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Assembled USB cable, shielded, color: RAL 5021 (water blue), PUR outer sheath, USB type A/IP67 on USB type B/IP67, length: 2 m



Key Commercial Data

Packing unit	1 STK
GTIN	4 017918 970208
GTIN	4017918970208
Weight per Piece (excluding packing)	184.000 g
Custom tariff number	85444290
Country of origin	Germany

Technical data

Dimensions

Length of cable	2 m

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-20 °C 60 °C (cable, fixed installation)

General data

Number of positions	4
Signal type/category	USB 2.0
Degree of pollution	2
	2
Alternative short product description	USB cable



Technical data

General data

Rated voltage (III/3)	125 V
3 4 4 7	

Characteristics head 1

Head type	Plug straight USB type A
No. of positions (pin connector pattern)	4

Characteristics head 2

Head type	Plug straight USB type B
No. of positions (pin connector pattern)	4

Cable

Cable type FireWire Cable type (abbreviation) 980 Signal type/category USB CAT7, 480 Mbps Cable structure 2x2xAWG26/7 + 2xAWG20/19; S/FTP Conductor cross section 2x 2x 0.14 mm² (Signal line) AWG signal line 2x 0.5 mm² (Power supply) AWG power supply 20 Conductor structure signal line 7x 0.15 mm Conductor structure, voltage supply 19x 0.20 mm Core diameter including insulation ≤ 1.05 mm (Signal line) Write colors White-blue, white-orange, white, black Twisted pairs 2 cores to the pair Type of pair shielding Aluminum-lined polyester foil Overall twist Two pairs and two power supply wires to the core Shielding Tinned copper braided shield External sheath, color water blue RAL 5021 External cable diameter D 6.7 mm Minimum bending radius, fixed installation 5 x D Imminum bending radius, fixed installation 5 x D Tensile strength short-term/long-term ≤ 30 N Cable weight Cell PE (Signal line) Over (Power	- Cubic	
Signal type/category USB CAT7, 480 Mbps Cable structure 2x2xAWG26/7 + 2xAWG20/19; S/FTP Conductor cross section 2x 2x 0.14 mm² (Signal line) AWG signal line 2x 0.5 mm² (Power supply) AWG signal line 26 AWG power supply 20 Conductor structure signal line 7x 0.15 mm Conductor structure, voltage supply 19x 0.20 mm Core diameter including insulation < 1.05 mm (Signal line)	Cable type	FireWire
FireWire CAT7, 400 Mbps Cable structure 2x2xAWG26/7 + 2xAWG20/19; S/FTP Conductor cross section 2x 2x 0.14 mm² (Signal line) 2x 0.5 mm² (Power supply) AWG signal line 26 AWG power supply 20 Conductor structure signal line 7x 0.15 mm Conductor structure, voltage supply 19x 0.20 mm Core diameter including insulation 7x 0.15 mm (Signal line) 7x 0.20 mm Core diameter including insulation 8x 1.05 mm (Signal line) 7x 0.15 mm (Signal line) 7x 0.20 mm Core diameter including insulation 8x 1.4 mm (Power supply) Wire colors White-blue, white-orange, white, black Twisted pairs 2 cores to the pair Type of pair shielding Aluminum-lined polyester foil Overall twist Two pairs and two power supply wires to the core Shielding Tinned copper braided shield External sheath, color External sheath, color water blue RAL 5021 External cable diameter D 6.7 mm Minimum bending radius, fixed installation 5 x D Tensile strength short-term/long-term 30 N Cable weight 59 kg/km Outer sheath, material PUR Material conductor insulation Cell PE (Signal line) PVC (Power supply)	Cable type (abbreviation)	980
Cable structure 2x2xAWG26/7 + 2xAWG20/19; S/FTP Conductor cross section 2x 2x 0.14 mm² (Signal line) AWG signal line 26 AWG power supply 20 Conductor structure signal line 7x 0.15 mm Conductor structure, voltage supply 19x 0.20 mm Core diameter including insulation < 1.05 mm (Signal line)	Signal type/category	USB CAT7, 480 Mbps
Conductor cross section 2x 2x 0.14 mm² (Signal line) 2x 0.5 mm² (Power supply) AWG signal line 26 AWG power supply 20 Conductor structure signal line 7x 0.15 mm Conductor structure, voltage supply 19x 0.20 mm Core diameter including insulation ≤ 1.05 mm (Signal line) Mire colors White-blue, white-orange, white, black Wire colors White-blue, white-orange, white, black Twisted pairs 2 cores to the pair Type of pair shielding Aluminum-lined polyester foil Overall twist Two pairs and two power supply wires to the core Shielding Tinned copper braided shield External sheath, color water blue RAL 5021 External cable diameter D 6.7 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 5 x D Tensile strength short-term/long-term ≤ 30 N Cable weight 59 kg/km Outer sheath, material PUR Material conductor insulation Cell PE (Signal line) PVC (Power supply)		FireWire CAT7, 400 Mbps
