

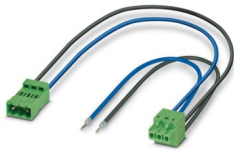
ICC/TVFKC/AI8/3P13L33-20SMGW - Assembled PCB connectors



1714316

<https://www.phoenixcontact.com/us/products/1714316>

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Assembled PCB connector / Y-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: 0.33 m, Color: black, blue, Cable type:mPPE litz wire, Head 2: 3-position, pitch: 5 mm, Push-in spring connection, Socket, Cable 2: cable length: 0.2 m, Color: black, blue, Cable type:mPPE litz wire, 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
- Simple connection of auxiliary equipment using Y-cables with open conductor ends

Commercial data

Item number	1714316
Packing unit	50 pc
Minimum order quantity	50 pc
Product key	AAHRDB
GTIN	4055626356839
Weight per piece (including packing)	19.63 g
Weight per piece (excluding packing)	19.63 g
Country of origin	SK

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Technical data

Product properties

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

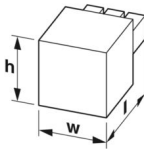
Electrical properties

Nominal current I_N	9 A
Degree of pollution	3

Notes

Notes on operation	PCB connectors without switching capacity 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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Dimensions

Dimensional drawing	
Pitch	0.00 mm

Mechanical tests

Tensile strength of crimp connections

Result	Test passed
Conductor cross section/conductor type/tractive force setpoint/actual value	AWG 18 / ≥ 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

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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

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 ²
Contact connection type	Pin
Mounting flange	without
Color	green
Insulating material	PA
CTI according to IEC 60112	600

Connection 2

Range of articles	TVFKC 1,5/...ST
Connection method	Push-in spring connection
Pitch	5 mm
Number of positions	3
Nominal cross section	1.5 mm ²
Contact connection type	Socket
Mounting flange	without
Color	green

Cable/line

Cable length	0.33 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 ²
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

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Nominal voltage, cable	600 V
Test voltage	6000 V
Ambient temperature (operation)	-40 °C ... 105 °C (cable, fixed installation)
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 ²
Wire diameter incl. insulation	1.85 mm
Conductor material	Tin-plated Cu litz wires
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Classifications

ECLASS

ECLASS-11.0	27469090
ECLASS-12.0	27469090
ECLASS-13.0	27469090

ETIM

ETIM 9.0	EC002943
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

REACH SVHC	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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