

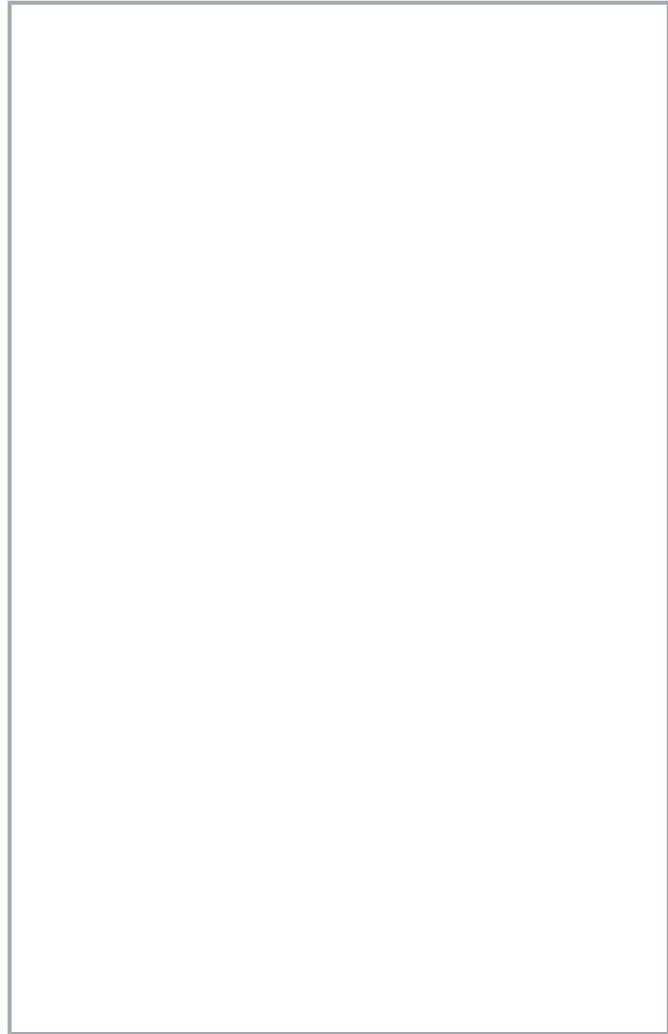
Data sheet | Item number: 2020-2231

1-conductor/1-pin double deck receptacle terminal block; Through/through terminal block; L/L; with marker carrier; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; gray

www.wago.com/2020-2231



Color:



Data

Electrical data

Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



Ratings per IEC/EN

Ratings per	IEC/EN 60947-7-1
Nominal voltage (III/3)	500 V
Rated impulse voltage (III/3)	6 kV
Rated current	13.5 A
Legend (ratings)	(III / 3) $\hat{=}$ Overvoltage category III / Pollution degree 3

Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	15 A
Rated voltage UL (Use Group C)	300 V
Rated current UL (Use Group C)	15 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	15 A

Ratings per CSA

Approvals per	CSA 22.2 No 158
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	10 A
Rated voltage CSA (Use Group C)	300 V
Rated current CSA (Use Group C)	10 A

Power Loss

Power loss, per pole (potential)	0.434 W
Rated current I_N for specified power loss	13.5 A
Resistance value for specified, current-dependent power loss	0.002 Ω

Connection data

Connection points	2
Female plug slots	2
Total number of potentials	2
Number of levels	2
Number of jumper slots	4
Number of jumper slots (rank)	1

Subject to changes. Please also observe the further product documentation!



Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper
Nominal cross-section	1 mm ²
Solid conductor	0.14 ... 1.5 mm ² / 24 ... 16 AWG
Solid conductor; push-in termination	0.5 ... 1.5 mm ² / 20 ... 16 AWG
Fine-stranded conductor	0.14 ... 1.5 mm ² / 24 ... 16 AWG
Fine-stranded conductor; with insulated ferrule	0.14 ... 0.75 mm ² / 24 ... 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 ... 0.75 mm ² / 20 ... 18 AWG
Note (conductor cross-section)	Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.
Strip length	9 ... 11 mm / 0.35 ... 0.43 inches
Wiring direction	Front-entry wiring

Physical data

Width	3.5 mm / 0.138 inches
Height	80.1 mm / 3.154 inches
Depth from upper-edge of DIN-rail	61.4 mm / 2.417 inches

Mechanical Data

Potential marking	L/L
Design	horizontal type
Mounting type	DIN-35 rail
Marking level	Side marking

Material Data

Note (material data)	Information on material specifications can be found here
Color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.211 MJ
Weight	8.7 g

Subject to changes. Please also observe the further product documentation!



Environmental requirements

Processing temperature	-35 ... +85 °C
Continuous operating temperature	-60 ... +105 °C

Commercial data

Product Group	18 (X-COM-System)
eCl@ss 10.0	27-14-11-20
eCl@ss 9.0	27-14-11-20
ETIM 8.0	EC000897
ETIM 7.0	EC000897
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	CN
GTIN	4050821049579
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
------------------------	-------------------------

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60947	NTR NL 7617
	CSA DEKRA Certification B.V.	C22.2	2516073
	KEMA/KEUR DEKRA Certification B.V.	EN 60947	71- 100670
	UL UL International Germany GmbH	UL 1059	E 45172

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
	UK-Declaration of Conformity	-	-

Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG
 Hansastr. 27
 32423 Minden
 Phone: +49571 887-0 | Fax: +49571 887-169
 Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
 We are always happy to take your call at +49 (571) 887-44222.



WAGO GmbH & Co. KG

Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	EN 60947	20- HG1941090- PDA
	BV Bureau Veritas S.A.	EN 60947	38586/B0 BV
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2
	LR Lloyds Register	EN 60947	91/20112 (E9)

Counterpart

Item no.2020-102 1-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; 1,50 mm²; gray	www.wago.com/2020-102
Item no.2020-202 2-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; 1,50 mm²; gray	www.wago.com/2020-202

Required accessories

End plate

End plate	
Item no.: 2020-2291 End and intermediate plate; 1 mm thick; gray	www.wago.com/2020-2291
Item no.: 2020-2292 End and intermediate plate; 1 mm thick; orange	www.wago.com/2020-2292

Optional accessories

Push-in type wire jumper

Jumper	
Item no.: 2009-404 Push-in type wire jumper; 0.75 mm²; insulated; 110 mm long; gray	www.wago.com/2009-404
Item no.: 2009-402 Push-in type wire jumper; 0.75 mm²; insulated; 60 mm long; gray	www.wago.com/2009-402
Item no.: 2009-406	www.wago.com/2009-406

Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG
 Hansastr. 27
 32423 Minden
 Phone: +49571 887-0 | Fax: +49571 887-169
 Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
 We are always happy to take your call at +49 (571) 887-44222.



Push-in type wire jumper; 0.75 mm²; insulated; 250 mm long; gray

Marking accessories

Marking strip

Item no.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

www.wago.com/2009-110

Marker

Item no.: 2009-113

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white

www.wago.com/2009-113

Item no.: 793-3501

WMB marking card; as card; plain; snap-on type; white

www.wago.com/793-3501

Coding

Coding

Item no.: 2020-100

Carrier with 6 coding pins; for coding of female plugs; for carrier terminal blocks; orange

www.wago.com/2020-100

Jumpers

Jumper

Item no.: 210-123

Wire commoning chain; insulated; blue

www.wago.com/210-123

Item no.: 2000-408

Jumper; 8-way; insulated; light gray

www.wago.com/2000-408

Item no.: 2000-407

Jumper; 7-way; insulated; light gray

www.wago.com/2000-407

Item no.: 2000-409

Jumper; 9-way; insulated; light gray

www.wago.com/2000-409

Item no.: 2000-408/000-006

Jumper; 8-way; insulated; blue

www.wago.com/2000-408/000-006

Item no.: 2000-408/000-005

Jumper; 8-way; insulated; red

www.wago.com/2000-408/000-005

Item no.: 2000-409/000-005

Jumper; 9-way; insulated; red

www.wago.com/2000-409/000-005

Item no.: 2000-407/000-006

Jumper; 7-way; insulated; blue

www.wago.com/2000-407/000-006

Item no.: 2000-410

Jumper; 10-way; insulated; light gray

www.wago.com/2000-410

Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG

Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.



