# **Detailed Specifications & Technical Data**

**ENGLISH MEASUREMENT VERSION** 



# **HD2004 Composite - HDMI Assembly**

For more Information please call

1-800-Belden1



# **Description:**

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.

# **Usage (Overall)**

Suitable Applications:

**HDMI Interfaces** 

# **Twisted Pair**

#### **Physical Characteristics**

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
4	26	7x34	BC - Bare Copper	0.019

#### Insulation

Insulation Material:

Insulation Material
Foamed Polyolefin

### **Individual Shield**

**Individual Shield Material:** 

Aluminum Foil-Polyester Tape

## Individual Shield Drain Wire:

AWG	•	<b>Conductor Material</b>
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/ft)	
Between Pairs	6.87	
Between Conductors of Pair	3.14	

Ind. Pair Nominal Shield DC Resistance @ 20

19.300 Ohm/1000 ft

Deg. C:

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 4.900

#### **Nominal FEXT:**

Description	FEXT
1 MHz - 5.1 GHz	-26.7 dB

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#### 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
@ 25°C of Clock and Data pairs (Freq. in GHz)	4.125	-2.3 dB
@ 25°C of Clock and Data pairs (Freq. in GHz)	5.100	-3.0 dB

# **Multi Conductor**

# **Physical Characteristics**

#### Conductor

AWG:

# Conductors	AWG	Stranding	<b>Conductor Material</b>	Dia. (in.)
7	26	7x34	TC - Tinned Copper	0.019

### Insulation

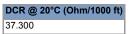
**Insulation Material:** 



#### **Individual Shield**

#### **Electrical Characteristics**

Nom. Conductor DC Resistance:



Max. Operating Voltage - UL:



Max. Recommended Current:

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

# **Physical Characteristics (Overall)**

#### **Outer Shield**

# **Outer Shield Material:**

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	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: 0.323 in.

# **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +60°C	
Max. Recommended Pulling Tension:	99 lbs.	
Min. Bend Radius (Install)/Minor Axis:	3.250 in.	

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

# **Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CL2, CM

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# **Detailed Specifications & Technical Data**





# **HD2004 Composite - HDMI Assembly**

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				
ame Test					
UL Flame Test:	UL1581 Vertical Tray				
Other Flame Test:	720P/1080i Verified (Category 1), 1080P Verified (Category 2)				
enum/Non-Plenum					
Plenum (Y/N):	No				

### **Related Documents:**

HDMI.pdf - HDMI document

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

Item #	Putup	Ship Weight	Color	Notes	Item Desc
HD2004 010B5	5 EA	27.500 LB	BLACK		4 METER HDMI ASSEMBLY-BOX OF 5

Revision Number: 0 Revision Date: 10-14-2009

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