

Thermax

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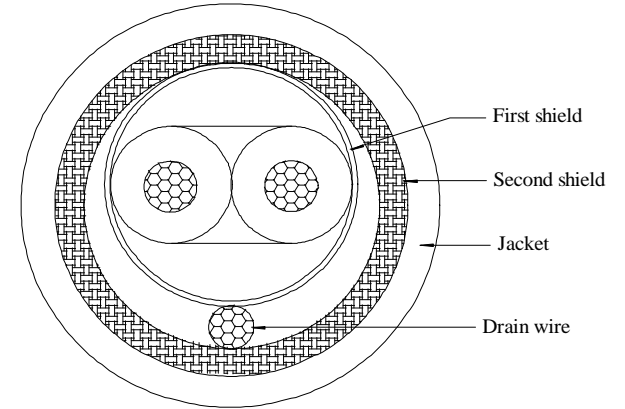
Scope: This specification defines the physical and electrical characteristics of a Full Speed USB cable.

Construction Details - High Speed Data Bus Cable (USB)

Conductor	26 AWG 19 x 38 silver plated copper alloy	Diameter (inch) Nom.	.0189
Insulation	Extruded polytetrafluoroethylene (PTFE) Colors: White & Green		.043
Cabling	Two insulated conductors cabled together with .75-1.0" nominal lay		.086

Properties

Impedance (Differentially)	90 ohms ± 10%
Velocity of Propagation	24 Ns/5 m (max.)
	<u>dB/100 ft.</u> <u>dB/5 m</u>
Attenuation @ 100 MHz	10.5 1.7 +10% (max.)
200 MHz	16.0 2.6 +10% (max.)
400 MHz	22.0 3.6 +10% (max.)



Final Assembly

First Shield	Aluminum/polyester tape (foil out)	.090
Second Shield	38 AWG tin plated copper braid having 85% minimum coverage 26 AWG tin plated copper drain wire run parallel under the shield	.127
Jacket	Extruded fluorinated ethylene propylene (FEP) Color: White	.147 .155 (max.)
Weight		14 lbs./1,000 ft. (nom.) 17 lbs./1,000 ft. (max.)
Temperature Rating		150°C
Hipot - All wires to shield		1,500 V

Non-Controlled Copy

Cable meets the flammability requirements of FAR 25.853 and Smoke & Toxicity of ABD0031 Issue E.
 Primary insulation and cable jacket material are Fungus resistant

Product Specification			Revisions			
1031-215B			Rev.	Description	Date	Approved
Prepared by	Date	Page	--	Initial release	11/24/04	JAD
VT	11/24/04	1 of 1	A	Editorial	04/23/08	JAD

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Cage Code
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