

# ICC/MSTBC 2,5/3P13L38SMGW - Assembled PCB connectors



1006733

<https://www.phoenixcontact.com/us/products/1006733>

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Assembled PCB connector / Connecting cable with 2 printed circuit board connectors, rated current: 9 A, Head 1: 3-position , pitch: 5.08 mm , Crimp connection , Pin, Cable 1: cable length: 0.38 m, Color: black, blue, Cable type:mPPE litz wire, Head 2: 3-position, pitch: 5.08 mm , product feature: PCB connectors for Smart Meter Gateways (SMGW), mPPE litz wire, product range: CC-Cabling SMGW

## Product description

PCB connectors for Smart Meter Gateways (SMGW)

## Your advantages

- Male connector with straight or bent conductor exit for optimal installation in control cabinets
- Handling-compatible cable lengths, harmonized with meter design 3.HZ
- Connection technology compatible with all FNN-compliant base meters, gateways, and control boxes

## Commercial data

Item number	1006733
Packing unit	50 pc
Minimum order quantity	50 pc
Product key	AAHRDB
GTIN	4055626478227
Weight per piece (including packing)	14.9 g
Weight per piece (excluding packing)	14.9 g
Country of origin	DE

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## Technical data

### Product properties

Product type	Assembled PCB connector
Product family	CC-Cabling SMGW
Product line	COMBICON Connectors Special
Number of positions	2
Pitch	0.00 mm
Number of connections	2
Number of potentials	2

### Electrical properties

#### Properties

Nominal current $I_N$	9 A
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### Notes

Notes on operation	PCB connectors without switching power in accordance with IEC 61984 for Smart Meter Gateways (SMGW). When used for their intended purpose, they must not be plugged in or disconnected live or under load.
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### Mechanical tests

#### Tensile strength of crimp connections

Result	Test passed
Conductor cross-section/conductor type/tractive force setpoint/actual value	AWG 18 / $\geq 85$ N

#### Insertion and withdrawal forces

Result	Test passed
Insertion strength per pos. approx.	10 N
Withdraw strength per pos. approx.	10 N

### Environmental and real-life conditions

#### Ambient conditions

Ambient temperature (storage/transport)	-30 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 80 °C (fixed routing)
	-5 °C ... 70 °C (flexible)
Ambient temperature (storage/transport)	-30 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %

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Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (installation)	-40 °C ... 100 °C (dependent on the derating curve)
Ambient temperature (mobile installation)	-5 °C ... 100 °C (dependent on the derating curve)

## Connector

### Connection 1

Range of articles	ICC 2,5/...-STZ
Pitch	5.08 mm
Connection method	Crimp connection
Number of positions	3
Nominal cross section	2.5 mm <sup>2</sup>
Contact connection type	Pin
Mounting type	without
Color	green
Insulating material	PA
CTI according to IEC 60112	600

### Connection 2

Range of articles	MSTBC 2,5/...-ST
Pitch	5.08 mm
Number of positions	3
Color	green
CTI according to IEC 60112	600
Insulating material	PA

## Cable/line

Cable length	0.38 m
UL AWM Style	11028
Shielded	no
Conductor structure signal line	19x 0.25 mm
AWG signal line	18
Conductor cross-section	2x 0.82 mm <sup>2</sup>
Wire diameter incl. insulation	1.85 mm
Conductor material	Tin-plated Cu litz wires
Material wire insulation	mPPE
Single wire, color	black, blue
Thickness, insulation	0.29 mm
Max. conductor resistance	≤ 19 Ω/m
Insulation resistance	≥ 20 MΩ*km
Nominal voltage, cable	600 V
Test voltage	6000 V
Ambient temperature (operation)	-40 °C ... 105 °C (cable, fixed installation)

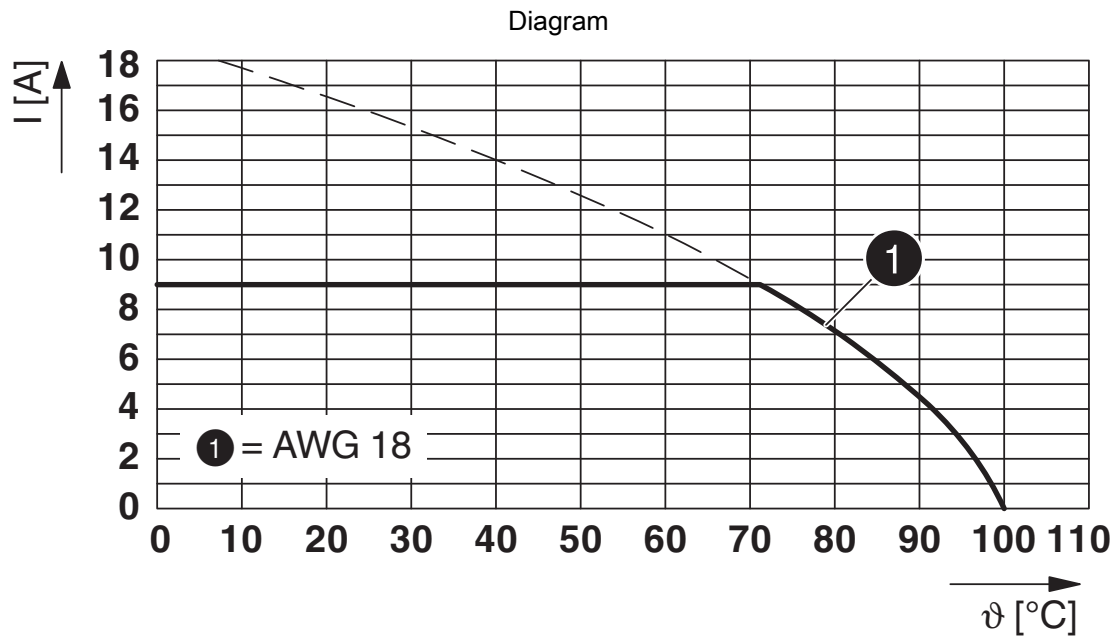
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## Drawings



Type: ICC/MSTBC 2,5/...SMGW

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## Classifications

### ECLASS

ECLASS-15.0	27469090
ECLASS-13.0	27469090

### ETIM

ETIM 10.0	EC002943
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated(CAS: n/a)
	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated(CAS: n/a)
SCIP	2afab636-1005-4012-b1c4-950006c89494

### EF3.1 Climate Change

CO2e kg	0.45 kg CO2e
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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)