VS-08-BU-RJ45-6/LH-1 - RJ45 PCB connectors

1653087

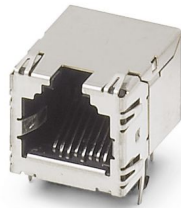https://www.phoenixcontact.com/us/products/1653087

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RJ45 PCB connectors, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Metal, connection method: THT wave, cable outlet: straight

Your advantages

- Through-hole technology (THT) provides high mechanical stability when connecting the female connector to the PCB
- The extended temperature range from -25°C to +80°C enables use in demanding applications
- Safe transmission due to shielding

Commercial data

Item number	1653087
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	AB12
Product key	ABNADC
Catalog page	Page 85 (C-2-2013)
GTIN	4017918970031
Weight per piece (including packing)	7.02 g
Weight per piece (excluding packing)	7 g
Customs tariff number	85366930
Country of origin	JP

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Technical data

Product properties

Type	RJ45
Product type	Data connector (device side)
Number of positions	8
Type of packaging	PE bag
Housing shield springs	Yes
Connection profile	RJ45
Number of slots	1
Type	Socket
Shielded	yes
Cable outlet	straight

Insulation characteristics

Overvoltage category	I
Degree of pollution	2

Electrical properties

Rated voltage (III/2)	72 V DC
Rated voltage (III/3)	72 V (DC)
Rated surge voltage	1.5 kV DC
Rated surge voltage (III/3)	1.5 kV
Rated surge voltage	1 kV DC
Rated current	1 A
Insulation resistance	> 500 MΩ
Test voltage	1 kV DC
Test voltage Core/Core	1 kV DC
Test voltage Core/Shield	1.50 kV DC
Contact resistance per contact pair	max. 230 mΩ
Transmission medium	Copper
Transmission speed	1 Gbps

Connection data

Connection technology

Connection method	THT wave

Dimensions

Width	17.6 mm
Height	18.1 mm
Length	21 mm
Installed height	13.80 mm
Orientation to	90.00 °

Data pin length	3.60 mm

Material specifications

Material	Au (1,27 µm/50 µ")
	Ni
	Au
	Ni
	Copper alloy
Flammability rating according to UL 94	V0
Contact material	Phosphor bronze
Contact surface material	Gold
Contact carrier material	PBT
Housing material	Metal

Cable/line

Test voltage Core/Core	1 kV DC
Test voltage Core/Shield	1.50 kV DC
Halogen-free	no

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)	-25 °C ... 80 °C
Ambient temperature (storage/transport)	-25 °C ... 80 °C

Mounting

Mounting type	PCB mounting

Processing notes

Classification temperature T_c	260 °C

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Drawings

Schematic diagram
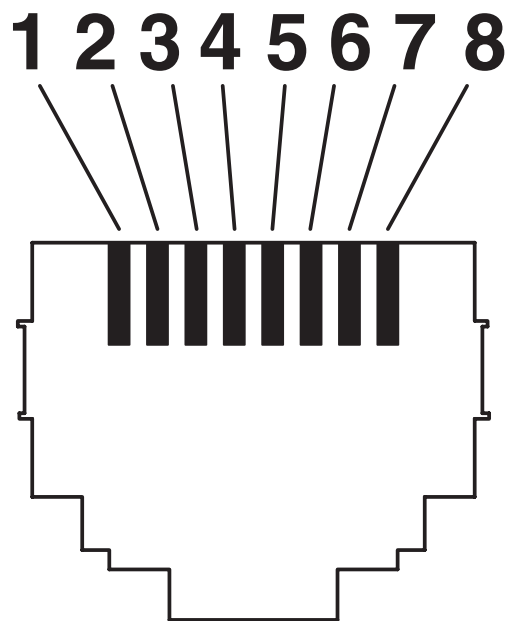
Dimensional drawing
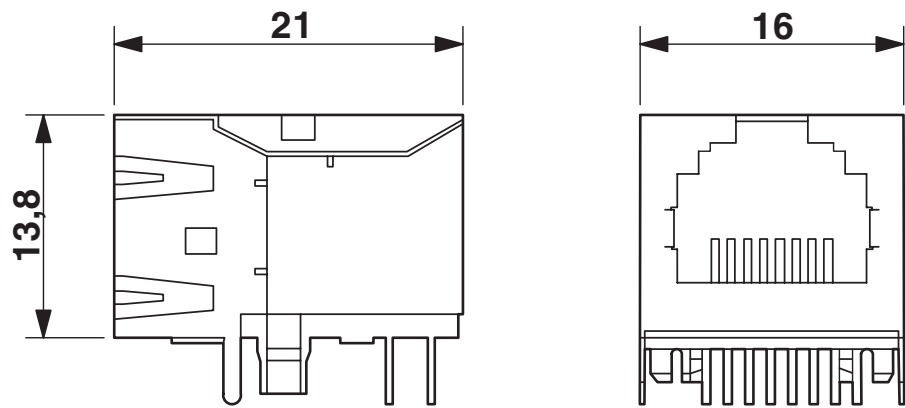
RJ45 socket insert

