VS-08-RJ45-5-Q/IP20 - RJ45 connector

1656725

https://www.phoenixcontact.com/ae/products/1656725

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RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 23, cable outlet: straight, color: traffic gray A RAL 7042, 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	1656725
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB
Product key	ABNAAD
GTIN	4046356030045
Weight per piece (including packing)	10.4 g
Weight per piece (excluding packing)	9.981 g
Customs tariff number	85366990
Country of origin	CH

Technical data

Product properties

Product type	Data connector (cable side)
Type	RJ45
Number of positions	8
Connection profile	RJ45
No. of cable outlets	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	1.75 A
Contact resistance	< 20 mΩ (Contact)
	< 100 mΩ (shield)
Frequency range	to 100 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 speed	1 Gbps
Transmission characteristics (category)	CAT5
Transmission speed	1 Gbps
Power transmission	PoE++ in accordance with: IEEE 802.3bt

Connection data

Connection technology

Connection method	Insulation displacement connection
Connection cross section AWG	26 ... 23 (solid)
	26 ... 23 (flexible)
Conductor cross-section	0.14 mm² ... 0.25 mm² (solid)
	0.14 mm² ... 0.25 mm² (flexible)
Connection in acc. with standard	in accordance with IEC 60603-7-1
Cable outlet, angle	180

Interfaces

Signal type/category	Ethernet CAT5, 1 Gbps

Dimensions

Width	14 mm
Height	14.6 mm
Length	56 mm

Material specifications

Color	traffic gray A RAL 7042
Material	Plastic
Flammability rating according to UL 94	V0
Housing material	Plastic
Contact material	CuSn
Contact surface material	Au/Ni
Contact carrier material	PC
Locking latch material	PC
Material for screw connection	PA
Contact carrier color	transparent

Cable/line

Signal type/category	Ethernet CAT5, 1 Gbps
External cable diameter	4.5 mm ... 8 mm
External cable diameter	4.5 mm ... 8 mm
Wire diameter including insulation	1.6 mm
Cable cross section	0.14 mm²
Test voltage Core/Core	1000 V
Test voltage Core/Shield	1500.00 V
Halogen-free	no

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 1000
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)	-20 °C ... 70 °C

Test specification

Type of test	Vibration test

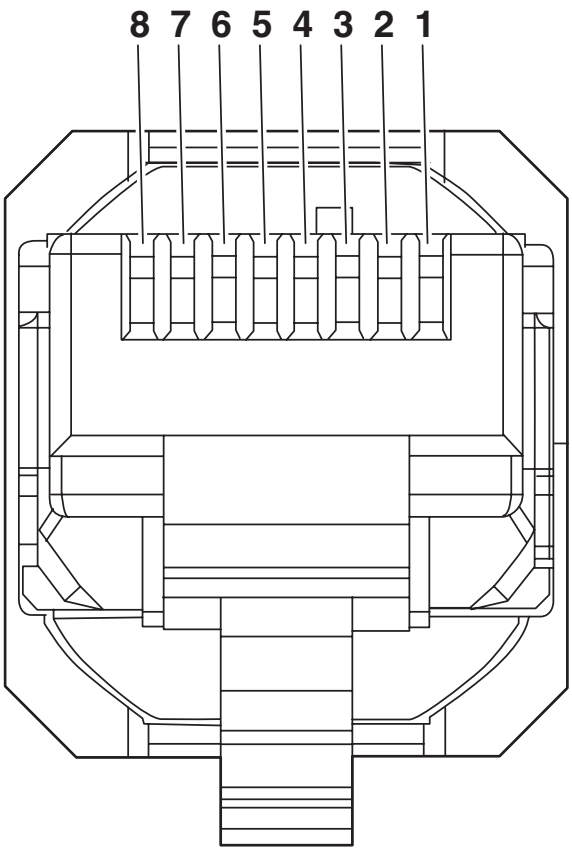
Specification	IEC 60068-2-6
Frequency	10-500 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm
Acceleration	50 m/s²
Test duration	20 s

Mounting

Mounting type	For field assembly

Drawings

Schematic diagram



Connector pin assignment

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/ae/products/1656725

UL Listed
Approval ID: FILE E 335024

cUL Listed
Approval ID: FILE E 335024

DNV
Approval ID: TAE000020F

Classifications

ECLASS

ECLASS-13.0	27440114
ECLASS-15.0	27440114

ETIM

ETIM 10.0	EC002636

UNSPSC

UNSPSC 21.0	39121400

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.)	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)|3147-75-9(CAS: n/a)
SCIP	4f307fb1-889f-49bd-a3ac-fb394528918e

EF3.1 Climate Change

CO2e kg	0.802 kg CO2e

Accessories

VS-CABLE-STRIP-VARIO - Stripping tool

1657407

https://www.phoenixcontact.com/ae/products/1657407

Stripping tool, for the multi-level stripping of shielded cables



NBC-PP-G1PGY - DIN rail adapter

1041740

https://www.phoenixcontact.com/ae/products/1041740

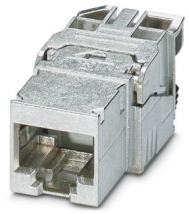


DIN rail adapter, design: Headers with shielding, degree of protection: IP20, material: PC-GF10, connection method: Quick connection, without assembled modules

CUC-I-J1ZNI-S/R4IDC8 - RJ45 jack insert

1417274

https://www.phoenixcontact.com/ae/products/1417274



RJ45 jack insert, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, $CAT6_A$, material: Metal, connection method: IDC connection, connection cross section: AWG 26- 22, cable outlet: straight, Adapter-free design, Ethernet

CUC-F-J1ZNI-S/R4IDC8 - RJ45 jack insert

1418984

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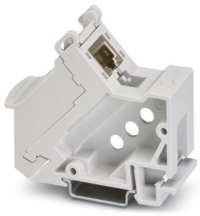


RJ45 jack insert, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, $CAT6_A$, material: Metal, connection method: IDC connection, connection cross section: AWG 26- 22, cable outlet: straight, Freenet design for use with IP67 panel mounting frame and terminal outlets, Ethernet

CUC-PP-D1PGY/R4GC8 - DIN rail adapter

1418094

https://www.phoenixcontact.com/ae/products/1418094



DIN rail adapter, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT6, material: PC-GF, connection method: Coupling, color: gray

CUC-K-J1ZNI-S/R4IDC8 - RJ45 jack insert

1419021

https://www.phoenixcontact.com/ae/products/1419021



RJ45 jack insert, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, $CAT6_A$, material: Metal, connection method: IDC connection, connection cross section: AWG 26- 22, cable outlet: straight, Keystone design for use with IP20 panel mounting frame or integrated directly into the housing panel, Ethernet

VS-OE-OE-94B-100,0 - Data cable

1416567

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By the meter, Data cable, Ethernet CAT5 (1 Gbps), shielded, PUR halogen-free, water blue RAL 5021, 8-wire (4x2xAWG26/7, SF/UTP), color single wire: white/blue-blue, white/orange-orange, white/green-green, white/brown-brown, cable length: 100 m

VS-OE-OE-94B/... - Data cable

1417333

https://www.phoenixcontact.com/ae/products/1417333



By the meter, Data cable, Ethernet CAT5 (1 Gbps), shielded, PUR halogen-free, water blue RAL 5021, 8-wire (4x2xAWG26/7, SF/UTP), color single wire: white/blue-blue, white/orange-orange, white/green-green, white/brown-brown, cable length: Free entry (0.5 ... 400 m)

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