

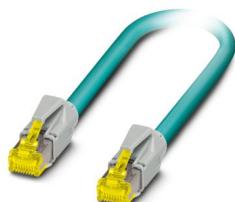
# VS-IP20/10G-IP20/10G-94F/1 - Patch cable

1418866

<https://www.phoenixcontact.com/us/products/1418866>



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.



Patch cable, CAT6<sub>A</sub>, 4-pair, shielded, connection not crossed (Line), assembled at both ends with RJ45/IP20 connectors; outer sheath material: PUR; length: 1.0 m

## Commercial data

Item number	1418866
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB11
Product key	ABNABF
GTIN	4046356537971
Weight per piece (including packing)	72 g
Weight per piece (excluding packing)	58.016 g
Customs tariff number	85444210
Country of origin	PL

# VS-IP20/10G-IP20/10G-94F/1 - Patch cable

1418866

<https://www.phoenixcontact.com/us/products/1418866>



## Technical data

### Product properties

Product type	Data cable preassembled
Product family	RJ45 INDUSTRIAL IE8 CAT6A
Sensor type	Ethernet
Number of positions	8
Shielded	yes

### Electrical properties

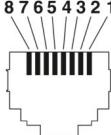
Nominal voltage $U_N$	48 V
Nominal current $I_N$	0.5 A
Transmission speed	10 Gbps
Transmission characteristics (category)	CAT6 <sub>A</sub>
Transmission speed	10 Gbps
Wave impedance	100 $\Omega$

### Material specifications

Outer sheath, material	PUR
Conductor material	Bare Cu litz wires

### Connector

#### Connection 1

Dimensional drawing	
	Connector pin assignment plug RJ45
Type	RJ45 Plug, straight, 8-position
Number of positions	8
Signal type/category	Ethernet CAT6 <sub>A</sub> , 10 Gbps
	CC-Link IE CAT6 <sub>A</sub> , 10 Gbps
Insertion/withdrawal cycles	$\geq 750$
Insulation resistance	$\geq 100 \Omega$
Overshoot category	I
Degree of pollution	2
Material Contact	CuSn
Material Contact surface	Ni/Au
Material Contact carrier	PC

# VS-IP20/10G-IP20/10G-94F/1 - Patch cable



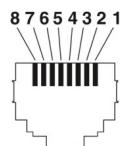
1418866

<https://www.phoenixcontact.com/us/products/1418866>

Material Housing	PA
Color (Housing)	gray
Flammability rating according to UL 94	V2
Degree of protection	IP20 (RJ45 connector)
Ambient temperature (operation)	-25 °C ... 60 °C

## Connection 2

Dimensional drawing



Connector pin assignment plug RJ45

Type	RJ45 Plug, straight, 8-position
Number of positions	8
Signal type/category	Ethernet CAT6 <sub>A</sub> , 10 Gbps CC-Link IE CAT6 <sub>A</sub> , 10 Gbps
Insertion/withdrawal cycles	≥ 750
Insulation resistance	≥ 100 Ω
Overshoot category	I
Degree of pollution	2
Material Contact	CuSn
Material Contact surface	Ni/Au
Material Contact carrier	PC
Material Housing	PA
Color (Housing)	gray
Flammability rating according to UL 94	V2
Degree of protection	IP20 (RJ45 connector)
Ambient temperature (operation)	-25 °C ... 60 °C

## Cable/line

Cable length 1.00 m

Ethernet 10 Gbit [94F]

Dimensional drawing



# VS-IP20/10G-IP20/10G-94F/1 - Patch cable



1418866

<https://www.phoenixcontact.com/us/products/1418866>

UL AWM Style	21238 (80 °C / 600 V)
Number of positions	8
Shielded	yes
Cable type	Ethernet 10 Gbit [94F]
Conductor structure	4x2xAWG26/7; S/FTP
AWG signal line	26
Conductor cross section	4x 2x 0.14 mm <sup>2</sup>
Wire diameter incl. insulation	1 mm ±0.05 mm
External cable diameter	6.40 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Conductor material	Bare Cu litz wires
Material wire insulation	Foamed PE
Single wire, color	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Twisted pairs	2 cores to the pair
Overall twist	4 pairs for core
Optical shield covering	70 %
Insulation resistance	≥ 500 MΩ*km
Loop resistance	≤ 290.00 Ω/km
Wave impedance	100 Ω ±5 Ω (at 100 MHz)
Nominal voltage, cable	≤ 100 V
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000.00 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Smallest bending radius, fixed installation	26 mm
Smallest bending radius, movable installation	51 mm
Halogen-free	according to IEC 60754-1
Flame resistance	according to IEC 60332-1-2
	in accordance with UN ECE-R 118.03
	according to CSA C 22.2 No. 210-FT1
Resistance to oil	in accordance with DIN EN 60811-404
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -20 °C ... 80 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 80 °C (cable, fixed installation)
---------------------------------	--

# VS-IP20/10G-IP20/10G-94F/1 - Patch cable

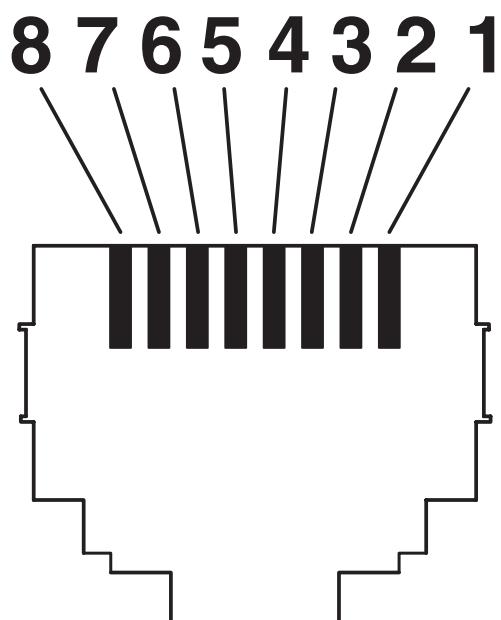
1418866

<https://www.phoenixcontact.com/us/products/1418866>



## Drawings

Schematic diagram



Connector pin assignment plug RJ45

# VS-IP20/10G-IP20/10G-94F/1 - Patch cable

1418866

<https://www.phoenixcontact.com/us/products/1418866>



## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1418866>



**EAC**

Approval ID: 19060508

# VS-IP20/10G-IP20/10G-94F/1 - Patch cable

1418866

<https://www.phoenixcontact.com/us/products/1418866>



## Classifications

### ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

### ETIM

ETIM 9.0	EC001855
----------	----------

### UNSPSC

UNSPSC 21.0	26121600
-------------	----------

# VS-IP20/10G-IP20/10G-94F/1 - Patch cable

1418866

<https://www.phoenixcontact.com/us/products/1418866>



## 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%
-------------------------------------	----------------------------

Phoenix Contact 2025 © - 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](mailto:info@phoenixcon.com)