

# 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 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 |

### 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. |
|--------------------|--|

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

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## 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) |

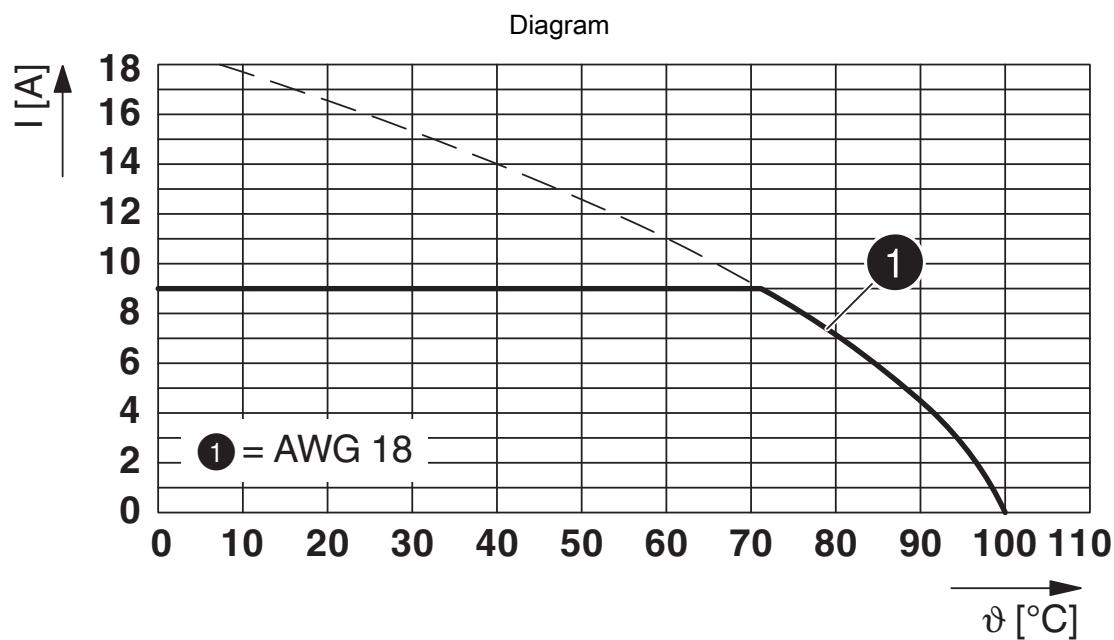
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## Drawings



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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-15.0 | 27469090 |
| ECLASS-13.0 | 27469090 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002943 |
|----------|----------|

### UNSPSC

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

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## 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.) | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated(CAS: n/a) |
| SCIP                                | 2afab636-1005-4012-b1c4-950006c89494                      |

### EF3.0 Climate Change

|         |              |
|---------|--------------|
| CO2e kg | 0.45 kg CO2e |
|---------|--------------|

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