USB3-2624

USB3-2624 USB 3.1 CABLE

Jacket | Shield #3 | Shield #2 | Shield #1 | Dielectric | Filler | Power Conductor | Data Conductor

CABLE CONSTRUCTION

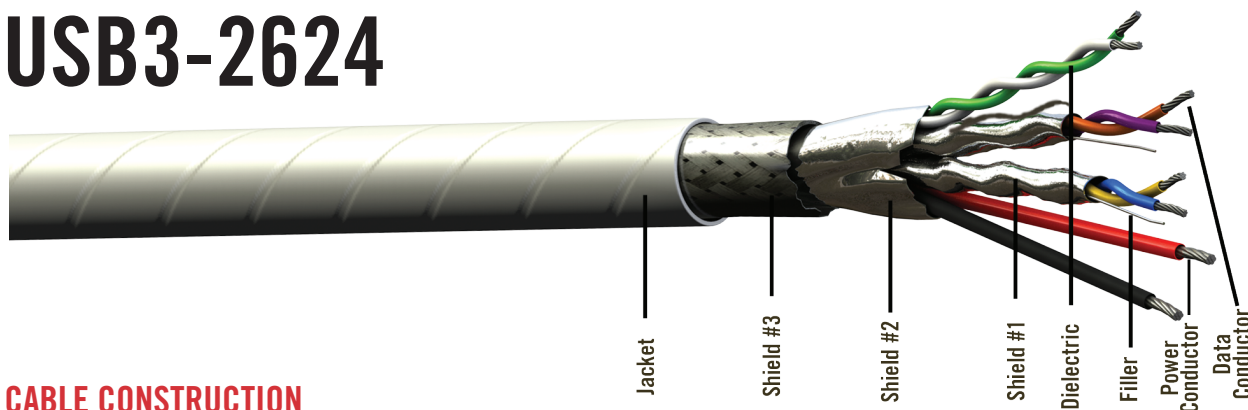|	
Unshielded Conductor:	Silver-Plated High Strength Copper Alloy
Shielded Conductor:	Silver-Plated High Strength Copper Alloy
Drain Wire:	Silver-Plated Copper
Dielectric:	PFA
Power Conductor:	Silver-Plated High Strength Copper Alloy

Shield #1: Aluminum/Polyimide Foil (ea. pair)
Shield #2: Aluminum/Polyimide Foil
Shield #3: Silver-Plated Copper Braid
Jacket: PTFE, White (Laser Markable)

COLOR CODES

Twisted Data Pair: White, Green
Shielded Data Pair #1: Violet, Orange

Shielded Data Pair #2: Yellow, Blue
Power Pair: Red, Black

The USB3-2624 is a USB 3.1 cable specially designed for high speed airborne applications and delivers performance up to 10Gb. The USB3-2624 cable will perform as a USB 3.1 & USB 3.0 cable solution and is also backwards compatible for USB 2.0. It's twisted-pair construction of silver-plated copper conductors is surrounded by PFA insulation and 100% foil and 80% braided shielding assure uniform conductivity with excellent solderability, further protecting against EMI. A PTFE laser-markable jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation.

PHYSICAL DATA

Conductors:
Data Pair:	26 AWG Stranded SPHSCA
Power Wires:	24 AWG Stranded SPHSCA
Drain Wire:	28 AWG Stranded SPC
Shield Coverage:	100% (Foil), 80% (Braid)
Temperature Range:	-55 to +200°C
Outer Diameter: in (mm)	0.209 (5.31)
Minimum Bend Radius: in (mm)	2.0 (50.8)
Weight: lbs/100 ft (kg/100 m)	3.4 (5.06)

ELECTRICAL DATA

Impedance:	90 ohms
Capacitance: pF/ft (m)	
Conductor to Conductor:	16.7 (55.00)
Time Delay: nS/ft (nS/m)	1.46 (4.79)
DC Resistance: (ohms/1000 ft.) (m)	
Power Pair:	28.4 (93.2)

ENVIRONMENTAL DATA

Skydrol Resistant: SAE AS4373E, Method 601
RoHS Compliant: RoHS Directive 2002/95/EC)
Flame / Smoke Requirements: FAR Part 25.869 (a) App. F, Part 1, (a)(3)
Berry Specialty Metals Compliance: Complies with DFARS 252.225-7014, Alt 1

ATTENUATION DATA

Frequency	Nom/Max dB/ft	Nom/Max (dB/m)
@625 MHz	0.3/0.3	(1.0/1.1)
@1250 MHz	0.4/0.5	(1.4/1.5)
@2500 MHz	0.6/0.7	(2.0/2.2)
@5000 MHz	0.9/1.0	(3.0/3.4)
@7500 MHz	1.3/1.4	(4.1/4.6)

All values nominal, unless otherwise noted

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