

1422651

https://www.phoenixcontact.com/us/products/1422651

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.



Network cable, degree of protection: IP20, cable length: 50 m, number of positions: 4, 100 Mbps, CAT5, cable outlet: straight, Ethernet

Your advantages

- · Perfect for industrial applications
- · Perfect for office, building, and protected industrial applications (e.g., in control cabinets)
- · Compact angle

Commercial data

Item number	1422651
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	ABNABD
GTIN	4055626311104
Weight per piece (including packing)	2,060 g
Weight per piece (excluding packing)	2,020.305 g
Country of origin	PL



1422651

https://www.phoenixcontact.com/us/products/1422651

Technical data

Product properties

Product type	Data cable preassembled
Sensor type	Ethernet
Number of positions	4
No. of cable outlets	1
Number of slots	1
Shielded	yes
Cable outlet	straight

Signaling

Status display	No
Status display present	No

Electrical properties

Rated voltage (III/3)	72 V (DC)
Nominal voltage U _N	48 V
Nominal current I _N	1 A
Transmission medium	Copper
Transmission characteristics (category)	CAT5 (IEC 11801:2002)
Transmission speed	100 Mbps

Mechanical properties

Mechanical data

Insertion force per signal contact	50.00 N
Extraction force per signal contact	30 N

Material specifications

Flammability rating according to UL 94	V2
Outer sheath, material	PUR
Conductor material	Bare Cu litz wires

Connector

Connection 1

Туре	Plug straight RJ45
Shielded	yes
Handle color	gray
Material	CuSn (Contact)
	Ni/Au (Contact surface)
	PC (Contact carriers)
	PA (Housing)
Insertion/withdrawal cycles	≥ 750



1422651

https://www.phoenixcontact.com/us/products/1422651

Degree of protection	IP20
Connection 2	
Туре	Plug straight RJ45
Shielded	yes
Handle color	gray
Material	CuSn (Contact)
	Ni/Au (Contact surface)
	PC (Contact carriers)
	PA (Housing)
Insertion/withdrawal cycles	≥ 750
Degree of protection	IP20

Cable/line

Cable length	50.00 m
--------------	---------

Ethernet flexible CAT5, 2-pair [93E]

Dimensional drawing



Shielded	yes
UL AWM Style	20963 (80°C/30 V)
Cable weight	42 kg/km
Cable type	Ethernet flexible CAT5, 2-pair
Short symbol	02YS(ST)C11Y
Cable type (abbreviation)	93E
Signal type/category	Ethernet CAT5 (IEC 11801), 100 Mbps
Cable structure	2x2xAWG26/7, SF/UTP
External cable diameter	6.40 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Thickness, outer sheath	1.20 mm
Conductor material	Bare Cu litz wires
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross section	2x 2x 0.14 mm²
Material wire insulation	Foamed PE
Wire diameter incl. insulation	0.98 mm
Single wire, color	white/orange-orange, white/green-green
Twisted pairs	2 cores to the pair



1422651

https://www.phoenixcontact.com/us/products/1422651

verall twist	Two pairs with two fillers to the core
hielding	Aluminum-coated foil, tinned copper braided shield
ptical shield covering	70 %
urrent carrying capacity of cable	2.00 A (according to DIN VDE 0891-1)
ominal voltage, cable	≤ 100 V (Peak value, not for high-power applications)
est voltage Core/Core	700 V (50 Hz, 1 min.)
est voltage Core/Shield	700.00 V (50 Hz, 1 min.)
able insulation resistance	≥ 500 MΩ*km
oupling resistance	≤ 100.00 mΩ/m (at 10 MHz)
/ave impedance	100 Ω ±5 Ω (at 100 MHz)
oop resistance	≤ 290.00 Ω/km
able capacity	approx. 45 nF/km (at 1 kHz)
gnal runtime	5.3 ns/m
ensile strength	≤ 80 N
inimum bending radius, fixed installation	4 x D
inimum bending radius, flexible installation	8 x D
ear end crosstalk attenuation (NEXT)	65.3 dB (with 1 MHz)
	56.3 dB (at 4 MHz)
	50.3 dB (at 10 MHz)
	47.2 dB (at 16 MHz)
	45.8 dB (at 20 MHz)
	42.9 dB (at 31.25 MHz)
	38.4 dB (at 62.5 MHz)
	35.3 dB (at 100 MHz)
ower-summated near end crosstalk attenuation (PSNEXT)	62.3 dB (with 1 MHz)
	53.3 dB (at 4 MHz)
	47.3 dB (at 10 MHz)
	44.2 dB (at 16 MHz)
	42.8 dB (at 20 MHz)
	39.9 dB (at 31.25 MHz)
	35.4 dB (at 62.5 MHz)
	32.3 dB (at 100 MHz)
eturn attenuation (RL)	23 dB (at 4 MHz)
	24.1 dB (at 8 MHz)
	25 dB (at 10 MHz)
	25 dB (at 16 MHz)
	25 dB (at 20 MHz)
	23.6 dB (at 31.25 MHz)
	21.5 dB (at 62.5 MHz)
	20.1 dB (at 100 MHz)
alogen-free	according to IEC 60754-1
esistance to oil	in accordance with EN 60811-2-1
lame resistance	according to IEC 60332-1-2
	according to 120 00002 1 2



1422651

https://www.phoenixcontact.com/us/products/1422651

	in accordance with UN ECE-R 118.03
Ambient temperature (operation)	-20 °C 80 °C (Cable, flexible installation)
	-40 °C 80 °C (cable, fixed installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C 70 °C (RJ45 connector)

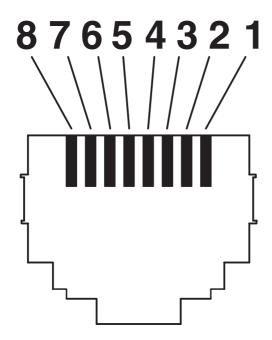


1422651

https://www.phoenixcontact.com/us/products/1422651

Drawings

Schematic diagram



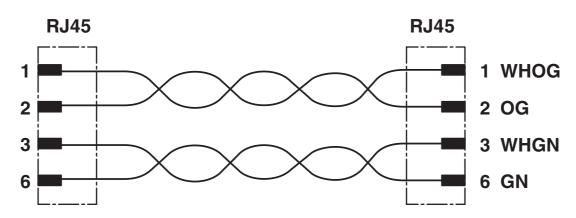
Connector pin assignment plug RJ45



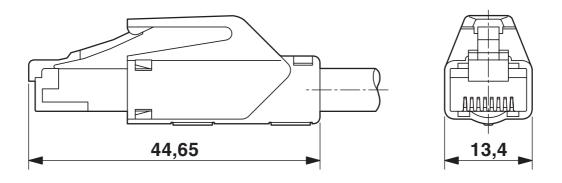
1422651

https://www.phoenixcontact.com/us/products/1422651

Circuit diagram



Dimensional drawing



RJ45 connector, IP20



1422651

https://www.phoenixcontact.com/us/products/1422651

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1422651



EAC

Approval ID: 19060508



1422651

https://www.phoenixcontact.com/us/products/1422651

Classifications

ECLASS

	ECLASS-11.0	27061801		
	ECLASS-12.0	27061801		
	ECLASS-13.0	27060307		
ETIM				
	ETIM 9.0	EC003249		
UNSPSC				
	UNSPSC 21.0	26121600		



1422651

https://www.phoenixcontact.com/us/products/1422651

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 2024 @ - 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