Item no.: 2000-410/000-006
Jumper; 10-way; insulated; blue

www.wago.com/2000-410/000-006

Item no.: 2000-433/000-005
Jumper; from 1 to 3; insulated; red

www.wago.com/2000-433/000-005

Item no.: 2000-407/000-005
Jumper; 7-way; insulated; red

www.wago.com/2000-407/000-005

Item no.: 2000-433/000-006
Jumper; from 1 to 3; insulated; blue

www.wago.com/2000-433/000-006

Item no.: 2000-410/000-005
Jumper; 10-way; insulated; red

www.wago.com/2000-410/000-005

Item no.: 2000-435
Jumper; from 1 to 5; insulated; light gray

www.wago.com/2000-435

Item no.: 2000-409/000-006
Jumper; 9-way; insulated; blue

www.wago.com/2000-409/000-006

Item no.: 2000-436
Jumper; from 1 to 6; insulated; light gray

www.wago.com/2000-436

Item no.: 2000-433
Jumper; from 1 to 3; insulated; light gray

www.wago.com/2000-433

Item no.: 2000-434
Jumper; from 1 to 4; insulated; light gray

www.wago.com/2000-434

Item no.: 2000-402
Jumper; 2-way; insulated; light gray

www.wago.com/2000-402

Item no.: 2000-402/000-006
Jumper; 2-way; insulated; blue

www.wago.com/2000-402/000-006

Item no.: 2000-403
Jumper; 3-way; insulated; light gray

www.wago.com/2000-403

Item no.: 2000-402/000-005
Jumper; 2-way; insulated; red

www.wago.com/2000-402/000-005

Item no.: 2000-402/000-018
Jumper; 2-way; insulated; yellow-green

www.wago.com/2000-402/000-018

Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



Item no.: 2000-404 Jumper; 4-way; insulated; light gray	www.wago.com/2000-404
Item no.: 2000-403/000-005 Jumper; 3-way; insulated; red	www.wago.com/2000-403/000-005
Item no.: 2000-404/000-006 Jumper; 4-way; insulated; blue	www.wago.com/2000-404/000-006
Item no.: 2000-403/000-006 Jumper; 3-way; insulated; blue	www.wago.com/2000-403/000-006
Item no.: 2000-404/000-005 Jumper; 4-way; insulated; red	www.wago.com/2000-404/000-005
Item no.: 2000-405 Jumper; 5-way; insulated; light gray	www.wago.com/2000-405
Item no.: 2000-405/011-000 Star point jumper; 3-way; insulated; light gray	www.wago.com/2000-405/011-000
Item no.: 2000-405/000-006 Jumper; 5-way; insulated; blue	www.wago.com/2000-405/000-006
Item no.: 2000-406/000-006 Jumper; 6-way; insulated; blue	www.wago.com/2000-406/000-006
Item no.: 2000-405/000-005 Jumper; 5-way; insulated; red	www.wago.com/2000-405/000-005
Item no.: 2000-406 Jumper; 6-way; insulated; light gray	www.wago.com/2000-406
Item no.: 2000-406/000-005 Jumper; 6-way; insulated; red	www.wago.com/2000-406/000-005
Item no.: 2000-406/020-000 Delta jumper; insulated; light gray	www.wago.com/2000-406/020-000
Item no.: 2000-437 Jumper; from 1 to 7; insulated; light gray	www.wago.com/2000-437
Item no.: 2000-438 Jumper; from 1 to 8; insulated; light gray	www.wago.com/2000-438

Subject to changes. Please also observe the further product documentation!



