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M12 socket, angled, 8-pos., with connected master cable, for sensor/actuator box with M8 slots, cable length: 5 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	8
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	НВ
Contact material	CuZn



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
	5 / 4 (A) = G = PK
	6 / 4 (A) = R = RD
	1-6 / 1 (+ 24 V) = A = BN
	1-6 / 3 (0 V) = L = BU

Standards and Regulations

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

Cable

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y11Y
UL AWM style	20549 / 10493 (80°C/300 V)
Conductor cross section	8x 0.25 mm²
AWG signal line	24
Conductor structure signal line	32x 0.10 mm
Core diameter including insulation	1.17 mm ±0.02 mm
Thickness, insulation	≥ 0.21 mm
Wire colors	white, brown, green, yellow, gray, pink, blue, red
Overall twist	8 wires around filler to the core
External sheath, color	black-gray RAL 7021
Outer sheath thickness	approx. 0.8 mm
External cable diameter D	5.9 mm ±0.15 mm
Minimum bending radius, fixed installation	8 x D
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	4000000
Bending radius	59 mm
Traversing path	10 m



Technical data

Cable

3 m/s
10 m/s²
46 kg/km
PUR
PE
PP
Bare Cu litz wires
$\leq 78 \ \Omega/km$
≤ 300 V
≥ 3000 V
Flexible cable conduit capable
Silicone-free
Free of substances which would hinder coating with paint or varnish
Flexible
in accordance with DIN UL-Style 20549
in accordance with DIN VDE 0472 part 815
in accordance with DIN EN 60811-2-1
Highly resistant to acids, alkaline solutions and solvents
hydrolysis and microbe resistant
partly UV-resistant in accordance with DIN EN ISO 4892-2-A
Low adhesion
abrasion-resistant
-40 °C 80 °C (cable, fixed installation)
-25 °C 80 °C (cable, flexible installation)

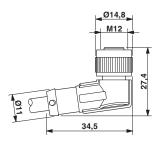
Drawings

Cable cross section



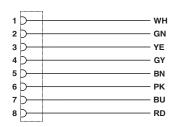
PUR halogen-free black [PUR]

Dimensional drawing





Circuit diagram



Classifications

eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27279218
eCl@ss 7.0	27279218
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

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