

1407526

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Network cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, PVC/PVC, green RAL 6018, shielded (Advanced Shielding Technology), Plug straight M12, coding: D / IP67, on Plug straight M12 / IP67, cable length: 5 m

Commercial data

Item number	1407526
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AF1CJN
Product key	AF1CJN
Catalog page	Page 198 (C-6-2019)
GTIN	4046356778312
Weight per piece (including packing)	350 g
Weight per piece (excluding packing)	355.3 g
Customs tariff number	85444290
Country of origin	PL

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Technical data

Notes

	General	This product corresponds to the PROFINET Cabling and Interconnection Technology Guideline for PROFINET regulations, version 2.00, order no: 2.252, Chapter 10.1 Cord Sets for Balanced Cabling
Pro	oduct properties	
	Product type	Data cable preassembled
	Application	Standard
	Sensor type	PROFINET
	Number of positions	4
	Shielded	yes
Inte	erfaces	
	Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps
		EtherCAT® CAT5 (IEC 11801), 100 Mbps
Ele	ctrical properties	
	Nominal voltage U _N	48 V AC
		60 V DC
	Nominal current I _N	4 A
	Transmission medium	Copper

Connector

Connection 1

Dimensional drawing



Pin assignment M12 male connector, 4-pos., D-coded, male side

Туре	M12 Plug, straight, 4-position, shielded (Advanced Shielding Technology), Keying: D
Number of positions	4
Shielded	yes
Shielding	Advanced Shielding Technology
Signal type/category	EtherCAT® CAT5 (IEC 11801), 100 Mbps
	PROFINET CAT5 (IEC 11801)
Insertion/withdrawal cycles	≥ 100
Insulation resistance	≥ 100 MΩ
Overvoltage category	11



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Degree of pollution	3
Tightening torque	0.4 Nm
Material Contact	CuSn
Material Contact surface	Ni/Au
Material Contact carrier	PA 6.6
Material Screw connection	Die-cast zinc, nickel-plated
Material Grip body	TPU, hardly inflammable, self-extinguishing
Material Seal	FKM
Flammability rating according to UL 94	V0
Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C 85 °C
Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101

Connection 2

Dimensional drawing



Pin assignment M12 male connector, 4-pos., D-coded, male side

Туре	M12 Plug, straight, 4-position, shielded (Advanced Shielding Technology), Keying: D
Number of positions	4
Shielded	yes
Shielding	Advanced Shielding Technology
Signal type/category	EtherCAT® CAT5 (IEC 11801), 100 Mbps
	PROFINET CAT5 (IEC 11801)
Insertion/withdrawal cycles	≥ 100
Insulation resistance	≥ 100 MΩ
Overvoltage category	II
Degree of pollution	3
Tightening torque	0.4 Nm
Material Contact	CuSn
Material Contact surface	Ni/Au
Material Contact carrier	PA 6.6
Material Screw connection	Die-cast zinc, nickel-plated
Material Grip body	TPU, hardly inflammable, self-extinguishing
Material Seal	FKM
Flammability rating according to UL 94	VO
Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C 85 °C



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Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Standards/regulations	
ole/line	
Cable length	5 m
ROFINET PVC stranded CAT5 [93B]	
Dimensional drawing	
UL AWM Style	21695 (80 °C / 600 V)
Number of positions	4
Shielded	yes
Cable type	PROFINET PVC stranded CAT5 [93B]
Conductor structure	1x4xAWG22/7, SF/TQ
AWG signal line	22
Conductor cross section	4x 0.34 mm ²
Wire diameter incl. insulation	1.5 mm ±0.1 mm
External cable diameter	6.50 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	green RAL 6018
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PE
Single wire, color	white, yellow, blue, orange
Overall twist	Star quad
Optical shield covering	85 %
Insulation resistance	≥ 5 GΩ*km
Loop resistance	≤ 120.00 Ω/km
Wave impedance	100 Ω ±5 Ω (at 100 MHz)
Nominal voltage, cable	≤ 600 V
Test voltage Core/Core	2000 V ((50 Hz/1 min))
Test voltage Core/Shield	2000.00 V ((50 Hz/1 min))
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Flame resistance	UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1)
	UL 1685 (CSA FT 4)
	UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2)
Resistance to oil	OIL RES I according to UL 2256
Other resistance	UV resistant (according to UL 1581, Section 1200)



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Ambient temperature (operation)

-40 °C ... 80 °C (cable, fixed installation) -10 °C ... 70 °C (Cable, flexible installation)



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Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded



Pin assignment M12 male connector, 4-pos., D-coded, male side



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Circuit diagram



Contact assignment of the M12 plugs



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Approvals

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	UL Listed Approval ID: FILE E 335024
•	CUL Listed Approval ID: FILE E 335024
EAC	EAC-RoHS Approval ID: RU D-DE.HB35.B.00387
· B	CUL Listed Approval ID: FILE E 335024
	UL Listed Approval ID: FILE E 335024
EAC	EAC-RoHS Approval ID: RU D-DE.HB35.B.00387



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Classifications

ECLASS

	ECLASS-13.0	27060307
E٦	ΓIM	
	ETIM 9.0	EC001855
U	NSPSC	
	UNSPSC 21.0	26121600
	0101 00 21.0	20121000

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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