2x 0.5 mm² (Power supply) AWG signal line 26 AWG power supply 20 Conductor structure signal line 7x 0.15 mm Conductor structure, voltage supply 19x 0.20 mm Core diameter including insulation 21.05 mm (Signal line) nom. 1.4 mm (Power supply) Wire colors White-blue, white-orange, white, black Twisted pairs 2 cores to the pair Type of pair shielding Verall twist Two pairs and two power supply wires to the core Thielding External sheath, color External sabel diameter D 6.7 mm Minimum bending radius, fixed installation 5 x D Tensile strength short-term/long-term Call PE (Signal line) PVC (Power supply)	Cable structure	2x2xAWG26/7 + 2xAWG20/19; S/FTP
AWG signal line 26 AWG power supply 20 Conductor structure signal line 7x 0.15 mm Conductor structure, voltage supply 19x 0.20 mm Core diameter including insulation ≤1.05 mm (Signal line) nom. 1.4 mm (Power supply) Wire colors White-blue, white-orange, white, black Twisted pairs 2 cores to the pair Type of pair shielding Aluminum-lined polyester foil Overall twist Two pairs and two power supply wires to the core Shielding Tinned copper braided shield External sheath, color water blue RAL 5021 External cable diameter D 6.7 mm Minimum bending radius, fixed installation 5x D Minimum bending radius, flexible installation 5x D Tensile strength short-term/long-term ≤30 N Cable weight 59 kg/km Outer sheath, material PUC Material conductor insulation Cell PE (Signal line) PVC (Power supply)	Conductor cross section	2x 2x 0.14 mm² (Signal line)
AWG power supply 20 Conductor structure signal line 7x 0.15 mm Conductor structure, voltage supply 19x 0.20 mm Core diameter including insulation ≤ 1.05 mm (Signal line) White-blue, white-orange, white, black Twisted pairs 2 cores to the pair Type of pair shielding Aluminum-lined polyester foil Overall twist Two pairs and two power supply wires to the core Shielding Tinned copper braided shield External sheath, color water blue RAL 5021 External cable diameter D 6.7 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 5 x D Tensile strength short-term/long-term ≤ 30 N Cable weight 59 kg/km Outer sheath, material PUR Material conductor insulation Cell PE (Signal line) PVC (Power supply)		2x 0.5 mm² (Power supply)
Conductor structure signal line Conductor structure, voltage supply 19x 0.20 mm Core diameter including insulation Nire colors White-blue, white-orange, white, black Twisted pairs Type of pair shielding Overall twist Two pairs and two power supply wires to the core Shielding External sheath, color External cable diameter D Minimum bending radius, fixed installation Six D Minimum bending radius, flexible installation Cable weight Outer sheath, material Material conductor insulation Cell PE (Signal line) PVC (Power supply)	AWG signal line	26
Conductor structure, voltage supply Core diameter including insulation ≤ 1.05 mm (Signal line) nom. 1.4 mm (Power supply) Wire colors White-blue, white-orange, white, black Twisted pairs Z cores to the pair Type of pair shielding Overall twist Two pairs and two power supply wires to the core Shielding Tinned copper braided shield External sheath, color External cable diameter D Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 5 x D Tensile strength short-term/long-term ≤ 30 N Cable weight Outer sheath, material Material conductor insulation Cell PE (Signal line) PVC (Power supply)	AWG power supply	20
Core diameter including insulation ≤ 1.05 mm (Signal line) nom. 1.4 mm (Power supply) Wire colors White-blue, white-orange, white, black Twisted pairs 2 cores to the pair Type of pair shielding Aluminum-lined polyester foil Overall twist Two pairs and two power supply wires to the core Shielding Tinned copper braided shield External sheath, color water blue RAL 5021 External cable diameter D 6.7 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 5 x D Tensile strength short-term/long-term ≤ 30 N Cable weight Outer sheath, material PUR Material conductor insulation Cell PE (Signal line) PVC (Power supply)	Conductor structure signal line	7x 0.15 mm
mom. 1.4 mm (Power supply) Wire colors White-blue, white-orange, white, black Twisted pairs 2 cores to the pair Type of pair shielding Aluminum-lined polyester foil Overall twist Two pairs and two power supply wires to the core Shielding Tinned copper braided shield External sheath, color water blue RAL 5021 External cable diameter D 6.7 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 5 x D Tensile strength short-term/long-term ≤ 30 N Cable weight Outer sheath, material Material conductor insulation Cell PE (Signal line) PVC (Power supply)	Conductor structure, voltage supply	19x 0.20 mm
