



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Power cable - SAC-4P-MRT/ 3,0-PUR/FRT SH SCO - 1415203

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Power cable, 4-position, PUR halogen-free, shielded, Plug angled M12 SPEEDCON, T-coded, on Socket angled M12 SPEEDCON, T-coded, Cable length: 3 m, for direct current up to 12 A/60 V

Why buy this product

- Easy and safe: 100% electrically tested plug-in components
- High-performance: DC connectors for up to 12 A and 60 V DC
- Protection against incorrect connection using special T-coding
- Save time, thanks to installation with SPEEDCON fast locking system
- Shield power reliably – 360° shielding to reduce electromagnetic loads
- Our standard: robust halogen-free PUR cable



Key Commercial Data

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

Technical data

Environmental Product Compliance

REACH SVHC	DOTe 15571-58-1
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Dimensions

Length of cable	3 m
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Ambient conditions

Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
Degree of protection	IP65
	IP67

Power cable - SAC-4P-MRT/ 3,0-PUR/FRT SH SCO - 1415203

Technical data

General

Rated current at 40°C	12 A
Rated voltage	60 V
Number of positions	4
Insulation resistance	≥ 10 GΩ
Coding	T power
Status display	No
Protective circuit/component	Unwired
Overvoltage category	III
Degree of pollution	3
Insertion/withdrawal cycles	> 100

Material

Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated

Standards and Regulations

Flammability rating according to UL 94	V0
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Cable

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	LS9YC11Y-OB
Conductor cross section	4x 1.5 mm ²
AWG power supply	16
Core diameter including insulation	2.4 mm
Thickness, insulation	1.2 mm (Outer cable sheath)
Wire colors	brown, white, blue, black
Overall twist	4 wires optimally twisted
Shielding	Tinned copper-braided shield, approx. 85% covering
External sheath, color	black RAL 9005
External cable diameter D	9.7 mm ±0,3 mm
Smallest bending radius, fixed installation	49 mm
Smallest bending radius, movable installation	73 mm
Number of bending cycles	4000000
Bending radius	97 mm

Power cable - SAC-4P-MRT/ 3,0-PUR/FRT SH SCO - 1415203

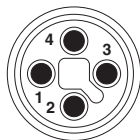
Technical data

Cable

Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s ²
Torsion force	± 25 °/m
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 10 MΩ*km (at 20 °C)
Conductor resistance	≤ 13.3 Ω/km (at 20 °C)
Nominal voltage, cable	300 V AC
Test voltage, cable	1500 V AC (5 min.)
Flame resistance	According to EN 60332-1-2
	in acc. to UL 1581 VW1
Halogen-free	According to VDE 0282-13 Appendix C
Resistance to oil	in accordance with DIN EN 60811-2-1
	According to DIN EN 50363-10-2
Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation)
	-30 °C ... 90 °C (cable, flexible installation)

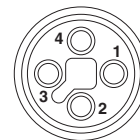
Drawings

Schematic diagram



Pin assignment for M12 plug, 4-pos., T-coded, view of plug side

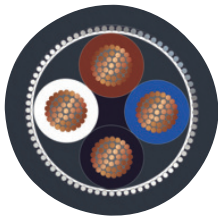
Schematic diagram



Pin assignment of M12 socket, 4-pos., T-coded, socket side view

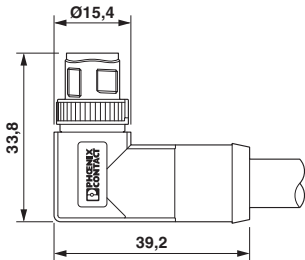
Power cable - SAC-4P-MRT/ 3,0-PUR/FRT SH SCO - 1415203

Cable cross section



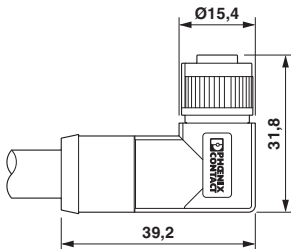
PUR halogen-free black [PUR]

Dimensional drawing



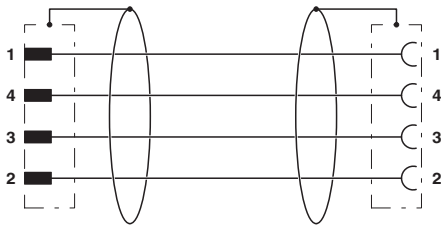
M12 x 1 male plug, angled

Dimensional drawing



M12 x 1 socket, angled

Circuit diagram



Contact assignment of M12 connector/socket

Classifications

eCl@ss

eCl@ss 5.1	27143423
eCl@ss 6.0	27143423
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

ETIM

ETIM 5.0	EC001855
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Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Power cable - SAC-4P-MRT/ 3,0-PUR/FRT SH SCO - 1415203

Approvals

Ex Approvals

Approvals submitted

Approval details

UL Listed	
mm²/AWG/kcmil	16
Nominal current IN	12 A
Nominal voltage UN	63 V

cUL Listed	
mm²/AWG/kcmil	16
Nominal current IN	12 A
Nominal voltage UN	63 V

cULus Listed 
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