

PLUSCON-SAC

Shielded Sensor/Actuator Cables, Straight M 12 Socket with Free Conductor End

As automation increases, so does, of course, the need for electrical interference-free transmission of signals, such as digital and analog measured values. The signal levels are becoming increasingly small, and the paths that have to be bridged i.e. the conductor lengths to a certain extent increasingly longer. Electromagnetic disturbance that can occur around the transmission line makes it impossible to guarantee reliable reception of signals.

EMC-designed sensor/actuator cables considerably dampen these interfering signals, thus improving the transmission of signals. The shielded SAC cables increase system safety and availability. The cables with free conductor ends are supplied in various versions. 3, 4 and 5-position M 12 sockets can be supplied as straight versions. All versions fulfill the requirements of protection type IP 67.

The conductors have PATG 3/23 marker carriers and can be labeled with our cable marking system PABA.../23 (see CLIPLINE catalog).

Note:

The shield contacts the knurled screw / nut (see small picture). Other conductor lengths can be supplied on request.



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Technical data

Sensor/actuator cable, shielded	Cable length in [m]
straight M 12 socket, 3-pos. with free conductor end	1.5
	3.0
	5.0
	10.0
Sensor/actuator cable, shielded	Cable length in [m]
	1.5
	3.0
	5.0
Sensor/actuator cable, shielded	Cable length in [m]
	1.5
	3.0
	5.0
Sensor/actuator cable, shielded	Cable length in [m]
	1.5
	3.0
	5.0
Sensor/actuator cable, shielded	Cable length in [m]
	1.5
	3.0
	5.0

Type	Order No.	Pcs. Pkt.
SAC-3P-1,5-PUR/M12FS SH	16 82 78 6	1
SAC-3P-3,0-PUR/M12FS SH	16 82 79 9	1
SAC-3P-5,0-PUR/M12FS SH	16 82 80 9	1
SAC-3P-10,0-PUR/M12FS SH	15 00 68 0	1
SAC-4P-1,5-PUR/M12FS SH	16 82 84 1	1
SAC-4P-3,0-PUR/M12FS SH	16 82 85 4	1
SAC-4P-5,0-PUR/M12FS SH	16 82 86 7	1
SAC-4P-10,0-PUR/M12FS SH	15 00 71 6	1
SAC-5P-1,5-PUR/M12FS SH	16 82 93 5	1
SAC-5P-3,0-PUR/M12FS SH	16 82 94 8	1
SAC-5P-5,0-PUR/M12FS SH	16 82 95 1	1
SAC-5P-10,0-PUR/M12FS SH	15 00 75 8	1

Technical data

Nominal current	[A]	4
Rated voltage in acc. with DIN VDE 0110 (II/3)	[V]	320 (5-pos.: 160)
Contact resistance	[mΩ]	≤ 5
Ambient temperature cable: rigid / flexible installation	[°C]	- 30 to + 80 / - 5 to + 70
plug / cable	[°C]	- 25 to + 90

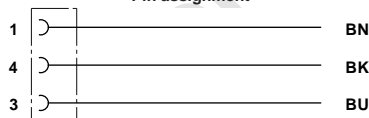
Number of positions

Core cross section (structure)	[mm ²]	0.34 (42 x 0.1)
External cable diameter	[mm]	5.2 / 5.9
Contact // contact surface		CuSn // Ni / Au
Protection type plugged (IEC 60 529 / EN 60 529 / DIN VDE 0470-1)		IP 67
Insulation material		TPU, hardly inflammable, self-extinguishing

M 12 socket

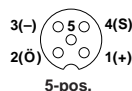


Pin assignment

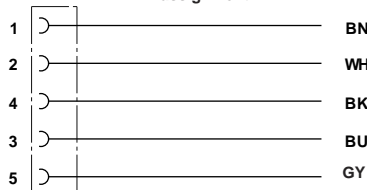


Contact assignment of M 12 sockets

M 12 socket

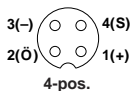


Pin assignment

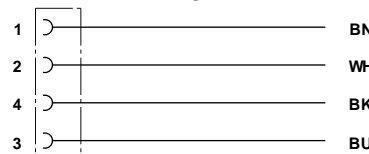


Contact assignment of M 12 sockets

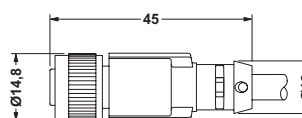
M 12 socket



Pin assignment



Contact assignment of M 12 sockets



M 12 x 1 socket, straight version

Color coding

BN	= Brown
BU	= Blue
BK	= Black
WH	= White
GY	= Gray

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Technical data