Wire colors White-blue, white-orange, white, black Twisted pairs 2 cores to the pair Type of pair shielding Aluminum-lined polyester foil Overall twist Two pairs and two power supply wires to the core Shielding Tinned copper braided shield External sheath, color water blue RAL 5021 External cable diameter D 6.7 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 5 x D Tensile strength short-term/long-term ≤ 30 N Cable weight 59 kg/km Outer sheath, material PUR Material conductor insulation Cell PE (Signal line) PVC (Power supply)	Core diameter including insulation	≤ 1.05 mm (Signal line)
Twisted pairs 2 cores to the pair Type of pair shielding Aluminum-lined polyester foil Overall twist Two pairs and two power supply wires to the core Shielding Tinned copper braided shield External sheath, color External cable diameter D 6.7 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 5 x D Tensile strength short-term/long-term ≤ 30 N Cable weight Outer sheath, material Material conductor insulation Cell PE (Signal line) PVC (Power supply)		nom. 1.4 mm (Power supply)
Type of pair shielding Overall twist Two pairs and two power supply wires to the core Shielding Tinned copper braided shield External sheath, color External cable diameter D Minimum bending radius, fixed installation S x D Minimum bending radius, flexible installation 5 x D Tensile strength short-term/long-term ≤ 30 N Cable weight Outer sheath, material Material conductor insulation Cell PE (Signal line) PVC (Power supply)	Wire colors	White-blue, white-orange, white, black
Overall twist Two pairs and two power supply wires to the core Shielding Tinned copper braided shield External sheath, color water blue RAL 5021 External cable diameter D 6.7 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 5 x D Tensile strength short-term/long-term ≤ 30 N Cable weight 59 kg/km Outer sheath, material PUR Material conductor insulation Cell PE (Signal line) PVC (Power supply)	Twisted pairs	2 cores to the pair
Shielding Tinned copper braided shield External sheath, color water blue RAL 5021 External cable diameter D 6.7 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 5 x D Tensile strength short-term/long-term ≤ 30 N Cable weight 59 kg/km Outer sheath, material PUR Material conductor insulation Cell PE (Signal line) PVC (Power supply)	Type of pair shielding	Aluminum-lined polyester foil
External sheath, color water blue RAL 5021 External cable diameter D 6.7 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 5 x D Tensile strength short-term/long-term ≤ 30 N Cable weight 59 kg/km Outer sheath, material PUR Material conductor insulation Cell PE (Signal line) PVC (Power supply)	Overall twist	Two pairs and two power supply wires to the core
External cable diameter D 6.7 mm Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 5 x D Tensile strength short-term/long-term ≤ 30 N Cable weight 0uter sheath, material PUR Material conductor insulation Cell PE (Signal line) PVC (Power supply)	Shielding	Tinned copper braided shield
Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 5 x D Tensile strength short-term/long-term ≤ 30 N Cable weight 59 kg/km Outer sheath, material PUR Material conductor insulation Cell PE (Signal line) PVC (Power supply)	External sheath, color	water blue RAL 5021
Minimum bending radius, flexible installation 5 x D Tensile strength short-term/long-term ≤ 30 N Cable weight 59 kg/km Outer sheath, material PUR Material conductor insulation Cell PE (Signal line) PVC (Power supply)	External cable diameter D	6.7 mm
Tensile strength short-term/long-term ≤ 30 N Cable weight 59 kg/km Outer sheath, material PUR Material conductor insulation Cell PE (Signal line) PVC (Power supply)	Minimum bending radius, fixed installation	5 x D
Cable weight 59 kg/km Outer sheath, material PUR Material conductor insulation Cell PE (Signal line) PVC (Power supply)	Minimum bending radius, flexible installation	5 x D
Outer sheath, material PUR Material conductor insulation Cell PE (Signal line) PVC (Power supply)	Tensile strength short-term/long-term	≤ 30 N
Material conductor insulation Cell PE (Signal line) PVC (Power supply)	Cable weight	59 kg/km
PVC (Power supply)	Outer sheath, material	PUR
· · · · · · · · · · · · · · · · · · ·	Material conductor insulation	Cell PE (Signal line)
Conductor material Bare Cu litz wires		PVC (Power supply)
	Conductor material	Bare Cu litz wires



