PHŒNIX CONTACT

Bus system cable - VS-MSDBPS-OE-93G-LI/5,0 - 1419141

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's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)

Assembled EtherCAT® cable, shielded, star quad, 22 AWG stranded (7-wire), RAL 6018 (yellow-green), M12 flush-type plug, rear mounting, SPEEDCON, 4-pos. on free conductor end, length: 5 m

Product Features

■ Pre-assembled with cables in various standard lengths for immediate use

■ Customer-specific assemblies and cable lengths can be supplied

■ Sealed on the cable side for optimum tightness of seal

■ Cable designs for all common networks and fieldbuses

■ For high transmission safety: shield connection to the housing with optional EMC nut

EtherCAT. Technology Group

Key Commercial Data

Packing unit	1 pc
Custom tariff number	85444290
Country of origin	Germany

Technical data

Dimensions

Length of cable	5 m

Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C (cable, fixed installation)
Degree of protection	IP65
	IP67

General

Rated current at 40°C	4 A
Rated voltage	250 V
Rated surge voltage	2.5 kV
Number of positions	4

PHŒNIX
CONTACT

Bus system cable - VS-MSDBPS-OE-93G-LI/5,0 - 1419141

Technical data

General

Insulation resistance	$\geq$ 100 MΩ
Coding	D - data
Signal type/category	EtherCAT®
Overvoltage category	II
Degree of pollution	3
Insertion/withdrawal cycles	$\geq$ 100
Torque	2 Nm ... 3 Nm (Installation-side)

Material

Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA 66
Sealing material	FKM

Standards and Regulations

Flammability rating according to UL 94	V0

Cable

Cable type	PROFINET PVC stranded CAT5
Cable type (abbreviation)	93B
Cable abbreviation	2YY(ST)CY
UL AWM style	21694
Cable structure	1x4xAWG22/7; SF/TQ
Conductor cross section	4x 0.34 mm²
AWG signal line	22
Conductor structure signal line	7x 0.25 mm
Core diameter including insulation	1.55 mm
Wire colors	White, yellow, blue, orange
Overall twist	Star quad
Shielding	Aluminum-coated foil, tinned copper braided shield
Optical shield covering	85 %
External sheath, color	green RAL 6018
Outer sheath thickness	approx. 0.9 mm
External cable diameter D	6.5 mm ±0.2 mm
Minimum bending radius, fixed installation	3 x D
Minimum bending radius, flexible installation	7 x D
Cable weight	67 kg/km
Outer sheath, material	PVC

PHŒNIX CONTACT

Bus system cable - VS-MSDBPS-OE-93G-LI/5,0 - 1419141

Technical data

Cable

Material, inner sheath	PVC
Material conductor insulation	PE
Conductor material	Tin-plated Cu litz wires
Insulation resistance	$\geq$ 500 MΩ*km
Loop resistance	$\leq$ 120 Ω (per kilometer)
Wave impedance	100 Ω ±15 Ω (at 100 MHz)
Signal speed	0.66 c
Signal runtime	5.3 ns/m
Coupling resistance	$\leq$ 20.00 mΩ/m (At 10 MHz)
Nominal voltage, cable	600 V
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000 V (50 Hz, 1 min.)
Flame resistance	According to UL 1685 (CSA FT 4)
Resistance to oil	Resistant to oil to a limited extent
Other resistance	UV resistant According to UL 1581, Section 1200
Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation)
	-40 °C ... 70 °C (cable, flexible installation)

Classifications

eCl@ss

eCl@ss 4.0	27060307
eCl@ss 4.1	27060307
eCl@ss 5.0	27061801
eCl@ss 5.1	27060307
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27440103
eCl@ss 9.0	27440102

ETIM

ETIM 2.0	EC000830
ETIM 3.0	EC000830
ETIM 4.0	EC002599
ETIM 5.0	EC002061

UNSPSC

UNSPSC 6.01	26121616

PHŒNIX CONTACT

Bus system cable - VS-MSDBPS-OE-93G-LI/5,0 - 1419141

Classifications

UNSPSC

UNSPSC 7.0901	26121616
UNSPSC 11	26121604
UNSPSC 12.01	26121616
UNSPSC 13.2	26121616

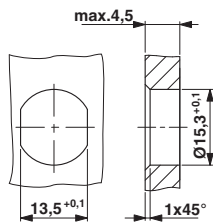## Approvals

Approvals

Approvals

EAC

Ex Approvals

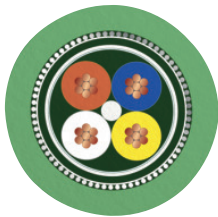Approvals submitted

Approval details

EAC

Drawings

Dimensional drawing

Housing cutout for Pg9 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)

Cable cross section

PROFINET PVC stranded CAT5 [93B]

PHŒNIX CONTACT

Bus system cable - VS-MSDBPS-OE-93G-LI/5,0 - 1419141

Dimensional drawing
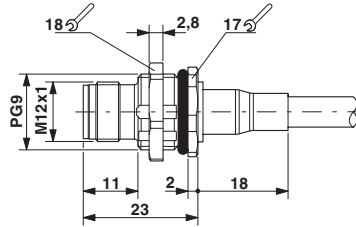
M12 panel feed-through

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Phoenix Contact](#):
  [1419141](#)