

VS-IP67-IP67-94C-LI/10,0 - Network cable



1413146

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Assembled Ethernet cable, shielded, 4-pair, AWG 26 flexible cable conduit capable (19-wire), RAL 5021 (sea blue), RJ45 connector/IP67 gray to RJ45 connector/IP67, gray, line, length 10 m

Commercial data

Item number	1413146
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB11
Product key	ABNABM
GTIN	4046356475761
Weight per piece (including packing)	606.8 g
Weight per piece (excluding packing)	592.922 g
Customs tariff number	85444210
Country of origin	PL

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Technical data

Product properties

Product type	Data cable preassembled
Product family	RJ45 BASIC IE8 CAT5
Application	Standard
Sensor type	Ethernet
Number of positions	8
Shielded	yes

Electrical properties

Transmission speed	1 Gbps
Transmission characteristics (category)	CAT5
Transmission speed	1 Gbps
Wave impedance	100 Ω

Material specifications

Outer sheath, material	PUR
Conductor material	Bare Cu litz wires

Connector

Connection 1

Type	RJ45 Plug, straight, 8-position, Locking clips
Number of positions	8
Signal type/category	Ethernet CAT5 (IEC 11801:2002), 100 Mbps
Insertion/withdrawal cycles	≥ 750
Degree of pollution	2
Material Housing	Plastic
Color (Housing)	gray
Flammability rating according to UL 94	V2
Degree of protection	IP67
Ambient temperature (operation)	0 °C ... 70 °C

Connection 2

Type	RJ45 Plug, straight, 8-position, Locking clips
Number of positions	8
Signal type/category	Ethernet CAT5 (IEC 11801:2002), 100 Mbps
Insertion/withdrawal cycles	≥ 750
Degree of pollution	2
Material Housing	Plastic
Color (Housing)	gray
Flammability rating according to UL 94	V2
Degree of protection	IP67

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Ambient temperature (operation)

0 °C ... 70 °C

Cable/line

Cable length

10.00 m

Ethernet drag chain CAT5, 4-pair [94C]

Dimensional drawing



Cable weight

57 kg/km

UL AWM Style

20963 (80°C/30 V)

Number of positions

8

Shielded

yes

Cable type

Ethernet drag chain CAT5, 4-pair [94C]

Conductor structure

4x2xAWG26/19, S/UTP

Signal runtime

5.3 ns/m

Conductor structure signal line

19x 0.10 mm

AWG signal line

26

Conductor cross section

4x 2x 0.14 mm²

Wire diameter incl. insulation

1 mm

External cable diameter

6.90 mm +0.1 mm ... 0.2 mm

Outer sheath, material

PUR

External sheath, color

water blue RAL 5021

Conductor material

Bare Cu litz wires

Material wire insulation

PP

Single wire, color

white/blue-blue, white/orange-orange, white/green-green, white/brown-brown

Thickness, outer sheath

0.85 mm

Twisted pairs

2 cores to the pair

Overall twist

Four pairs and four fillers to the core

Optical shield covering

90 %

Insulation resistance

≥ 500 MΩ*km

Coupling resistance

≤ 100.00 mΩ/m (at 10 MHz)

Loop resistance

≤ 290.00 Ω/km

Wave impedance

100 Ω ±5 Ω (at 100 MHz)

Cable capacity

approx. 50 nF/km (at 1 kHz)

Nominal voltage, cable

≤ 100 V

Test voltage Core/Core

700 V (50 Hz, 1 min.)

Test voltage Core/Shield

700.00 V (50 Hz, 1 min.)

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Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Smallest bending radius, fixed installation	28 mm
Smallest bending radius, movable installation	56 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000000, Bending radius: 7,5 x D, Traversing rate: 3 m/s, Acceleration: 5 m/s²
Tensile strength	≤ 100 N
Near end crosstalk attenuation (NEXT)	65.3 dB (with 1 MHz)
	56.3 dB (at 4 MHz)
	50.3 dB (at 10 MHz)
	47.2 dB (at 16 MHz)
	45.8 dB (at 20 MHz)
	42.9 dB (at 31.25 MHz)
	38.4 dB (at 62.5 MHz)
	35.3 dB (at 100 MHz)
Power-summated near end crosstalk attenuation (PSNEXT)	62.3 dB (with 1 MHz)
	53.3 dB (at 4 MHz)
	47.3 dB (at 10 MHz)
	44.2 dB (at 16 MHz)
	42.8 dB (at 20 MHz)
	39.9 dB (at 31.25 MHz)
	35.4 dB (at 62.5 MHz)
	32.3 dB (at 100 MHz)
Return attenuation (RL)	23 dB (at 4 MHz)
	24.1 dB (at 8 MHz)
	25 dB (at 10 MHz)
	25 dB (at 16 MHz)
	25 dB (at 20 MHz)
	23.6 dB (at 31.25 MHz)
	21.5 dB (at 62.5 MHz)
	20.1 dB (at 100 MHz)
Shield attenuation	3.2 dB (with 1 MHz)
	6 dB (at 4 MHz)
	9.5 dB (at 10 MHz)
	12.1 dB (at 16 MHz)
	13.6 dB (at 20 MHz)
	17.1 dB (at 31.25 MHz)
	24.8 dB (at 62.5 MHz)
	32 dB (at 100 MHz)
Halogen-free	according to IEC 60754-1
Flame resistance	according to IEC 60332-1-2
Resistance to oil	in accordance with EN 60811-2-1
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-20 °C ... 80 °C (Cable, flexible installation)

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Ambient temperature (installation)	-20 °C ... 80 °C
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Drawings

Circuit diagram



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Approvals

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EAC

Approval ID: 19060508

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Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

ETIM

ETIM 9.0	EC001855
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UNSPSC

UNSPSC 21.0	26121600
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)
SCIP	664b5642-5d17-4d99-a599-275d0e8b5b88

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