

Belden Part Number YR51157

I. Description

Custom DVI/HDMI Composite Cable – Four 23.5AWG (solid) bonded pairs are individually shielded for high-speed data. Seven 24AWG (solid) conductors for control applications. Overall foil and Braid shields. Overall Flame Retardant Matte PVC jacket.

II. Electrical Characteristics

Maximum Operating Voltage:	300V RMS
Maximum Current per Conductor @ 25°C: 2.5 A	
Nominal Impedance of Shielded Pairs:	100 +/- 10 Ω, TDR
Capacitance between Conductors	
of 23.5AWG Shielded Pairs:	15.5 pF/ft nominal
of 24AWG Conductors:	17.1 pF/ft nominal
Nom. Conductor DC Resistance @ 25°C	
of 23.5AWG Conductors:	22.4 Ω/1000'
of 24AWG Conductors:	26.2 Ω/1000'
Nom. Shield DC Resistance @ 25°C	
of Individual Shields:	19.3 Ω/1000'
of Overall Shields:	2.0 Ω/1000'
Nom. Delay Skew Between Pairs	6.0 ps/ft
Conductors of Pair (TDR):	2.4 ps/ft
Attenuation @ 25°C of high-speed pairs:	
	-10.9 dB/100' @ 300 MHz -26.0 dB/100' @ 1.9 GHz
	-13.2 dB/100' @ 400 MHz -28.0 dB/100' @ 2.1 GHz
	-15.1 dB/100' @ 500 MHz -30.0 dB/100m @ 2.475 GHz
	-16.8 dB/100' @ 600 MHz -30.5 dB/100m @ 3 GHz
	-17.9 dB/100' @ 700 MHz -31.5 dB/100' @ 3.25 GHz
	-19.8 dB/100' @ 825 MHz -32.5 dB/100' @ 3.5 GHz
	-21.2 dB/100' @ 1.0 GHz -32.7 dB/100' @ 4.0 GHz
	-22.0 dB/100' @ 1.3 GHz -33.5 dB/100' @ 4.125 GHz
	-24.5 dB/100' @ 1.6 GHz
Maximum Far End Cross Talk (FEXT):	-30 dB 1MHz - 4.125 GHz (Estimated)

III. Physical Characteristics

Bonded, Shielded High-Speed Pairs (4):

Conductor Material & Diameter: 23.5 AWG (solid) Tinned Copper, .022"
 Insulation Material & Diameter: Solid Polyolefin, .074" nominal
 Shield Material & % Coverage: Al/Polyester tapes w/ 24AWG (solid) TC Drain wires
 Color Code: Orange & White, Brown & White, Green & White, Blue & White

Control Conductors (7):

Conductor Material & Diameter: 24AWG(solid) Tinned Copper, .0206" nominal
 Insulation Material & Diameter: PVC insulation, .041" nominal
 Color Code: Blue, Violet, Orange, Yellow, Green, Brown, Red

Overall Shield Material & % Coverage: Al/Polyester tape (100%), 36AWG Tinned Copper Braid (82%)

Overall Jacket Material & Diameter: FR Matte PVC, .435" +/- .010"

Temperature Rating: -20 to +75°C
 Max. Pulling Tension: 172 lbs
 Min. Bend Radius: 4.25"
 Weight: 97 lbs/1000'
 Applicable Specifications: EU RoHS Compliant
 UL Type CM
 C(UL) Type CM
 UL1581 Vertical Tray

Flame Resistance:

