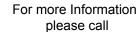
# **Detailed Specifications & Technical Data**

**METRIC MEASUREMENT VERSION** 



# **HD2004 Composite - HDMI Assembly**



1-800-Belden1



#### **General Description:**

Usage (Overall)

4 Meter HDMI Assembly. HDMI Composite Cable - 4 pairs (26 AWG stranded (7x34) bare copper conductors, foam polyolefin insulation, individual Beldfoil® shield (100% coverage) with drain wire; 7 conductors (26 AWG stranded (7x34) tinned copper conductors, polyolefin insulation); overall Beldfoil® shield (100% coverage) plus tinned copper braid shield (75% coverage) with drain wire, FR-PVC jacket.

Suitable Applications:		HDMI Inte	rfaces
Twisted Pair			
Physical Characteristics Conductor AWG:  # Pairs AWG Stranding Conductor Mater 4   26   7x34   BC - Bare Copper		1	
Insulation Insulation Material: Insulation Material Foamed Polyolefin		1	
Individual Shield			
Individual Shield Material:		Aluminum	Foil-Polyester Tape
Individual Shield Drain Wire:  AWG Stranding Conductor Material 26   7x34   TC - Tinned Copper  Electrical Characteristics Nom. Characteristic Impedance:  Description Impedance (Ohm) Tolerance			
Shield Pairs 100 ± 10			
Nominal Delay:  Description  Between Pairs  Between Conductors of Pairs			
Nominal Delay Skew:			
Description   Delay Skew (ps/r   Between Pairs   6.87   Between Conductors of Pair   3.14   Ind. Pair Nominal Shield DC Resistance @ 20		63.323 Oh	m/km
Nominal Outer Shield DC Resistance:			
DCR @ 20°C (Ohm/km) 16.077			
Nominal FEXT:			
Description FEXT  1 MHz - 5.1 GHz   -26.7 dB			
Nom. Attenuation:			
Description	Freq. (MHz)	Attenuation (MHz)	
@ 25°C of Clock and Data pairs	825.000	-0.5 dB	
@ 25°C of Clock and Data pairs (Freq. in GHz)	2.475	-1.9 dB	

-2.3 dB

-3.0 dB

@ 25°C of Clock and Data pairs (Freq. in GHz) 4.125 @ 25°C of Clock and Data pairs (Freq. in GHz) 5.100

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# **Detailed Specifications & Technical Data**

#### METRIC MEASUREMENT VERSION



# **HD2004 Composite - HDMI Assembly**

#### **Multi Conductor**

**Physical Characteristics** 

Conductor

AWG:

 # Conductors
 AWG
 Stranding
 Conductor Material
 Dia. (mm)

 7
 26
 7x34
 TC - Tinned Copper
 0.483

#### Insulation

Insulation Material:

Insulation Material
PO - Polyolefin

#### Individual Shield

#### **Electrical Characteristics**

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 122.381

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Description	Current
per Conductor @25°C (24 AWG)	1.6 Amps

### **Physical Characteristics (Overall)**

#### **Outer Shield**

Outer Shield Material:

Layer	er # Outer Shield Trade Name		Outer Shield Material	Coverage (%)	
1	Beldfoil®	Таре	Aluminum Foil-Polyester Tape	100.000	
2		Braid	TC - Tinned Copper	75.000	

#### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
26	7x34	TC - Tinned Copper

#### **Outer Jacket**

Outer Jacket Material:

Outer Jacket Material
F-R PVC - Flame Retardant Polyvinyl Chloride

#### **Overall Cable**

Overall Nominal Diameter: 8.204 mm

# **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +60°C	
Max. Recommended Pulling Tension:	440.372 N	
Min. Bend Radius/Minor Axis:	82.550 mm	

# **Applicable Specifications and Agency Compliance (Overall)**

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CL2, CM
CEC/C(UL) Specification:	CM
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/21/2008
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

# Flame Test

UL Flame Test: UL1581 Vertical Tray

# Plenum/Non-Plenum

Plenum (Y/N): No

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# **Detailed Specifications & Technical Data**

#### METRIC MEASUREMENT VERSION



# **HD2004 Composite - HDMI Assembly**

#### **Electrical Characteristics (Overall)**

Other Electrical Characteristic 1:

720P/1080i Verified (Category 1), 1080P Verified (Category 2)

#### **Related Documents:**

HDMI.pdf - HDMI document

#### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
HD2004 010S1	1 EA	1.100 EA	BLACK		4 METER HDMI ASSEMBLY

Revision Date: 05-06-2013 Revision Number: 0

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