Drilling plan/solder pad geometry
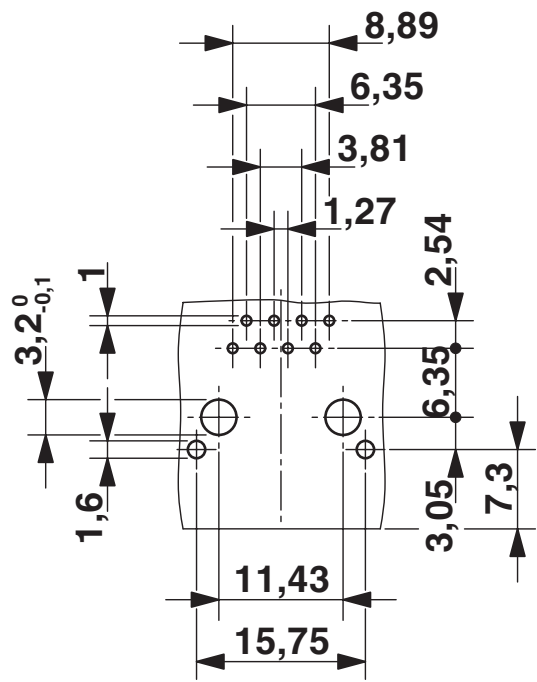
Drilling diagram

Classifications

ECLASS

ECLASS-11.0	27440223
ECLASS-12.0	27440223
ECLASS-13.0	27440223

ETIM

ETIM 9.0	EC003557

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Accessories

VS-08-A-RJ45/LP-1-IP 20 - Panel mounting frames

1688641

https://www.phoenixcontact.com/us/products/1688641

RJ45 panel mounting frame, 1x, IP20, for PCB assembly, for socket inserts, without mounting screws

VS-08-A-RJ45/LP-1-IP67 - Panel mounting frames

1689446

https://www.phoenixcontact.com/us/products/1689446

RJ45 panel mounting frame, IP67, for PCB connection, for square panel cutout, with grommet, without mounting screws, color: gray

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VS-08-A-RJ45/LP-1-IP67-BK - Panel mounting frames

1658655

https://www.phoenixcontact.com/us/products/1658655

RJ45 panel mounting frame, IP67, for PCB connection, for square panel cutout, with grommet, without mounting screws, color: black

VS-PPC-F1-RJ45-MNNA-1R-PHA - Panel mounting frames

1608029

https://www.phoenixcontact.com/us/products/1608029

RJ45 panel mounting frame, IP67, for push-pull interlocking, metal, for PCB connection, for square panel cutout, with grommet, without mounting screws

VS-08-BU-RJ45-6/LH-1 - RJ45 PCB connectors

1653087

https://www.phoenixcontact.com/us/products/1653087

VS-PPC-F1-RJ45-P0BK-1R-PHA - Panel mounting frames

1657847

https://www.phoenixcontact.com/us/products/1657847

RJ45 panel mounting frame, IP67, for push-pull interlocking, plastic, for PCB connection, for square panel cutout, with grommet, without mounting screws

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