chanhvinh.com

Bus system cable - SAC-4P- 2,0-950/M 8FS

1543294

https://www.phoenixcontact.com/gb/products/1543294

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.



Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, free cable end, on Socket straight M8, cable length: 2 m

Your advantages

- Power cable for actuator voltage
- System cable for supply voltage and bus signal

Commercial Data

Item number	1543294
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF1BJA
Product Key	BF1BJB
Catalog Page	Page 200 (C-6-2019)
GTIN	4046356097451
Weight per Piece (including packing)	103.2 g
Weight per Piece (excluding packing)	100.7 g
Customs tariff number	85444290
Country of origin	PL

chanhvinh.com

Bus system cable - SAC-4P- 2,0-950/M 8FS

1543294

https://www.phoenixcontact.com/gb/products/1543294

Technical Data

Product properties

Product type	Data cable preassembled
Number of positions	4
Application	Standard
No. of cable outlets	1
Shielded	yes
Coding	A - standard

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Interfaces

Bus system	INTERBUS
Signal type/category	INTERBUS

LED signaling

Status display	No
Status display present	No

Electrical properties

Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A
Test voltage	800 V
Transmission medium	Copper

Material specifications

Color Handle area	black
Flammability rating according to UL 94	HB
Sealing material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Cable gland material	Zinc die-cast, nickel-plated

Connection data

Pin assignment

	1 (Socket) = RD (0.34 mm²)

Bus system cable - SAC-4P- 2,0-950/M 8FS

1543294

https://www.phoenixcontact.com/gb/products/1543294

Contact | Color (signal designation) | Contact (optional)	3 (Socket) = BU (0.34 mm²)
	2 (Socket) = YE (0.14 mm²)
	4 (Socket) = GN (0.14 mm²)

Connector

Header 1

Head design	free cable end

Head 2

Head design	Socket
Head cable outlet	straight
Head thread type	M8

Cable / line

Cable length	2 m
Cable weight	41 kg/km
UL AWM Style	20963 (80°C/30 V)
Number of positions	4
Shielded	yes
Cable type	INTERBUS [950]
Conductor structure signal line	19x 0.10 mm
AWG signal line	26
Conductor cross section	2x 0.14 mm² (Signal line)
	2x 0.34 mm² (Power supply)
	1x 0.38 mm² (Drain wire)
Wire diameter incl. insulation	0.97 mm (Signal line)
	1.25 mm (Power supply)
External cable diameter	5.2 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black RAL 9005
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PP
Single wire, color	red-blue, green-yellow
Thickness, insulation	0.24 mm (Conductor insulation, signal line)
	0.25 mm (Conductor insulation, voltage supply)
Thickness, outer sheath	approx. 0.75 mm
Twisted pairs	2 cores to the pair
Type of pair shielding	Aluminum-lined polyester foil
Overall twist	2 pairs around a drain wire in the center to the core
Optical shield covering	85 %
Max. conductor resistance	≤ 150 Ω/km (Signal line)
	≤ 58 Ω/km (Power supply)
Insulation resistance	≥ 20 MΩ*km
Wave impedance	75 Ω ±10 Ω (Signal line)

chanhvinh.com

Bus system cable - SAC-4P- 2,0-950/M 8FS

1543294

https://www.phoenixcontact.com/gb/products/1543294

	55 Ω ±10 Ω (Power supply)
Nominal voltage, cable	≤ 100 V
Test voltage Core/Core	1000 V (50 Hz, 1 min.)
Test voltage Core/Shield	1000 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	7.5 x D
Max. bending cycles	1000000
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-40 °C ... 80 °C (Cable, flexible installation)

Cable structure

Cable type	INTERBUS M8
Signal type/category	INTERBUS
Outer sheath, material	PUR
External sheath, color	black RAL 9005

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)

chanhvinh.com

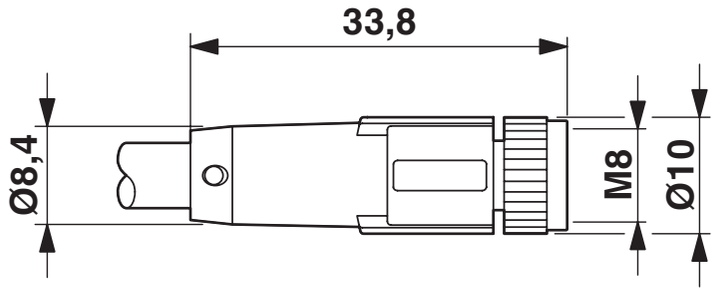
Bus system cable - SAC-4P- 2,0-950/M 8FS

