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Bus system cable, VARAN (100 Mbps), 6-position, SANTOPRENE halogen-free, black RAL 9005, shielded, cable length: 6 m



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	50 pc
GTIN	4 055626 282275
GTIN	4055626282275

Technical data

Dimensions

Length of cable	6 m

General

Rated current at 40°C	2 A
Rated voltage	30 V AC
	30 V DC
Number of positions	6
Coding	A - standard
Signal type/category	VARAN, 100 Mbps
Status display	No
Overvoltage category	Ш
Degree of pollution	3

Material

Flammability rating according to UL 94	НВ
Contact material	CuZn



Technical data

Material

Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR

Standards and Regulations

Flammability rating according to UL 94	НВ
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Cable

Conductor cross section 4x 0.25 m 2x 0.38 m AWG signal line 24 AWG power supply 22 Conductor structure signal line 19x 0.13 m Conductor structure, voltage supply 19x 0.16 m Core diameter including insulation 1.35 mm (F Wire colors Brown, bit Type of pair shielding Tinned coloreall twist 1 star qual	m Signal line) ower supply) e, white/orange, white/green, green, orange
Cable abbreviation Li9YD12Y Cable structure 1x2xAWG Conductor cross section 4x 0.25 m AWG signal line 2x 0.38 m AWG power supply 22 Conductor structure signal line 19x 0.13 m Conductor structure, voltage supply 19x 0.16 m Core diameter including insulation 1.35 mm m Wire colors Brown, bli Type of pair shielding Tinned co Overall twist 1 star qua Shielding Tinned co External sheath, color black RAL External cable diameter D 7.8 mm ± Smallest bending radius, fixed installation ≥ 93 mm Smallest bending radius, movable installation ≥ 93 mm Number of bending cycles 3000000 Bending radius 93 mm Traversing path 2 m	m² (Signal line) m² (Power supply) m m signal line) ower supply) e, white/orange, white/green, green, orange
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Shielding Tinned co External sheath, color black RAL External cable diameter D 7.8 mm ± Smallest bending radius, fixed installation ≥ 93 mm Smallest bending radius, movable installation ≥ 93 mm Number of bending cycles 3000000 Bending radius 93 mm Traversing path 2 m	per braided shield, 95 % covering
External sheath, color black RAL External cable diameter D 7.8 mm ± Smallest bending radius, fixed installation ≥ 93 mm Smallest bending radius, movable installation ≥ 93 mm Number of bending cycles 3000000 Bending radius 93 mm Traversing path 2 m	and 2 wires with 2 fillers
External cable diameter D 7.8 mm ± Smallest bending radius, fixed installation ≥ 93 mm Smallest bending radius, movable installation ≥ 93 mm Number of bending cycles 3000000 Bending radius 93 mm Traversing path 2 m	per-braided shield, approx. 85% covering
	9005
	2 mm
Number of bending cycles3000000Bending radius93 mmTraversing path2 m	
Bending radius 93 mm Traversing path 2 m	
Traversing path 2 m	
Traversing rate 1 m/s	
Acceleration 2 m/s ²	
Cable weight 81 kg/km	
Outer sheath, material SANTOPI	ENE halogen-free
Material, inner sheath TPE	
Material, filler Yarn	
Material conductor insulation PP	
Conductor material Bare Cu li	
Insulation resistance 5 GΩ*km	z wires



Technical data

Cable

Conductor resistance	77 Ω/m (Data cable)
Transmission characteristics (category)	CAT5 (IEC 11801:2002)
Working capacitance	50 nF (Data cable)
Wave impedance	100 Ω ±15 %
Nominal voltage, cable	125 V (Data cable)
	48 V (Power supply)
Test voltage, cable	2000 V (Power supply)
	max. 700 V AC (Data cable)
Halogen-free	in accordance with DIN EN 50267-2-1
Ambient temperature (operation)	-20 °C 80 °C (Cable)

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Schematic diagram



Pin assignment M12 plug, 8-pos., view plug side

Schematic diagram

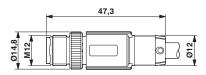


Pin assignment M12 socket, 8-pos., A-coded, view female side

Cable cross section



Dimensional drawing



VARAN [970]

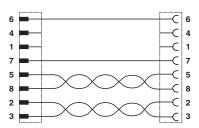
Plug, M12 x 1, straight, shielded



Dimensional drawing

44,5 21W 015

Circuit diagram



M12 x 1 socket, straight, shielded

Contact assignment of the M12 connector and the M12 socket

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