

# VS-08-RJ45-10G/Q - RJ45 connector



1419001

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RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: straight, color: black, Ethernet

## Your advantages

- Easy and time-saving assembly with IDC fast connection technology
- Can be used internationally due to EAC, UL 1863, and CAN/CSA C22.2
- Ideal companion for servicing or repairs in the field: no special tools required for mounting

## Commercial data

Item number	1419001
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB10
Product key	ABNAAE
Catalog page	Page 372 (C-2-2019)
GTIN	4046356521567
Weight per piece (including packing)	12.3 g
Weight per piece (excluding packing)	10.034 g
Customs tariff number	85366990
Country of origin	PL

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## Technical data

### Product properties

Product type	Data connector (cable side)
Type	RJ45
Sensor type	Ethernet
Number of positions	8
No. of cable outlets	1
Type	RJ45
Shielded	yes
Cable outlet	straight
Positions/contacts	8P8C

### Insulation characteristics

Overvoltage category	I
Degree of pollution	2

### Electrical properties

Rated voltage (III/3)	72 V (DC)
Rated current	1.75 A
Contact resistance	< 20 mΩ (Contact) < 100 mΩ (shield)
Frequency range	to 500 MHz
Insulation resistance	> 500 MΩ
Nominal voltage $U_N$	48 V
Nominal current $I_N$	1.75 A
Contact resistance per contact pair	< 20 Ω
Contact resistance	> 10 mΩ (Wire – IDC) 0.005 Ω (Litz wires – IDC)
Transmission medium	Copper
Transmission characteristics (category)	CAT6 <sub>A</sub>
Transmission speed	10 Gbps
Wave impedance	100 Ω

### Connection data

#### Connection technology

Connection method	Insulation displacement connection
Connection cross section AWG	26 ... 24 (solid) 26 ... 24 (flexible)
Conductor cross section	0.14 mm <sup>2</sup> ... 0.22 mm <sup>2</sup> (solid) 0.14 mm <sup>2</sup> ... 0.22 mm <sup>2</sup> (flexible)
Connection in acc. with standard	IEC 60603-7-51
Cable outlet, angle	180

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## Dimensions

Width	13.8 mm
Height	17.3 mm
Length	55.5 mm

## Material specifications

Color	black
Flammability rating according to UL 94	V2
Housing material	Plastic
Contact material	CuSn
Contact surface material	Au/Ni
Contact carrier material	PC
Locking latch material	PC
Material for screw connection	PA

## Cable/line

External cable diameter	4.5 mm ... 8 mm
External cable diameter	4.5 mm ... 8 mm
Cable cross section	0.14 mm <sup>2</sup>
Test voltage Core/Core	1000 V
Test voltage Core/Shield	1500.00 V
Wave impedance	100 Ω

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 750
Insertion force per signal contact	< 20.00 N
Extraction force per signal contact	< 20 N

## Environmental and real-life conditions

### Test specification

Type of test	Vibration test
Specification	IEC 60068-2-6
Frequency	10-500 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm
Acceleration	50.00 m/s <sup>2</sup>
Test duration	20.00 s

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C

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## Mounting

Mounting type	For field assembly
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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1419001>

	<b>UL Listed</b> Approval ID: E335024-20150529			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	57 V	1.75 A	-	-

	<b>cUL Listed</b> Approval ID: E335024-20150529			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	57 V	1.75 A	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27440114
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### ETIM

ETIM 9.0	EC002636
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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
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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