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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

Bus system cable - VS-IP20/10G-IP20/10G-94F/5 - 1418879

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Patch cable, CAT6$_A$, 4-pair, shielded, connection not crossed (Line), assembled at both ends with RJ45/IP20 connectors; outer sheath material: PUR; length: 5 m

Ethernet

Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	231.0 GRM
Custom tariff number	85444210
Country of origin	Germany

Technical data

Mechanical characteristics

Number of positions	8
Shielded	Yes
Insertion/withdrawal cycles	200
Cable diameter	6.70 mm
Cable structure	4x2xAWG26/7; S/FTP
Length of cable	5 m

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C (RJ45 connector)
Degree of protection	IP20

Material data

Outer sheath, material	PUR
External sheath, color	water blue RAL 5021

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Technical data

Electrical characteristics

Transmission characteristics (category)	CAT6$_A$

Line characteristics

Cable type	Ethernet 10 Gbit
UL AWM style	20963 (80°C/30 V)
Cable structure	4x2xAWG26/7; S/FTP
Conductor cross section	4x 2x 0.14 mm²
AWG signal line	26
Conductor structure signal line	7x 0.16 mm
Core diameter including insulation	1.04 mm
Thickness, insulation	0.28 mm (signal line)
External cable diameter	6.4 mm ±0.2 mm
Wire colors	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
External sheath, color	water blue RAL 5021
Transmission medium	Copper
Insulation resistance	$\geq$ 500 MΩ*km
Wave impedance	100 Ω ±5 Ω (at 100 MHz)
Signal runtime	5.13 ns/m
Shield attenuation	$\geq$ 80 dB (at 30 ... 100 MHz)
Nominal voltage, cable	$\leq$ 100 V (at 20 °C)
Test voltage Core/Core	700 V (50 Hz, 1 min.)
Test voltage Core/Shield	700 V (50 Hz, 1 min.)
Twisted pairs	2 cores to the pair
Type of pair shielding	Aluminum-lined foil
Overall twist	4 pairs
Shielding	Tinned copper braided shield
Optical shield covering	70 %
Outer sheath, material	PUR
Material conductor insulation	PE
Conductor material	Bare Cu litz wires
Cable weight	42 kg/km
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Tensile strength short-term/long-term	$\leq$ 100 N
Flame resistance	IEC 60332-1-2
Halogen-free	According to IEC 60754-1
Resistance to oil	in accordance with DIN EN 60811-2-1

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Technical data

Line characteristics

Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-20 °C ... 80 °C (cable, flexible installation)

Classifications

eCl@ss

eCl@ss 4.0	27060307
eCl@ss 4.1	27060307
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27061801

ETIM

ETIM 2.0	EC000830
ETIM 3.0	EC000830
ETIM 4.0	EC002599
ETIM 5.0	EC000830

UNSPSC

UNSPSC 6.01	26121616
UNSPSC 7.0901	26121616
UNSPSC 11	26121604
UNSPSC 12.01	26121616
UNSPSC 13.2	26121616

Drawings

Schematic diagram

8 7 6 5 4 3 2 1
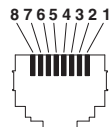
Connector pin assignment plug RJ45

Cable cross section

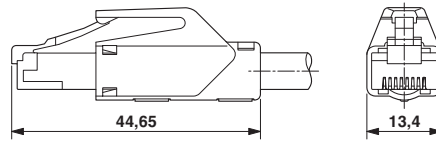Ethernet 10 Gbit [94F]

Bus system cable - VS-IP20/10G-IP20/10G-94F/5 - 1418879

Dimensioned drawing

44,65　　　**13,4**

RJ45 connector, IP20