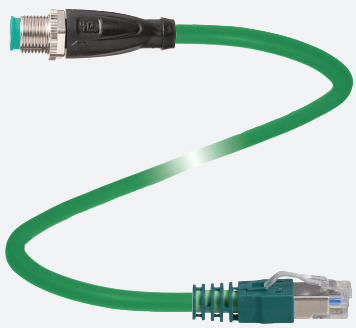


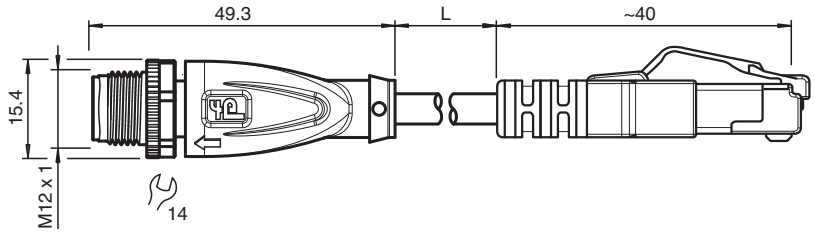
Connection cable, Ethernet

V1SD-G-GN0,3M-PUR-E1S-V45-G

- Hard-wearing PUR cable
- Suitable for drag chains and abrasion resistant
- D coding for Ethernet
- Conforms to PROFINET
- CAT5/CAT5e cable
- Degree of protection IP20
- Free of paint wetting interfering substances
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Ethernet bus cable M12 plug straight D-coded to RJ45 Ethernet-coded, 4-pin, PUR cable green, Cat5e, shielded, drag chain suitable

Dimensions



Technical Data

General specifications		
Connector 1		
Connection		plug
Construction type		M12
Style		straight
Locking		screw connection
Number of pins		4
Coding		D-coded
Connector 2		
Connection		plug
Construction type		RJ45
Style		straight
Locking		snap locking
Number of pins		8
Coding		EtherNet/IP / PROFINET
Electrical specifications		
Operating voltage	U_B	max. 48 V AC / 60 V DC
Operating current	I_B	max. 1 A
Conformity		
Degree of protection		EN 60529
Plug connection		connector M12 x 1 : IEC 61076-2-101 connector RJ45 : IEC 60603-7
Component category		CAT5 (IEC 11801) , CAT5e (IEC 61156-6)

Release date: 2026-02-11 Date of issue: 2026-02-11 Filename: 70183229_eng.pdf

Technical Data

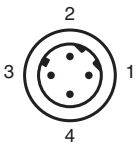
Flammability		IEC 60332-1-2 / UL 2556 / ISO 6722-1 5.22 (UN ECE-R 118.01)
Ambient conditions		
Ambient temperature		
Connector 1		-40 ... 90 °C (-40 ... 194 °F)
Cable, fixed installation		-30 ... 70 °C (-22 ... 158 °F)
Cable, flexing		-20 ... 70 °C (-4 ... 158 °F)
Mechanical specifications		
Connector 1		
Tightening torque		0.6 Nm
Loosening protection		integrated
Tool installation		straight knurling and hexagon nut SW = 14 mm
Mating cycles		min. 100
Shielding		shield connected to screw connection
Degree of protection		IP66 / IP68 / IP69
Connector 2		
Loosening protection		integrated
Mating cycles		min. 100
Shielding		shield connected to connector
Degree of protection		IP20
Cable		according to IEC/EN 60228 (DIN VDE 0295) class 5
Sheath diameter		6 mm
Bending radius		> 10 x cable diameter, movable installation > 8 x cable diameter, fixed installation
Sheath stripping force		max. 60 N / 100 mm
Sheath color		green (similar to RAL 6018)
Number of cores		4
Core cross section		0.34 mm^2 / 22 AWG
Cores color		Core 1-1: yellow Core 2-3: white Core 3-2: orange Core 4-6: blue
Core construction		7 x 0.254 mm Ø twisted quad
Shield		aluminum-lined polyester foil Tinned copper braiding
Length	L	0.3 m
Drag chain suitability		
Drag chain cycles		max. 1000000
Motion velocity		max. 3 m/s
Traverse distance		max. 5 m
Acceleration		max. 2 m/s^2
Mass		41 g
Material		
PWIS free		yes
Halogen-free		yes
Connector 1		
Screw connection		Zinc diecast, nickel-plated
Body		TPU, black
Contact surface		gold plated (Au)
Flammability		V-2
Connector 2		
Body		PA, green
Flammability		V-0
Cable		
Sheathing		PUR based on polyether

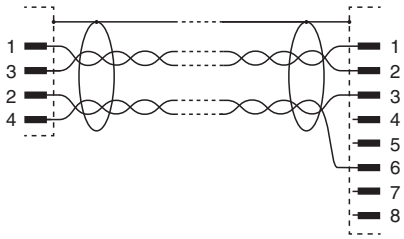
Release date: 2026-02-11 Date of issue: 2026-02-11 Filename: 70183229_eng.pdf

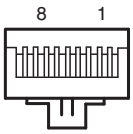
Technical Data

Cores	bare copper (Cu)
Core insulation	PP
Flammability	FT2 complies with UN ECE-R 118.01
General information	
Cable marking sleeve	2x PUR transparent , fixed to cable

Connection Assignment







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