Chipsmall

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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!

Contact us

PHŒNIX CONTACT

Network cable - NBC-MS/ 0,5-94B/R4AC SCO US - 1408749

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Network cable, Ethernet, 8-position, PUR halogen-free, water blue RAL 5021, shielded, Plug Straight M12 SPEEDCON / IP67, Coding: A, on Plug Straight RJ45 / IP20, Cable length: 0.5 m

Ethernet **SPEEDCON LOCKING**

Key commercial data

Packing unit	1 PCE
GTIN	4 046356 828574
Custom tariff number	85444210
Country of origin	GERMANY

Technical data

Dimensions

Length of cable	0.5 m

General data

Rated current at 40°C	1 A
Rated voltage	30 V
Number of positions	8
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 (M12 plug-in connector)
Degree of protection	IP67 (M12 plug-in connector)
Degree of protection	IP20 (RJ45 plug-in connector)

Characteristics head 1

Head design	Plug Straight M12 SPEEDCON / IP67

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Technical data

Characteristics head 1

Coding	A (Standard)

Characteristics head 2

Head design	Plug Straight RJ45 / IP20

Line characteristics

Cable type	Ethernet
Cable type (abbreviation)	94B
UL AWM style	20963 (80 °C / 60 V)
Signal type/category	Ethernet CAT5 (IEC 11801:2002)
Signal type/category	Ethernet CAT5e (TIA 568B:2001)
Cable structure	4x2xAWG26/7; SF/UTP
Conductor cross section	4x 2x 0.14 mm²
AWG signal line	26
Conductor structure signal line	7x 0.16 mm
Core diameter including insulation	0.98 mm
Thickness, insulation	0.25 mm (signal line)
Thickness, insulation	1 mm (Outer cable sheath)
Wire colors	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Twisted pairs	2 cores to the pair
Overall twist	4 pairs
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
Smallest bending radius, fixed installation	25.6 mm
Smallest bending radius, movable installation	51.2 mm
Tensile strength short-term/long-term	$\leq$ 100 N
Cable weight	47 kg/km
Outer sheath, material	PUR
Material conductor insulation	PE
Conductor material	Bare Cu litz wires
Insulation resistance	$\geq$ 500 MΩ*km (at 20 °C)
Conductor resistance	$\leq$ 290 Ω/km (at 20 °C)
Working capacitance	48 nF (At 1 kHz)
Wave impedance	100 Ω ± 5 Ω (At 100 MHz)
Signal runtime	5.3 ns/m
Coupling resistance	$\leq$ 100.00 mΩ/m (At 10 MHz)

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Technical data

Line characteristics

Nominal voltage, cabel	≤ 100 V (at 20 °C)
Nominal voltage, cabel	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
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

ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC002599
ETIM 5.0	EC002599

UNSPSC

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

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

Drawings

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Network cable - NBC-MS/ 0,5-94B/R4AC SCO US - 1408749

Schematic diagram

8 7 6 5 4 3 2 1

Connector pin assignment plug RJ45

Schematic diagram

5
6   4
7   8   3
1   2
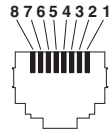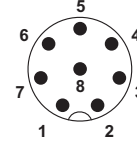
Pin assignment M12 plug, 8-pos., A-coded, view plug side

Cable cross section

Ethernet [94B]

Dimensioned drawing

47,3

Ø14,8 M12   Ø12
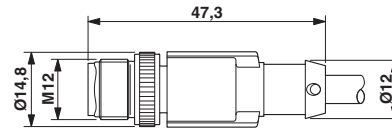
Plug, M12 x 1, straight, shielded

Dimensioned drawing

44,65   13,4
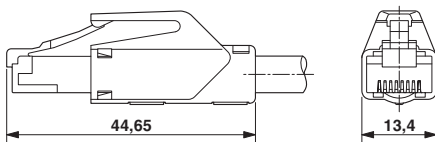
RJ45 plug-in connector, IP20

Circuit diagram

M12		RJ45	
6		1	WH-OG
4		2	OG
5		3	WH-GN
8		6	GN
1		5	WH-BU
7		4	BU
2		7	WH-BN
3		8	BN
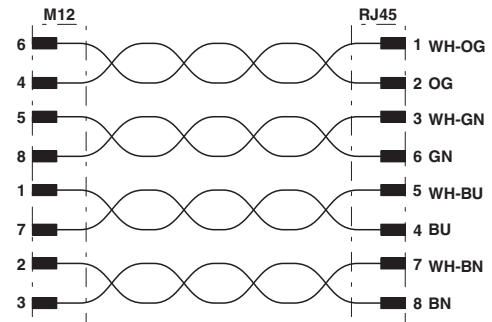
Contact assignment of the M12 and RJ45 plug