Item no.: 2000-492 Vertical jumper; insulated; light gray	www.wago.com/2000-492
Item no.: 2000-439 Jumper; from 1 to 9; insulated; light gray	www.wago.com/2000-439
Item no.: 2000-440 Jumper; from 1 to 10; insulated; light gray	www.wago.com/2000-440
Item no.: 210-103 Wire commoning chain; insulated; black	www.wago.com/210-103
Testing and measuring	
Testing accessories	
Item no.: 859-500 WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 10 mm uninsulated; Test lead for soldering up to 0,5mm ²	www.wago.com/859-500
Protective warning marker	
Cover	
Item no.: 2000-115 Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow	www.wago.com/2000-115
Ferrule	
Ferrule	
Item no.: 216-241 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white	www.wago.com/216-241
Item no.: 216-242 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-242
Item no.: 216-243 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	www.wago.com/216-243
Carrier rail	
Mounting accessories	
Item no.: 210-197 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored	www.wago.com/210-197
Item no.: 210-198 Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored	www.wago.com/210-198
Item no.: 210-113 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored	www.wago.com/210-113
Item no.: 210-118 Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored	www.wago.com/210-118
Item no.: 210-112 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored	www.wago.com/210-112

Subject to changes. Please also observe the further product documentation!

**Item no.: 210-114**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

www.wago.com/210-114**Item no.: 210-115**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored

Item no.: 210-196

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

www.wago.com/210-196**Tool**

Operating tool

Item no.: 210-648

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short

www.wago.com/210-648**Item no.: 210-647**

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

www.wago.com/210-647**Item no.: 210-719**

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

www.wago.com/210-719**Downloads****Documentation****Bid Text**

2020-2231 X81 - Datei	2019 年2月19日	xml 4.3 kB	Download
--------------------------	-------------	---------------	----------

2020-2231 docx - Datei	2018 年8月7日	docx 15.5 kB	Download
---------------------------	------------	-----------------	----------

Additional Information

		pdf 2.2 MB	Download
--	--	---------------	----------

CAD/CAE-Data**CAD data**

2D/3D Models 2020-2231		URL	Download
------------------------	--	-----	----------

CAE data

EPLAN Data Portal 2020-2231		URL	Download
-----------------------------	--	-----	----------

WSCAD Universe 2020-2231		URL	Download
--------------------------	--	-----	----------

Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG

Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.

ZUKEN Portal 2020-2231

[URL](#)

[Download](#)

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2020-2231

[URL](#)

[Download](#)

1-conductor/1-pin double deck receptacle terminal block; Through/through terminal block; L/L; with marker carrier; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; gray

Installation Notes

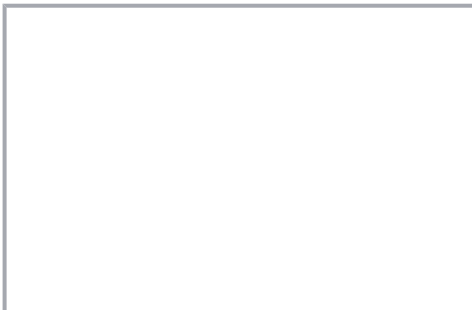
Coding



Insert coding pin into the corresponding slot and twist it off.



Coding a female plug: remove coding finger using a suitable tool.



Insert coded female plug into X-COM®S-SYSTEM terminal block assembly.

Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG

Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.



1-conductor female plug

Double-deck carrier terminal blocks can be commoned via 2000 Series Push-In Type Jumper Bars and tested via 859-500 Test Pin.

Marking



Clear marking via large marking area



Group marking with height-adjustable group marker carrier (2009-163)



Marking via marker carrier (2009-198)

Product family

X-COM S-Mini

[Show all products from the family](#)

Subject to changes. Please also observe the further product documentation!