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## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: [info@chipsmall.com](mailto:info@chipsmall.com) Web: [www.chipsmall.com](http://www.chipsmall.com)

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

## Network cable - NBC-MSD/ 0,5-93E/MSD SCO US - 1408732

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Network cable, Ethernet, 4-position, PUR halogen-free, water blue RAL 5021, shielded, Plug Straight M12 SPEEDCON / IP67, Coding: D, on Plug Straight M12 SPEEDCON / IP67, Coding: D, Cable length: 0.5 m



### Key commercial data

Packing unit	1 PCE
GTIN	 4 046356 828727
Custom tariff number	85444210
Country of origin	UNITED STATES

### Technical data

#### Dimensions

Length of cable	0.5 m
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#### General data

Rated current at 40°C	4 A
Rated voltage	250 V
Number of positions	4
Signal type/category	Ethernet CAT5 (IEC 11801:2002)
Signal type/category	Ethernet CAT5e (TIA 568B:2001)
Standards/regulations	M12 plug-in connector IEC 61076-2-101
Degree of protection	IP65
Degree of protection	IP67

#### Characteristics head 1

Head design	Plug Straight M12 SPEEDCON / IP67
Coding	D (Data)

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## Technical data

### Characteristics head 2

Head design	Plug Straight M12 SPEEDCON / IP67
Coding	D (Data)

### Line characteristics

Cable type	Ethernet
Cable type (abbreviation)	93E
UL AWM style	20963 (80°C/30 V)
Signal type/category	Ethernet CAT5 (IEC 11801:2002)
Signal type/category	Ethernet CAT5e (TIA 568B:2001)
Cable structure	2x2xAWG26/7; SF/UTP
Conductor cross section	2x 2x 0.14 mm <sup>2</sup>
AWG signal line	26
Conductor structure signal line	7x 0.16 mm
Core diameter including insulation	0.98 mm
Wire colors	white/orange-orange, white/green-green
Twisted pairs	2 cores to the pair
Overall twist	Two pairs with two fillers to the core
Shielding	Aluminum-coated foil, tinned copper braided shield
Optical shield covering	70 %
External sheath, color	water blue RAL 5021
External cable diameter D	6.4 mm ± 0.2 mm
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Tensile strength short-term/long-term	≤ 80N
Cable weight	42 kg/km
Outer sheath, material	PUR
Material conductor insulation	Foamed PE
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 500 MΩ*km (at 20 °C)
Conductor resistance	≤ 290 Ω/km (at 20 °C)
Working capacitance	45 nF (At 1 kHz)
Wave impedance	100 Ω ± 5 Ω (At 100 MHz)
Signal runtime	5.3 ns/m
Nominal voltage, cable	≤ 100 V
Nominal voltage, cable	300 V (Outer cable sheath)
Test voltage Core/Core	700 V (50 Hz, 1 min.)
Test voltage Core/Shield	700 V (50 Hz, 1 min.)
Flame resistance	IEC 60332-1-2

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### Technical data

#### Line characteristics

Halogen-free	According to IEC 60754-1
Resistance to oil	in accordance with DIN EN 60811-2-1
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
Ambient temperature (operation)	-20 °C ... 80 °C (cable, flexible installation)
Ambient temperature (installation)	-20 °C ... 80 °C
Ambient temperature (storage/transport)	-20 °C ... 80 °C

### 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	27061801
eCl@ss 7.0	27060308

#### ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC002599
ETIM 5.0	EC002599

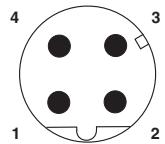
#### UNSPSC

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

### Drawings

## Network cable - NBC-MSD/ 0,5-93E/MSD SCO US - 1408732

Schematic diagram



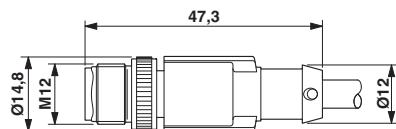
Pin assignment M12 male connector, 4-pos., D-coded, male side

Cable cross section



Ethernet [93E]

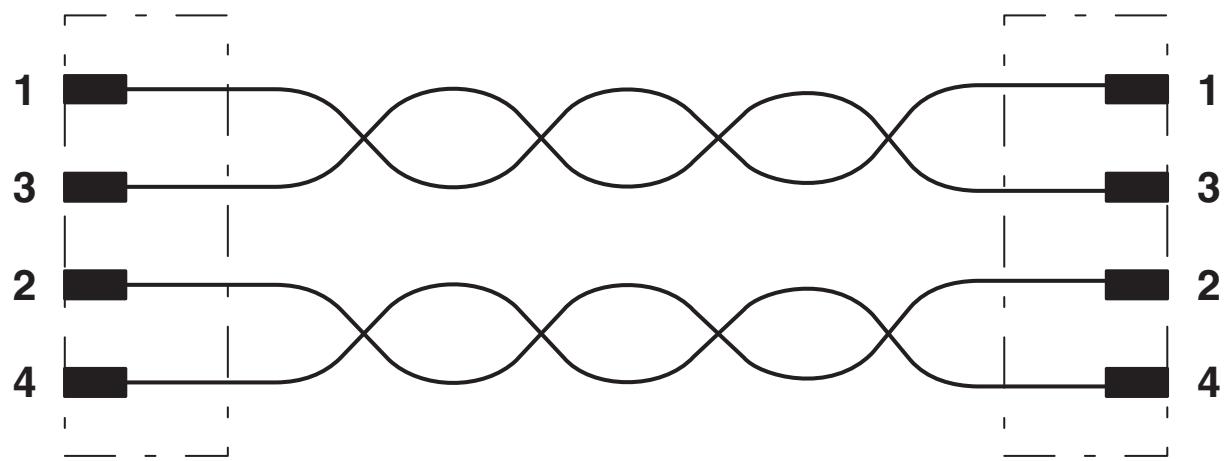
Dimensioned drawing



Plug, M12 x 1, straight, shielded

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## Circuit diagram



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