Technical data

Cable

Insulation resistance	5 GΩ*km
Conductor resistance	150 Ω/km
Working capacitance	42 pF (per meter)
Wave impedance	100 Ω ±5 % (at 100 MHz)
Signal speed	0.72 c
Signal runtime	4.6 ns/m
Shield attenuation	60 dB (Up to 1000 MHz)
Interference suppression	90 dB (Up to 1000 MHz)
Coupling resistance	5.00 mΩ/m (At 10 MHz)
Nominal voltage, cable	≤ 125 V
Test voltage, cable	1000 V
Special properties	Free of substances which would hinder coating with paint or varnish
Flame resistance	complying with IEC 60332-2-2
Resistance to oil	according to EN 60811-2-1
Other resistance	Microbe resistance as per DIN VDE 0282
	Hydrolysis resistance as per DIN 53504
Ambient temperature (operation)	-40 °C 70 °C (cable, fixed installation)
	-10 °C 50 °C (cable, flexible installation)

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Schematic diagram

Schematic diagram



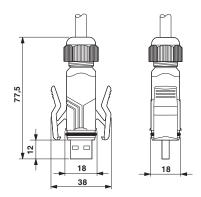


Pin assignment plug USB, type A

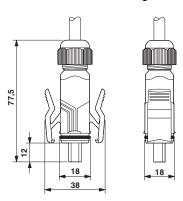
Plug pin assignment plug USB, type B



Dimensional drawing



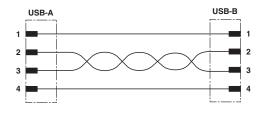
Dimensional drawing



USB connector, type A, IP67

USB connector, type B, IP67

Circuit diagram



Classifications

eCl@ss

eCl@ss 4.0	27140816
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27260701
eCl@ss 6.0	27279218
eCl@ss 7.0	27060390
eCl@ss 8.0	27060390
eCl@ss 9.0	27060390

ETIM

ETIM 2.0	EC000830
ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001408



Classifications

UNSPSC

UNSPSC 6.01	31261501
UNSPSC 7.0901	31261501
UNSPSC 11	31261501
UNSPSC 12.01	31261501
UNSPSC 13.2	26121604

Approvals

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Approvals

EAC

Ex Approvals

Approval details

EAC

EAE

B.00767

Accessories

Accessories

Protective cover

Protective covers - VS-SCRJ-PC - 1653757



IP67 protective cover, for covering the male inserts in the sleeve housings IP67, VS-SC-RJ-..., VS-04-..., VS-06-... and VS-08-...

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