

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



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 752978
GTIN	4046356752978

Technical data

Dimensions

Length of cable	50 m
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Ambient conditions

Degree of protection	IP65
	IP67

General

Rated current at 40°C	6 A (Power)
	0.5 A (Data)
Rated voltage	30 V AC (Power and data)
	30 V DC
Number of positions	8
Coding	Y - hybrid
Signal type/category	Ethernet CAT5 (IEC 11801:2002)
Status display	No
Degree of pollution	2

Material

Flammability rating according to UL 94	V0
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Technical data

Material

Material, knurls	Zinc die-cast, nickel-plated
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Standards and Regulations

Flammability rating according to UL 94	V0
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Cable

Cable type	Ethernet hybrid
Cable type (abbreviation)	94H
UL AWM style	20963 (80°C/30 V)
Cable structure	1x4xAWG26+1x4xAWG20
Conductor cross section	4x 0.15 mm ² (Data)
	4x 0.6 mm ² (Power)
AWG signal line	26
AWG power supply	20
Conductor structure signal line	19x 0.10 mm
Conductor structure, voltage supply	19x 0.20 mm
Core diameter including insulation	1.05 mm (Data)
	1.4 mm (Power)
Wire colors	White/orange, orange, white/green, green, white, blue, brown, black
Overall twist	1 star quad and 4 wires with 2 fillers
Shielding	Tinned copper braided shield
Optical shield covering	85 %
External sheath, color	black RAL 9005
External cable diameter D	7.6 mm ±0.2 mm
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	2000000
Minimum bending radius, drag chain applications	10 x D
Traversing path	4.5 m
Traversing rate	3 m/s
Acceleration	3 m/s ²
Cable weight	87 kg/km
Tensile strength GRP	70 N (in accordance with DIN EN 50565-1 for flexible installation)
	240 N (in accordance with DIN EN 50565-1 for fixed installation)
Outer sheath, material	PUR
Material conductor insulation	PP (Data)
	PP (Power)
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 5 GΩ*km
Loop resistance	≤ 280.00 Ω/km (Data)
	≤ 34.60 Ω/km (Power)
Transmission characteristics (category)	CAT5 (IEC 11801:2002)

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Technical data

Cable

Working capacitance	nom. 50 nF (per kilometer)
Wave impedance	100 Ω ±15 Ω (4 MHz ... 100 MHz)
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)
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)
Shield attenuation	≥ 80 dB (30 MHz ... 125 MHz)
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 V (50 Hz, 1 min.)
Special properties	Free of substances which would hinder coating with paint or varnish
	Silicone-free
Flame resistance	in acc. with UL 1581, section 1061
Halogen-free	according to IEC 60754
	in accordance with DIN VDE 0472 part 815
Resistance to oil	according to IEC 60811-2-1
	according to VDE 0282 Part 10
Other resistance	Low adhesion
Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation)
	-30 °C ... 70 °C (cable, flexible installation)

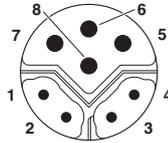
Environmental Product Compliance

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

Hybrid cable - SAC-MS/50,0-94H/MS HYB SCO - 1405673

Schematic diagram



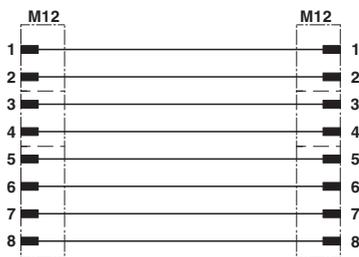
M12 hybrid connector pin assignment, 8-pos., pin side view

Cable cross section

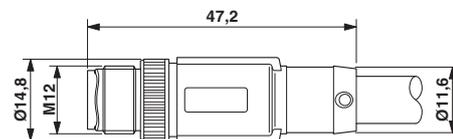


Ethernet hybrid [94H]

Circuit diagram



Dimensional drawing



M12 connector, straight, shielded

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