

Master cable - SAC-6P-10,0-PURMC/M12FR - 1407821

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M12 socket, angled, 6-pos., with connected master cable, for sensor/actuator box with M8 slots, cable length: 10 m



Key Commercial Data

Packing unit	1 STK
Custom tariff number	85444290
Country of origin	Poland

Technical data

Ambient conditions

Ambient temperature (operation)	-25 °C ... 80 °C (Plug / socket)
Degree of protection	IP65
	IP67
	IP68

General

Rated voltage	30 V
Number of positions	6
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Connection method	Fixed connection
Torque	0.4 Nm (M12 connector)

Material

Flammability rating according to UL 94	HB
Contact material	CuZn

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Technical data

Material

Contact surface material	Ni/Au
Contact carrier material	TPU GF
Sealing material	NBR

Connection assignment

Slot/position = pin = conductor color	1 / 4 (A) = P = WH
	2 / 4 (A) = J = GN
	3 / 4 (A) = T = YE
	4 / 4 (A) = S = GY
	1-4 / 1 (+ 24 V) = A = BN
	1-4 / 3 (0 V) = L = BU

Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Flammability rating according to UL 94	HB

Cable

Cable type	PUR/PVC black
Cable type (abbreviation)	PUR MC
Cable abbreviation	LiYY-11Y
UL AWM style	20549
Conductor cross section	6x 0.25 mm ² (Signal line)
AWG signal line	24
Conductor structure signal line	32x 0.10 mm
Core diameter including insulation	1.22 mm ±0.02 mm
Thickness, insulation	≥ 0.23 mm (Core insulation)
Wire colors	white, brown, green, yellow, gray, blue
Overall twist	Six cores around the filler to the core
Length of twist, overall twist	66 mm
External sheath, color	black-gray RAL 7021
Outer sheath thickness	≥ 0.38 mm
External cable diameter D	5 mm ±0.02 mm
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Cable weight	37 kg/km
Outer sheath, material	PUR
Material, inner sheath	PVC
Material, filler	PP yarn

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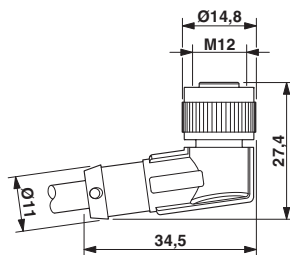
Technical data

Cable

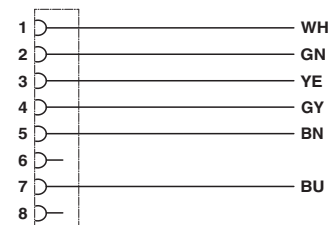
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	$\geq 200 \text{ M}\Omega \cdot \text{km}$ (at 20 °C)
Conductor resistance	78 Ω/km (at 20 °C)
Nominal voltage, cable	$\leq 300 \text{ V AC}$
Test voltage, cable	$\geq 3000 \text{ V AC}$ (Spark test)
Special properties	Flexible use, however not recommended for use in drag chains
	Low adhesion surface
	wear-resistant and notch tough
Flame resistance	according to UL 758/1581 (horizontal)
	in accordance with UL 758/1581 FT2
Resistance to oil	According to DIN EN 60811-2-1, 168 h at 100°C
Other resistance	hydrolysis and microbe resistant
	Resistant to salt water
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-20 °C ... 80 °C (cable, flexible installation)

Drawings

Dimensional drawing



Circuit diagram



M12 x 1 socket, angled

Classifications

eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27061801

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Classifications

eCl@ss

eCl@ss 6.0	27279218
eCl@ss 7.0	27279218
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

ETIM

ETIM 3.0	EC000830
ETIM 4.0	EC001855
ETIM 5.0	EC001855

UNSPSC

UNSPSC 6.01	30211923
UNSPSC 7.0901	39121522
UNSPSC 11	39121522
UNSPSC 12.01	39121522
UNSPSC 13.2	39121522