

1714318

https://www.phoenixcontact.com/gb/products/1714318

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.



Assembled PCB connector / Y-cable with 3 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, Header 3: 3-position, pitch: 5.08 mm

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	1714318
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AAHRDB
Product key	AAHRDB
GTIN	4055626356846
Weight per piece (including packing)	22.4 g
Weight per piece (excluding packing)	22.4 g
Customs tariff number	85444290
Country of origin	SK



1714318

https://www.phoenixcontact.com/gb/products/1714318

Technical data

Product properties

Product type	Assembled PCB connector
Product family	CC-Cabeling SMGW
Product line	COMBICON Connectors Special
Number of positions	1
Pitch	0.00 mm
Number of connections	2
Number of potentials	2

Electrical properties

Properties

No. 1. Control of the	0.4
Nominal current I _N	9 A

Notes

Notes on operation	In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
--------------------	--

Dimensions

Dimensional drawing	h
Pitch	0.00 mm

Mechanical tests

Tensile strength of crimp connections

Result	Test passed
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 %



1714318

https://www.phoenixcontact.com/gb/products/1714318

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 mm²
Contact connection type	Socket
Mounting flange	without
Color	green
CTI according to IEC 60112	600
Insulating material	PA

Connection 3

Range of articles	MSTBC 2,5/ST
Pitch	5.08 mm
Number of positions	3
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 mm²
Wire diameter incl. insulation	1.85 mm



1714318

https://www.phoenixcontact.com/gb/products/1714318

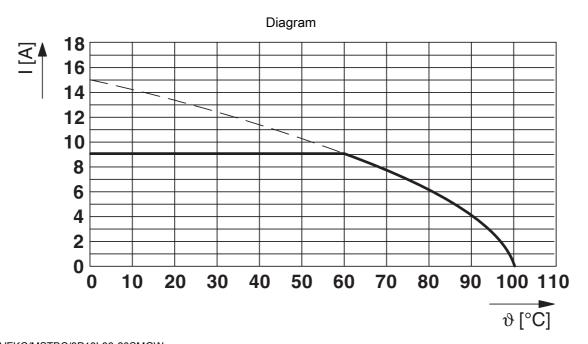
Conductor material	Tin-plated Cu litz wires
Material wire insulation	mPPE
Single wire, color	black, blue
Thickness, insulation	0.29 mm
Max. conductor resistance	≤ 19 Ω/m
Insulation resistance	≥ 20 MΩ*km
Nominal voltage, cable	600 V
Test voltage	6000 V
Ambient temperature (operation)	-40 °C 105 °C (cable, fixed installation)
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
Nominal voltage, cable	600 V
Test voltage	6000 V
Ambient temperature (operation)	-40 °C 105 °C (cable, fixed installation)



1714318

https://www.phoenixcontact.com/gb/products/1714318

Drawings



Type: ICC/TVFKC/MSTBC/3P13L33-20SMGW



1714318

https://www.phoenixcontact.com/gb/products/1714318

Classifications

	ECLASS-13.0	27469090			
E	ETIM				
	ETIM 9.0	EC002943			
UI	UNSPSC				
	UNSPSC 21.0	39121400			



1714318

https://www.phoenixcontact.com/gb/products/1714318

Environmental product compliance

EU	Rol	IS

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	f63ef922-08f4-4d5c-9429-94664649aaf2
EF3.0 Climate Change	

Phoenix Contact 2025 © - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT Ltd Halesfield 13, Telford Shropshire, TF7 4PG 01952 681700 info@phoenixcontact.co.uk