

# VS-IP20-IP20-93K-LI/10,0 - Bus system cable



1405310

<https://www.phoenixcontact.com/us/products/1405310>

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.



Assembled Sercos III cable, shielded, star quad, 22 AWG stranded (7-wire), RAL 3020 (traffic red), RJ45 plug/IP20 to RJ45 plug/IP20, length: 10 m

## Commercial data

Item number	1405310
Packing unit	1 pc
Minimum order quantity	25 pc
Note	Made to order (non-returnable)
Product key	ABNABA
GTIN	4046356740319
Weight per piece (including packing)	717.9 g
Weight per piece (excluding packing)	717.9 g
Country of origin	PL

# VS-IP20-IP20-93K-LI/10,0 - Bus system cable



1405310

<https://www.phoenixcontact.com/us/products/1405310>

## Technical data

### Product properties

Product type	Data cable preassembled
Product family	RJ45 INDUSTRIAL PN4 CAT5
Number of positions	4
Shielded	yes


### Interfaces

Signal type/category	Sercos
----------------------	--------

### Cable/line

Cable length	10.00 m
--------------	---------

### Sercos III [93K]

Dimensional drawing	
Shielded	yes
UL AWM Style	21694 (60 °C / 600 V)
Cable weight	68 kg/km
Cable type	Sercos III
Cable type (abbreviation)	93K
Signal type/category	Sercos CAT5 (IEC 11801), 100 Mbps
Cable structure	1x4xAWG22/7, SF/TQ
External cable diameter	6.50 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	signal red RAL 3020
Thickness, outer sheath	approx. 0.90 mm
Material, inner sheath	PVC
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	7x 0.25 mm
AWG signal line	22
Conductor cross-section	4x 0.34 mm <sup>2</sup>
Material wire insulation	PE
Wire diameter incl. insulation	approx. 1.55 mm
Single wire, color	white, yellow, blue, orange
Type of pair shielding	Aluminum-lined polyester foil
Overall twist	Star quad

# VS-IP20-IP20-93K-LI/10,0 - Bus system cable



1405310

<https://www.phoenixcontact.com/us/products/1405310>

Shielding	Tinned copper braided shield
Nominal voltage, cable	600 V
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000.00 V (50 Hz, 1 min.)
Cable resistance	$\leq 120 \Omega/\text{km}$
Cable insulation resistance	$\geq 0.5 \text{ G}\Omega \cdot \text{km}$
Coupling resistance	$\leq 20.00 \text{ m}\Omega/\text{m}$ (at 10 Hz)
Wave impedance	$100 \Omega \pm 15 \Omega$ (at 100 MHz)
Signal runtime	5.3 ns/m
Minimum bending radius, fixed installation	3 x D
Minimum bending radius, flexible installation	7 x D
Resistance to oil	Resistant to oil to a limited extent
Flame resistance	according to UL 1685 (CSA FT 4)
Other resistance	UV resistant (according to UL 1581, Section 1200)
Ambient temperature (operation)	-40 °C ... 70 °C (Cable, flexible installation) -40 °C ... 70 °C (cable, fixed installation)

# VS-IP20-IP20-93K-LI/10,0 - Bus system cable

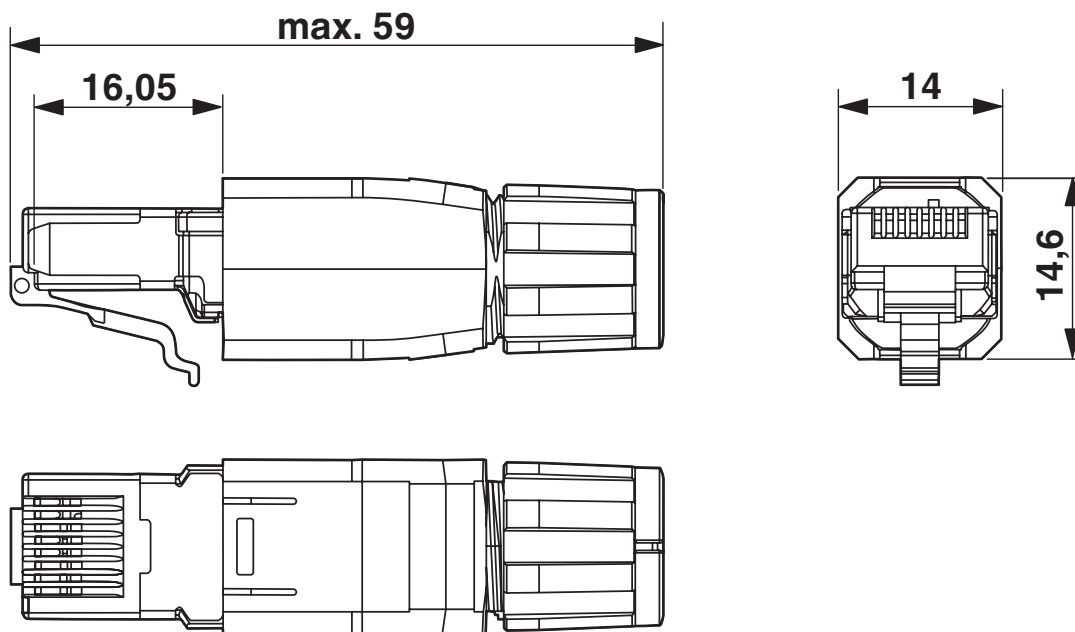


1405310

<https://www.phoenixcontact.com/us/products/1405310>

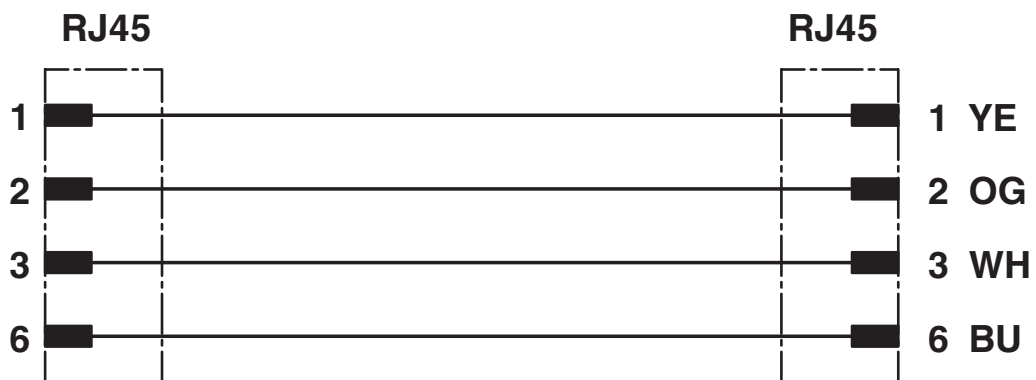
## Drawings

Dimensional drawing



RJ45 connector, IP20

Circuit diagram



# VS-IP20-IP20-93K-LI/10,0 - Bus system cable



1405310

<https://www.phoenixcontact.com/us/products/1405310>

## Classifications

### ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

### UNSPSC

UNSPSC 21.0	26121604
-------------	----------

# VS-IP20-IP20-93K-LI/10,0 - Bus system cable



1405310

<https://www.phoenixcontact.com/us/products/1405310>

## Environmental product compliance

### 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 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](mailto:info@phoenixcon.com)