

Belden Americas Division

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www.belden.com

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:

Maximum Current per Conductor @ 25°C: 2.5 A

Nominal Impedance of Shielded Pairs:

Capacitance between Conductors

of 23.5 AWG Shielded Pairs:

of 24AWG Conductors:

Nom. Conductor DC Resistance @ 25°C of 23.5AWG Conductors:

of 24AWG Conductors:

Nom. Shield DC Resistance @ 25°C

of Individual Shields:

of Overall Shields:

Nom. Delay Skew Between

Pairs

Conductors of Pair (TDR):

Attenuation @ 25°C of high-speed pairs:

300V RMS

 $100 + / - 10 \Omega$, TDR

15.5 pF/ft nominal

17.1 pF/ft nominal

22.4 Ω/1000'

26.2 Ω/1000'

19.3 Ω/1000'

 $2.0 \Omega/1000$

6.0 ps/ft 2.4 ps/ft

-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

-33.5 dB/100' @ 4.125 GHz

-22.0 dB/100' @ 1.3 GHz -24.5 dB/100' @ 1.6 GHz

-30 dB 1MHz - 4.125 GHz (Estimated)

23.5 AWG (solid) Tinned Copper, .022" Solid Polyolefin, .074" nominal

III. **Physical Characteristics**

Bonded, Shielded High-Speed Pairs (4):

Maximum Far End Cross Talk (FEXT):

Conductor Material & Diameter: Insulation Material & Diameter: Shield Material & % Coverage:

Color Code:

Control Conductors (7):

Conductor Material & Diameter: Insulation Material & Diameter:

Color Code:

Overall Shield Material & % Coverage:

Overall Jacket Material & Diameter:

Temperature Rating: Max. Pulling Tension: Min. Bend Radius:

Weight:

Applicable Specifications:

Flame Resistance:

PVC insulation, .041" nominal

Blue, Violet, Orange, Yellow, Green, Brown, Red

24AWG(solid) Tinned Copper, .0206" nominal

Al/Polyester tapes w/ 24AWG (solid) TC Drain wires

Al/Polyester tape (100%), 36AWG Tinned Copper Braid (82%)

Orange & White, Brown & White, Green & White, Blue & White

FR Matte PVC, .435" +/- .010"

-20 to +75°C

172 lbs

4.25"

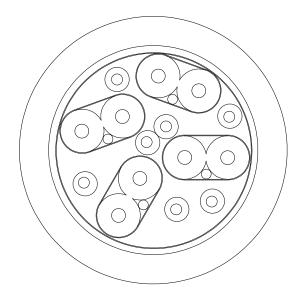
97 lbs/1000'

EU RoHS Compliant

UL Type CM

C(UL) Type CM

UL1581 Vertical Tray



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