

0804509
<https://www.phoenixcontact.com/pc/products/0804509>

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.



Socket, with light indicator, Typ: AB 20A, connection method: Screw connection, color: gray, nom. voltage: 125 V AC (60 Hz), nominal current: 20 A, for mounting on a DIN rail in the service interface or direct mounting, standards/specifications: UL 508, IEC 60884-1, Country marking: USA, Canada

Commercial data

Item number	0804509
Packing unit	5 pc
Minimum order quantity	5 pc
Product key	BE7613
GTIN	4055626396477
Weight per piece (including packing)	82.07 g
Weight per piece (excluding packing)	82.07 g
Customs tariff number	85366990
Country of origin	PL

Technical data

Notes

General

Note	The nominal current does not apply for fuse versions. In this case, the current is determined by the fuse.
------	--

Product properties

Product type	Socket
Country ID	USA
	Canada

Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 ... 0.6 Nm
Stripping length	8 mm
Internal cylindrical gage	A3
	B3
Conductor cross-section rigid	0.2 mm ² ... 4 mm ²
Cross section AWG	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible	0.25 mm ² ... 2.5 mm ²
Conductor cross-section, flexible [AWG]	24 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm ² ... 2.5 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm ² ... 2.5 mm ²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.2 mm ² ... 4 mm ²
Nominal current	20 A
Nominal voltage	125 V AC (60 Hz)

Signaling

Status display	yes
----------------	-----

Dimensions

Width	45 mm
Height	75 mm
Depth	58.9 mm
Depth on NS 35/7,5	60 mm
Depth on NS 35/15	67.5 mm
Hole diameter	4.4 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0

EO-AB/UT/LED/20 - Socket



0804509

<https://www.phoenixcontact.com/pc/products/0804509>

Insulating material	PA
Contact material	CuZn38
Static insulating material application in cold	-60 °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
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

Connector

Type of plug	Typ: AB 20A
--------------	-------------

Environmental and real-life conditions

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2022-06
Spectrum	Long life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	$6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2022-06
Pulse shape	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-5 °C ... 40 °C (according to IEC 60884-1, average value over a period of 24 hours not above +35°C)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Permissible humidity (storage/transport)	30 % ... 70 %

Standards and regulations

Standards

EO-AB/UT/LED/20 - Socket



0804509

<https://www.phoenixcontact.com/pc/products/0804509>

Standards/regulations	UL 508
	IEC 60884-1

Mounting

Mounting type	for mounting on a DIN rail in the service interface or direct mounting
---------------	--

EO-AB/UT/LED/20 - Socket



0804509

<https://www.phoenixcontact.com/pc/products/0804509>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/0804509>

UL Listed Approval ID: E238705				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	125 V	20 A	-	-

cUL Listed Approval ID: E238705				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	125 V	20 A	-	-

EAC-RoHS Approval ID: RU D-DE.HB49.B.00025				
--	--	--	--	--

EAC Approval ID: KZ7500651131219505				
---	--	--	--	--

EO-AB/UT/LED/20 - Socket

0804509

<https://www.phoenixcontact.com/pc/products/0804509>



Classifications

ECLASS

ECLASS-13.0	27142305
ECLASS-15.0	27142305

ETIM

ETIM 9.0	EC001663
----------	----------

UNSPSC

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

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	56a32314-2065-462b-89a9-417ec1fb4256

EO-AB/UT/LED/20 - Socket



0804509

<https://www.phoenixcontact.com/pc/products/0804509>

Accessories

UC-TMF 16 - Marker for terminal blocks

0819262

<https://www.phoenixcontact.com/pc/products/0819262>



Marker for terminal blocks, Sheet, white, unmarked, can be labeled with: BLUEMARK E.CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 16 mm, Number of individual labels: 32, text field height: 5.1 mm, text field width: 15.45 mm

ZBF 16:UNPRINTED - Zack Marker strip, flat

0827464

<https://www.phoenixcontact.com/pc/products/0827464>



Zack Marker strip, flat, Strip, white, unmarked, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 16 mm, Number of individual labels: 50, text field height: 10.5 mm, text field width: 16.25 mm

EO-AB/UT/LED/20 - Socket

0804509

<https://www.phoenixcontact.com/pc/products/0804509>



EO-SI-FRAME - Adapter plate

0804522

<https://www.phoenixcontact.com/pc/products/0804522>

Adapter plate



SI-M1A - Mounting frame

1404493

<https://www.phoenixcontact.com/pc/products/1404493>

Mounting frame for one front plate/socket, plastic frame: black, plastic cover: transparent, closed with 3 mm two-way key bit and rotary knob, included.



EO-AB/UT/LED/20 - Socket

0804509

<https://www.phoenixcontact.com/pc/products/0804509>



SI-M1B - Mounting frame

1404494

<https://www.phoenixcontact.com/pc/products/1404494>

Mounting frame for two front plates/sockets, plastic frame: black, plastic cover: transparent, closed with 3 mm two-way key bit and rotary knob, included.



SI-M1A-GL - Mounting frame

1407592

<https://www.phoenixcontact.com/pc/products/1407592>

Mounting frame for one front plate/socket, plastic frame: black, plastic cover: gray, closed with 3 mm two-way key bit and rotary knob, included.



EO-AB/UT/LED/20 - Socket

0804509

<https://www.phoenixcontact.com/pc/products/0804509>



SI-M1B-GL - Mounting frame

1407593

<https://www.phoenixcontact.com/pc/products/1407593>

Mounting frame for two front plates/sockets, plastic frame: black, plastic cover: gray, closed with 3 mm two-way key bit and rotary knob, included.



SI-M1A-ML - Mounting frame

1407588

<https://www.phoenixcontact.com/pc/products/1407588>

Mounting frame for one front plate/socket, plastic frame: black, plastic cover: metallic, closed with 3 mm two-way key bit and rotary knob, included.



EO-AB/UT/LED/20 - Socket

0804509

<https://www.phoenixcontact.com/pc/products/0804509>



SI-M1B-ML - Mounting frame

1407589

<https://www.phoenixcontact.com/pc/products/1407589>

Mounting frame for two front plates/sockets, plastic frame: black, plastic cover: metallic, closed with 3 mm two-way key bit and rotary knob, included.



VS-SI-EB-EMV-1 - Mounting frame

1656482

<https://www.phoenixcontact.com/pc/products/1656482>

Mounting frame, for one front plate or socket, metal frame, matt nickel-plated, electrically conductive, transparent cover



EO-AB/UT/LED/20 - Socket

0804509

<https://www.phoenixcontact.com/pc/products/0804509>



VS-SI-EB-EMV-2 - Mounting frame

1656495

<https://www.phoenixcontact.com/pc/products/1656495>

Mounting frame, for two front plates or sockets, metal frame, matt nickel-plated, electrically conductive, transparent cover



SZF 1-0,6X3,5 - Screwdriver

1204517

<https://www.phoenixcontact.com/pc/products/1204517>

Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip



Phoenix Contact 2025 © - 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