

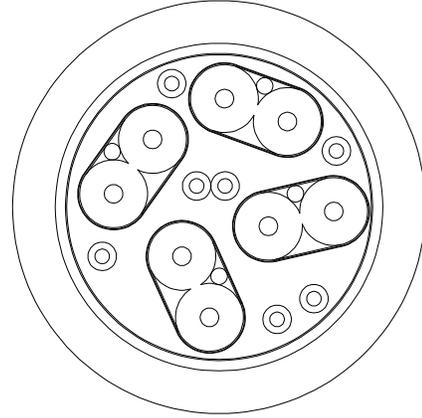
## Belden Part Number YR52550 (Rev 0, 6/3/08)

### I. Description

HDMI Composite Cable – Four patented 28AWG (solid) bonded pairs are individually shielded for Clock & Data. Seven 28AWG (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: (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 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:

- 9.6 dB/100' @ 100 MHz	-51 dB/100' @ 2.1 GHz*
-13.3 dB/100' @ 200 MHz	-57 dB/100' @ 2.475 GHz*
-19.3 dB/100' @ 400 MHz	-63 dB/100' @ 3 GHz*
-21.9 dB/100' @ 500 MHz	-67 dB/100' @ 3.25 GHz*
-24.3 dB/100' @ 600 MHz	-70 dB/100' @ 3.5 GHz*
-28.9 dB/100' @ 825 MHz	-72 dB/100' @ 4.0 GHz*
-32.2 dB/100' @ 1.0 GHz	-75 dB/100' @ 4.125 GHz*
-36.1 dB/100' @ 1.2 GHz	-81 dB/100' @ 5.1 GHz*
-45 dB/100' @ 1.6 GHz*	
-48 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:	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

#### **Control Conductors (7):**

Conductor Material & Diameter:	28AWG (solid) Bare Copper, .0129" nominal
Insulation Material & Diameter:	Polyolefin, .027" nominal
Color Code:	Brown, Red, Orange, Yellow, Green, 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:**

Temperature Rating:	FR PVC, .303" +/- .010"
Max. Pulling Tension:	-20 to +60°C
Min. Bend Radius:	62 lbs
Weight:	3.25"
Applicable Specifications:	49 lbs/1000'
Flame Resistance:	EU RoHS Compliant
	UL Type CM, C(UL) Type CM
	UL1581 Vertical Tray