 SPEEDCON knurled nut

Color-coding

Color-coding - ST-Z0016 - 1617993

<https://www.phoenixcontact.com/pc/products/1617993>



Color-coding, color: green

Cable connector - ST-7ES1N8A8005S

1624556

<https://www.phoenixcontact.com/pc/products/1624556>

Color-coding

Color-coding - ST-Z0017 - 1618049

<https://www.phoenixcontact.com/pc/products/1618049>

Color-coding, color: orange



Color-coding

Color-coding - ST-Z0018 - 1618050

<https://www.phoenixcontact.com/pc/products/1618050>

Color-coding, color: black



Cable connector - ST-7ES1N8A8005S

1624556

<https://www.phoenixcontact.com/pc/products/1624556>

Square mounting flange with O-ring

Square mounting flange with O-ring - ST-Z0002 - 1607771

<https://www.phoenixcontact.com/pc/products/1607771>



Square mounting flange with O-ring, Axial O-ring, 4x Ø2,7, series: ST

Square mounting flange with O-ring

Square mounting flange with O-ring - ST-Z0003 - 1607772

<https://www.phoenixcontact.com/pc/products/1607772>



Square mounting flange with O-ring, Axial O-ring, 4xM3, series: ST

Cable connector - ST-7ES1N8A8005S

1624556

<https://www.phoenixcontact.com/pc/products/1624556>

Square mounting flange

Square mounting flange - ST-Z0004 - 1607773

<https://www.phoenixcontact.com/pc/products/1607773>



Square mounting flange, 4x Ø2,7, series: ST

Square mounting flange

Square mounting flange - ST-Z0005 - 1607775

<https://www.phoenixcontact.com/pc/products/1607775>



Square mounting flange, 4xM3, series: ST

Phoenix Contact 2022 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com