

USB3.2 GEN1 CABLE AND CORDSET



Description

This USB3.2 Gen1 cable is specifically designed for fixed or deployable military or industrial applications. Can be ordered as cordset with USB-A at both end or as reel of 300m to be used for cabling activity. Its special polyurethane can withstand the harshest environment.

Design

USB3.2 2 X Data Pair	Conductors	2 x 28 AWG Stranded tinned copper wire (Ø0,39mm)
	Insulation	Polyethylene (Ø1,0mm)
	Colors	Pair 1: Purple and orange Pair 2: Blue and yellow
	Drain	2 x 28 AWG Stranded tinned copper drain wire (Ø0,39mm)
	Shield	Aluminate foil and plastic tape overlapped
USB2.0 1 X Data Pair	Conductors	2 x 28 AWG Stranded tinned copper wire (Ø0,39mm)
	Insulation	Polyethylene (Ø0,73mm)
	Colors	Green and White
Power 1 X Power Pair	Conductors	2 x 24 AWG Stranded tinned copper wire (Ø0,6mm)
	Insulation	Polyethylene (Ø1,1mm)
	Colors	Red and Black
Overall		Fillers, Aluminate foil overlapped and 36 AWG shield braiding of tinned copper wires
Jacket	Insulation	Polyurethane (Ø5,7±0,2mm)
	Color	Black

Electrical characteristics at 20°C

USB3.2 Gen1 2 X Data Pair	Test voltage	500 V	
	Impedance	90±7% Ohm	
	Attenuation (dB/100m)	625 MHz - 10	5 000 MHz - 36
		1 250 MHz - 15	7 500 MHz - 47
		2 500 MHz - 25	
Outer screen resistance	≤ 15 Ohm/km		
USB2.0 1 X Data Pair	Test voltage	500 V	
	Impedance	90±15% Ohm	
	Attenuation (dB/100m)	1 MHz - 4,0	48 MHz - 27,0
		4 MHz - 7,8	96 MHz - 38,0
		8 MHz - 11,4	200 MHz - 64,0
		12 MHz - 13,4	400 MHz - 116,0
		24 MHz - 19,0	
Power Wire	Conductor resistance	≤ 85 Ohm/km	
	Insulation resistance	≥ 200 MOhm*km	
	Operating voltage	≤ 1 000 V	
	Test voltage	500 V	

Other characteristics

Halogen Free Flame Retardant	Resistance to microbial/fungus growth: MIL-STD-810G, method 508.6 = grade 1-2
Oil resistance acc. to 1584, sec. 480 (60°)	Min. bending radius allowed: repeated 10 X Ø single 5 X Ø
Flame retardant acc. to UL 1581, sec. 1090 (H)	Permissible temperature range for transport, installation and operating: -40°C up to 85°C
Flame retardant acc. to IEC 60332-1-2	
RoHS compliant (Directive 2011/65/EC)	Weight: 46 kg/km

How to order : Please refer from page 126

USB2.0 CABLE AND CORDSET



Description

This USB2.0 cable has been specially selected for fixed or portable military or industrial applications. Can be ordered as cordset with USB-A at both end or as reel of 300m to be used for cabling activity. Its special polyurethane can withstand the harshest environment.

Design

USB2.0 1 X Data Pair	Conductors	2 x 28 AWG Stranded tinned copper wire (Ø0,39mm)
	Insulation	Polyethylene (Ø0,9mm)
	Colors	Green and White
Power 1 X Power Pair	Conductors	2 x 24 AWG Stranded tinned copper wire (Ø0,58mm)
	Insulation	Polyethylene (Ø1,1mm)
	Colors	Red and Black
Drain Wire	Conductor	26 AWG Stranded tinned copper drain wire
Overall		Aluminate foil overlapped and shield braiding of tinned copper wires (16 x 5 x 0,1)
Jacket	Insulation	UV resistant polyurethane (Ø5,1±0,2mm)
	Color	Black

Electrical characteristics at 20°C

USB2.0 1 X Data Pair	Test voltage	1000 V
	Attenuation (dB/100m)	1 MHz - 4,0
		4 MHz - 5,5
		8 MHz - 8,2
		12 MHz - 9,9
		24 MHz - 14,1
Power Wire	Conductor resistance	≤ 90 Ohm/km
	Insulation resistance	≥ 20 MOhm*km
	Operating voltage	≤ 100 V
	Test voltage	1000 V

Other characteristics

Halogen Free Flame Retardant	Resistance to microbial/fungus growth: MIL-STD-810G, method 508.6 = grade 1-2
Oil resistance acc. to 1584, sec. 480 (60°)	Min. bending radius allowed: repeated 10 X Ø single 5 X Ø
Flame retardant acc. to UL 1581, sec. 1090 (H)	Permissible temperature range for transport, installation and operating: -40°C up to 85°C
Flame retardant acc. to IEC 60332-1-2	
RoHS compliant (Directive 2011/65/EC)	Weight: 46 kg/km

How to order : Please refer from page 127