

# VS-08-ST-RJ45 - RJ45 male insert



1688573

<https://www.phoenixcontact.com/us/products/1688573>

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RJ45 pin insert, CAT5e, 8-pos., shielded, IDC connection method, for litz wires AWG 26 and solid wires AWG 26 ... 24

## Your advantages

- Easy installation with a crimping tool

## Commercial data

Item number	1688573
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	AB10
Product key	ABNAAG
GTIN	4017918622404
Weight per piece (including packing)	2.87 g
Weight per piece (excluding packing)	2.87 g
Customs tariff number	85366990
Country of origin	US

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## Technical data

### Product properties

Product type	Data connector (cable side)
Type	RJ45
Number of positions	8
Connection profile	RJ45
No. of cable outlets	1
Number of slots	1
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	1.5 A
Contact resistance	< 20 mΩ (Contact) < 100 mΩ (shield)
Frequency range	100 MHz
Insulation resistance	> 500 MΩ
Nominal current $I_N$	1.5 A
Contact resistance per contact pair	< 20 Ω
Contact resistance	> 10 mΩ (Wire – IDC)
Transmission medium	Copper
Transmission characteristics (category)	CAT5 (IEC 11801:2002)
Transmission speed	1 Gbps

### Connection data

#### Connection technology

Connection method	Crimp connection
Connection cross section AWG	26 ... 24 (solid) 26 ... 24 (flexible)
Conductor cross-section	0.13 mm <sup>2</sup> ... 0.2 mm <sup>2</sup> (solid) 0.14 mm <sup>2</sup> ... 0.22 mm <sup>2</sup> (flexible)

### Interfaces

Signal type/category	Ethernet
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### Dimensions

Width	11.6 mm
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Height	12.1 mm
Length	24.1 mm

## Material specifications

Flammability rating according to UL 94	V0
Contact material	Phosphor bronze
Contact surface material	Au/Ni
Contact carrier material	PC
Locking latch material	PC

## Cable/line

Signal type/category	Ethernet
External cable diameter	4.6 mm ... 5.8 mm
Test voltage Core/Core	1000 V
Test voltage Core/Shield	1500.00 V

## 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

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C

## Mounting

Mounting type	Crimp connection
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## Classifications

### ECLASS

ECLASS-13.0	27440114
ECLASS-15.0	27440114

### ETIM

ETIM 10.0	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
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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.)	No substance above 0.1 wt%
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### EF3.1 Climate Change

CO2e kg	0.28 kg CO2e
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