

# VS-M12MSD-M12MSD-93E-LI/ 3,0 - Bus system cable



1404122

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Bus system cable, PUR halogen-free, water blue RAL 5021



## Commercial data

Item number	1404122
Packing unit	1 pc
Minimum order quantity	50 pc
Product key	AF1CCK
GTIN	4046356680325
Weight per piece (including packing)	165.8 g
Weight per piece (excluding packing)	165.8 g
Country of origin	PL

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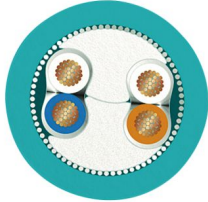
## Technical data

### Product properties

Product type	Data cable preassembled
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### Cable/line

Ethernet [93E]

Dimensional drawing	
Cable weight	43 kg/km
Number of positions	4
Shielded	yes
Cable type	Ethernet [93E]
Conductor structure	2x2xAWG26/7, SF/UTP
Signal runtime	4.3 ns/m
Signal speed	0.77 c
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross-section	2x 2x 0.14 mm <sup>2</sup>
Wire diameter incl. insulation	1 mm -0.2 mm
External cable diameter	5.75 mm ±0.15 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Conductor material	Bare Cu litz wires
Material wire insulation	Foam-Skin PE
Single wire, color	white/orange-orange, white/green-green
Twisted pairs	2 cores to the pair
Overall twist	Two pairs with two fillers to the core
Optical shield covering	85 %
Max. conductor resistance	≤ 284 Ω/km
Insulation resistance	≥ 5 GΩ*km
Coupling resistance	≤ 5.00 mΩ/m (at 20 MHz)
Wave impedance	100 Ω ±15 % (at 1 ... 100 MHz)
Cable capacity	nom. 48 nF/km (At 800 Hz)
Nominal voltage, cable	50 V <sub>rms</sub> 125 V (Peak value, not for high-power applications)

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Test voltage Core/Core	1000 V <sub>rms</sub>
Test voltage Core/Shield	500.00 V <sub>rms</sub>
Smallest bending radius, fixed installation	30 mm (cable, fixed installation)
Smallest bending radius, movable installation	78 mm (Cable, flexible installation)
Tensile strength	≤ 50 N (temporary) ≤ 10 N (Permanent)
Near end crosstalk attenuation (NEXT)	66 dB/m (with 1 MHz) 57 dB/m (at 4 MHz) 52 dB/m (at 10 MHz) 50 dB/m (at 16 MHz) 47 dB/m (at 20 MHz) 45 dB/m (at 31.25 MHz) 40 dB/m (at 62.5 MHz) 36 dB/m (at 100 MHz)
Crosstalk attenuation (ACR)	6.57 dB/m (with 1 MHz) 5.64 dB/m (at 4 MHz) 5.12 dB/m (at 10 MHz) 4.89 dB/m (at 16 MHz) 4.57 dB/m (at 20 MHz) 4.34 dB/m (at 31.25 MHz) 3.77 dB/m (at 62.5 MHz) 3.31 dB/m (at 100 MHz)
Shield attenuation	0.028 dB/m (with 1 MHz) 0.06 dB/m (at 4 MHz) 0.085 dB/m (at 10 MHz) 0.115 dB/m (at 16 MHz) 0.128 dB/m (at 20 MHz) 0.162 dB/m (at 31.25 MHz) 0.23 dB/m (at 62.5 MHz) 0.29 dB/m (at 100 MHz)
Flame resistance	according to VDE 0482 Part 265-2-1 according to IEC 332-1
Ambient temperature (operation)	-30 °C ... 80 °C (cable, fixed installation)
Ambient temperature (installation)	-5 °C ... 60 °C

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## Classifications

### ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

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