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

1656725

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

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.



RJ45 connector, RJ45, Ethernet, CAT5 (1 Gbps), 8-position, connection method: Insulation displacement connection, material: Plastic, connection cross section: AWG 26- 23, degree of protection: IP20

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	AB10
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
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

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

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

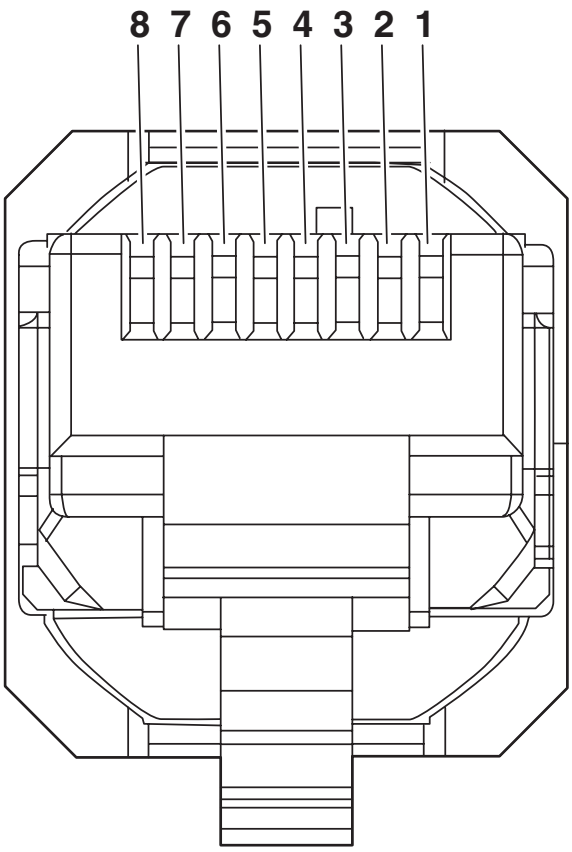
Sweep speed	1 octave/min
Amplitude	0.35 mm
Acceleration	50 m/s²
Test duration	20 s

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/us/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	EC001121

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)(CAS: 3147-75-9)
SCIP	4f307fb1-889f-49bd-a3ac-fb394528918e

EF3.1 Climate Change

CO2e kg	0.802 kg CO2e

Phoenix Contact 2026 © - all rights reserved
https://www.phoenixcontact.com

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com