Blue Jeans Cable Series-FE (Rev 0, 12/10/09)
(28 AWG, with Ethernet)

I. Description
Patented bonded-pair HDMI Cable

II. Electrical Characteristics
Maximum Operating Voltage: 300V RMS
Maximum Current per Conductor @ 25°C: (24AWG): 1.26 A
Nom. Conductor DC Resistance @ 25°C of 28AWG Conductors: 62.3 Ω/1000'
Nom. Shield DC Resistance @ 25°C of Individual Shields: 24.4 Ω/1000'
of Overall Shield: 3.7 Ω/1000'
Capacitance between Conductors of Shielded TMDS Pairs: 15.3 pF/ft nominal
Nominal Impedance of Shielded Pairs: 16.5 pF/ft nominal
Nominal Return Loss of Shielded Pairs: 100 +/- 10 Ω (TDR)
Nom. Delay Skew Between Pairs Conductors of Pair (TDR): 0.8 ns/ft (Estimated)
Nominal Attenuation @ 25°C of TMDS pairs:
- 9.6 dB/100' @ 100 MHz
-13.3 dB/100' @ 200 MHz
-19.3 dB/100' @ 400 MHz
-21.9 dB/100' @ 500 MHz
-24.3 dB/100' @ 600 MHz
-28.9 dB/100' @ 825 MHz
-32.2 dB/100' @ 1.0 GHz
-36.1 dB/100' @ 1.2 GHz
-45 dB/100' @ 1.6 GHz
-48 dB/100' @ 1.9 GHz
Nominal Attenuation @ 25°C of HEAC pair:
-1.8 dB/100' @ 0.3 MHz
-5.5 dB/100' @ 10 MHz
-19.7 dB/100' @ 200 MHz
Far End Cross Talk (FEXT):
-35 dB 1MHz - 5.1 GHz (Estimated)

III. Physical Characteristics
TMDS & Clock Pairs (4):
Conductor Material & Diameter: 28AWG (solid) Bare Copper, .0129" nominal
Insulation Material & Diameter: Polyolefin, .043” nominal
Shield Material & % Coverage: Al/Polyester tapes w/ 28AWG (solid) TC Drain wires
Color Code: Orange & White/Orange, Brown & White/Brown, Green & White/Green, Blue & White/Blue

HEAC/DDC/CEC Ground/Utility/Hot Plug (1 Pair):
Conductor Material & Diameter: 28AWG (solid) Bare Copper, .0129” nominal
Insulation Material & Diameter: Foamed Polyolefin, .035” nominal
Shield Material & % Coverage: Al/Polyester tapes w/ 28AWG (solid) TC Drain wire
Color Code: Red & Green

CEC, SCL, SDA, & +5V conductors:
Conductor Material & Diameter: 28AWG (solid) Bare Copper, .0129” nominal
Insulation Material & Diameter: Polyolefin, .027” nominal
Color Code: Brown, Orange, Blue, Violet

Overall Shield Material & % Coverage: Al/Polyester tape (100%), 28AWG (solid) Tinned Copper Drain wire, 38AWG Tinned Copper Braid (85%)

Overall Jacket Material & Diameter:
FR PVC, .277” +/- .010”

Temperature Rating:
-20 to +60°C
Max. Pulling Tension:
60 lbs
Min. Bend Radius:
3.00”
Weight:
45 lbs/1000’
Applicable Specifications:
EU RoHS Compliant
Flame Resistance:
None