

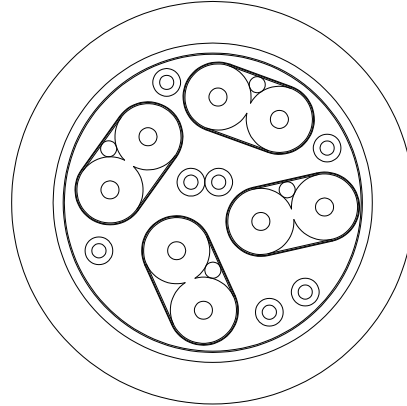
Belden Part Number YR51157 (Rev 2, 2/10/10)

I. Description

HDMI Composite Cable – Four patented 23.5AWG (solid) bonded pairs are individually shielded for Clock & Data. Seven 24AWG (solid) conductors for control applications. Overall foil and braid shields. Overall Flame Retardant PVC jacket.

II. Electrical Characteristics

Maximum Operating Voltage:	300V RMS
Maximum Current per Conductor @ 25°C: (23.5/24AWG):	3.0 A
Nom. Conductor DC Resistance @ 25°C	
of 23.5/24AWG Conductors:	24.0 Ω/1000'
Nom. Shield DC Resistance @ 25°C	
of Individual Shields:	15.0 Ω/1000'
of Overall Shield:	1.75 Ω/1000'
Capacitance between Conductors	
of Shielded Pairs:	15.3 pF/ft nominal
of Control Pairs:	16.5 pF/ft nominal
Nominal Impedance of Shielded Pairs:	100 +/- 10 Ω (TDR)
Nominal Return Loss of Shielded Pairs:	-15dB, 1-1200 MHz
Nom. Delay Skew Between Pairs	0.8 ns/ft (Estimated)
Conductors of Pair (TDR):	2.0 ps/ft (Estimated)



Nominal Attenuation @ 25°C of Clock & Data pairs:

- 6.0 dB/100' @ 100 MHz	-34 dB/100' @ 2.1 GHz*
- 8.3 dB/100' @ 200 MHz	-38 dB/100' @ 2.475 GHz*
-13.5 dB/100' @ 400 MHz	-42 dB/100' @ 3 GHz*
-15.1 dB/100' @ 500 MHz	-45 dB/100' @ 3.25 GHz*
-16.9 dB/100' @ 600 MHz	-47 dB/100' @ 3.5 GHz*
-19.8 dB/100' @ 825 MHz	-48 dB/100' @ 4.0 GHz*
-21.2 dB/100' @ 1.0 GHz	-50 dB/100' @ 4.125 GHz*
-24.1 dB/100' @ 1.2 GHz	-54 dB/100' @ 5.1 GHz*
-30 dB/100' @ 1.6 GHz*	
-32 dB/100' @ 1.9 GHz*	*estimated
Far End Cross Talk (FEXT):	-35 dB 1MHz - 5.1 GHz (Estimated)

III. Physical Characteristics

Bonded, Shielded High-Speed Pairs (4):

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

Control Conductors (7):

Conductor Material & Diameter: 24AWG (solid) Bare Copper, .020" nominal
 Insulation Material & Diameter: PVC insulation, .041" nominal
 Color Code: Brown, Red, Orange, Yellow, Green, Blue, Violet

Overall Shield Material & % Coverage:

Al/Polyester tape (100%), 24AWG (solid) Tinned Copper Drain wire, 36AWG Tinned Copper Braid (82%)

Overall Jacket Material & Diameter:

FR PVC, .435" +/- .010"
 Temperature Rating: -20 to +60°C
 Max. Pulling Tension: 130 lbs
 Min. Bend Radius: 4.5"
 Weight: 88 lbs/1000'
 Applicable Specifications: EU RoHS Compliant
 UL Type CM, C(UL) Type CM
 Flame Resistance: UL1581 Vertical Tray