1543294

https://www.phoenixcontact.com/gb/products/1543294

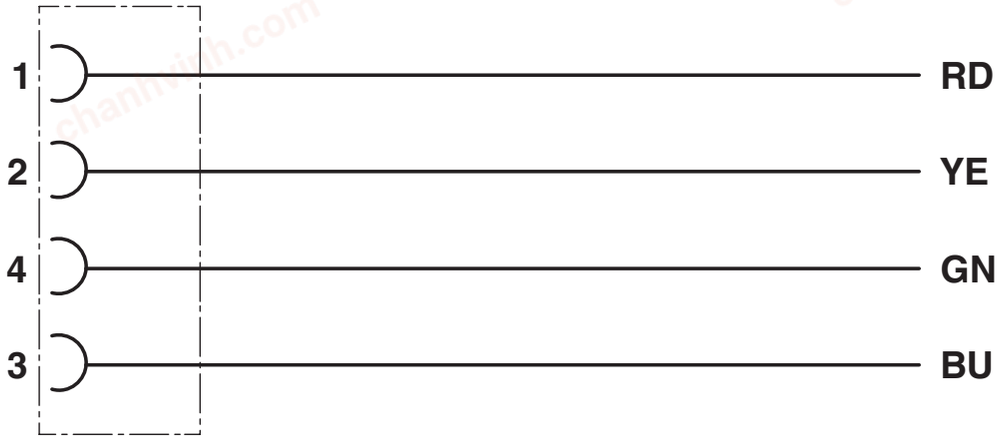
Drawings

Dimensional drawing



Socket M8 x 1, straight, shielded

Circuit diagram



Contact assignment of M8 socket

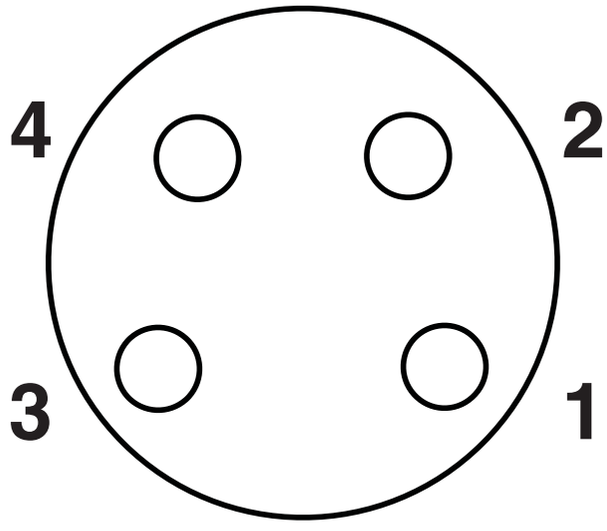
chanhvinh.com

Bus system cable - SAC-4P- 2,0-950/M 8FS

1543294

https://www.phoenixcontact.com/gb/products/1543294

Schematic diagram



Pin assignment M8 socket, 4-pos., view female side

chanhvinh.com

Bus system cable - SAC-4P- 2,0-950/M 8FS

1543294

https://www.phoenixcontact.com/gb/products/1543294

Approvals

EAC
Approval ID: RU C-DE.BL08.B.00286

EAC
Approval ID: RU D-DE.HB35.B.00387

chanhvinh.com

Bus system cable - SAC-4P- 2,0-950/M 8FS

1543294

https://www.phoenixcontact.com/gb/products/1543294

Classifications

ECLASS

ECLASS-9.0	27060308
ECLASS-10.0.1	27060308
ECLASS-11.0	27060307

ETIM

ETIM 8.0	EC001855

UNSPSC

UNSPSC 21.0	26121600

chanhvinh.com

Bus system cable - SAC-4P- 2,0-950/M 8FS

1543294

https://www.phoenixcontact.com/gb/products/1543294

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Phoenix Contact 2022 © - all rights reserved
https://www.phoenixcontact.com

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk