

SAC-MS/50,0-94H/MS HYB SCO - Hybrid cable



1405673

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Assembled Ethernet cable, CAT5e, shielded, 8-pair, 26 AWG stranded (19-wire), RAL 9005 (black), M12 hybrid plug to M12 hybrid plug, length: 50.0 m

Commercial data

Item number	1405673
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	AF1CML
GTIN	4046356752978
Weight per piece (including packing)	4,431.3 g
Weight per piece (excluding packing)	4,431.3 g
Country of origin	PL

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Technical data

Product properties

Product type	Data cable preassembled
Sensor type	Ethernet
Number of positions	8
No. of cable outlets	1
Shielded	yes
Coding	Y

Insulation characteristics

Degree of pollution	2
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Interfaces

Bus system	Ethernet
Signal type/category	Ethernet CAT5 (IEC 11801:2002)

Signaling

Status display	no
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Electrical properties

Nominal voltage U_N	30 V AC (Power and data)
	30 V DC
Nominal current I_N	6 A (Power)
	0.5 A (Data)
Transmission medium	Copper
Transmission characteristics (category)	CAT5 (IEC 11801:2002)

Material specifications

Flammability rating according to UL 94	V0
Material for screw connection	Zinc die-cast, nickel-plated

Connector

Connection 1

Type	Plug straight M12 SPEEDCON / IP65
Number of positions	8 (4+4)
Locking type	SPEEDCON
Coding type	Y (Hybrid)
Shielded	yes
Handle color	black
Degree of protection	IP65
	IP67

Connection 2

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Type	Plug straight M12 SPEEDCON / IP65
Number of positions	8 (4+4)
Locking type	SPEEDCON
Coding type	Y (Hybrid)
Shielded	yes
Handle color	black
Degree of protection	IP65
	IP65

Cable/line

Cable length	50 m
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Ethernet hybrid [94H]

Dimensional drawing	
Cable weight	87 kg/km
UL AWM Style	20963 (80°C/30 V)
Number of positions	8
Shielded	yes
Cable type	Ethernet hybrid [94H]
Conductor structure	1x4xAWG26 + 1x4xAWG20
Conductor structure signal line	19x 0.10 mm
AWG signal line	26
Conductor structure, voltage supply	19x 0.20 mm
AWG power supply	20
Conductor cross-section	4x 0.15 mm ² (Data) 4x 0.6 mm ² (Power)
Wire diameter incl. insulation	1.05 mm (Data) 1.4 mm (Power)
External cable diameter	7.60 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black RAL 9005
Conductor material	Bare Cu litz wires
Material wire insulation	PP (Data) PP (Power)
Single wire, color	white/orange, orange, white/green, green, white, blue, brown, black
Overall twist	1 star quad and 4 wires with 2 fillers

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Optical shield covering	85 %
Insulation resistance	≥ 5 GΩ*km
Loop resistance	≤ 280.00 Ω/km (Data)
	≤ 34.60 Ω/km (Power)
Wave impedance	100 Ω ±15 Ω (4 MHz ... 100 MHz)
Working capacitance	nom. 50 nF (per kilometer)
Differential impedance	100 Ω ±5 % (at 100 MHz)
Nominal voltage, cable	≤ 50 V (Peak value, not for high-power applications)
Test voltage Core/Core	1500 V (50 Hz, 1 min.)
Test voltage Core/Shield	1500.00 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	38 mm
Smallest bending radius, movable installation	76 mm
Dynamic load capacity (bending)	Max. bending cycles: 2000000, Traversing path: 4.5 m, Traversing rate: 3 m/s, Acceleration: 4 m/s ²
Tensile strength	70 N (in accordance with DIN EN 50565-1 for flexible installation)
	240 N (in accordance with DIN EN 50565-1 for fixed installation)
Near end crosstalk attenuation (NEXT)	56.3 dB (at 4 MHz)
	50.3 dB (at 10 MHz)
	47.2 dB (at 16 MHz)
	45.8 dB (at 20 MHz)
	42.9 dB (at 31.25 MHz)
	38.4 dB (at 62.5 MHz)
	35.3 dB (at 100 MHz)
Shield attenuation	6 dB (at 4 MHz)
	9.5 dB (at 10 MHz)
	12.1 dB (at 16 MHz)
	13.5 dB (at 20 MHz)
	17.1 dB (at 31.25 MHz)
	24.8 dB (at 62.5 MHz)
	32 dB (at 100 MHz)
	≥ 80.00 dB (30 MHz ... 125 MHz)
Halogen-free	according to IEC 60754
	in accordance with DIN VDE 0472 part 815
Flame resistance	in acc. with UL 1581, section 1061
	in acc. with UL 1581, section 1061
Resistance to oil	according to IEC 60811-2-1
	according to VDE 0282 Part 10
Other resistance	Low adhesion
Special properties	Free of substances which would hinder coating with paint or varnish
	Silicone-free
Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation)

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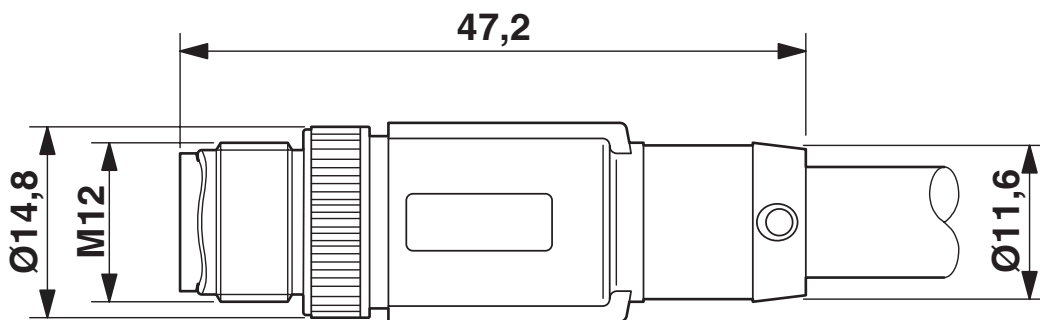
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-30 °C ... 70 °C (Cable, flexible installation)

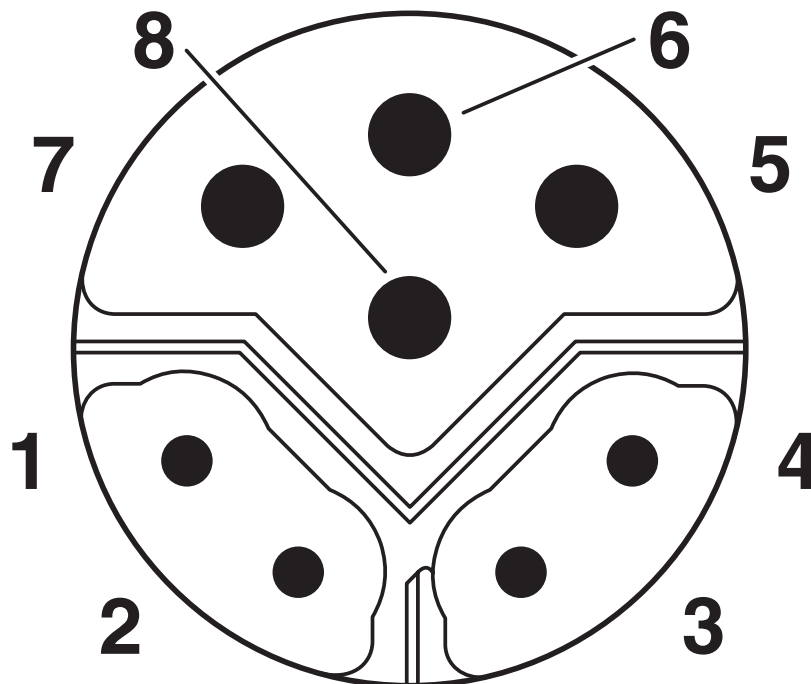
Drawings

Dimensional drawing



M12 connector, straight, shielded

Schematic diagram



M12 hybrid connector pin assignment, 8-pos., pin side view

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Circuit diagram



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Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

UNSPSC

UNSPSC 21.0	26121600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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