



Product: [1353A](#)

Digital Audio Cable, 2 Conductor 24 AWG, BC, CMR

Product Description

Analog/Digital Audio Cable, Riser-CMR, 1-24 AWG stranded bare copper bonded-pair, polyolefin insulation, PVC jacket

Technical Specifications

Product Overview

Suitable Applications:	Field Deployable Cat 5e Patch, CobraNet, eSnake, Ethersound, Digital Audio over Ethernet
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Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of Pairs
24	7x32	BC - Bare Copper	0.022 in	1
Conductor Count:			2	
Total Number of Pairs:			1	

Insulation		
Material	Nominal Diameter	Nominal Wall Thickness
PP - Polypropylene	0.041 in	0.0085 in

Color Chart	
Number	Color
1	White/Brown Stripe & Brown

Outer Shield Material	
Material	No Shield

Outer Jacket Material		
Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.126 in	0.022 in

Electrical Characteristics

Conductor DCR	
Max. Conductor DCR	Max. DCR Unbalance
90 Ohm/km	3 %

Capacitance	
Nom. Capacitance Conductor to Conductor	
14.5 pF/ft	

Impedance	
Nominal Characteristic Impedance	
100 Ohm	

High Frequency (Nominal/Typical)

Frequency [MHz]
1 MHz
4 MHz
6 MHz
8 MHz
10 MHz
12 MHz
16 MHz
20 MHz
25 MHz
31.25 MHz
62.5 MHz
100 MHz

Delay

Max. Delay	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
510 ns/100m	510 ns/100m	70 %

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. RL (Return Loss) [dB]	Min. SRL (Structural Return Loss)	Max./Min. Fitted Impedance
1 MHz	2.4 dB/100m	20 dB	23 dB	105 ± 15
4 MHz	4.9 dB/100m	23 dB	23 dB	100 ± 15
6 MHz	6 dB/100m			100 ± 15
8 MHz	6.9 dB/100m	24.5 dB	23 dB	100 ± 15
10 MHz	7.8 dB/100m	25 dB	23 dB	100 ± 15
12 MHz	8.4 dB/100m			100 ± 15
16 MHz	9.9 dB/100m	25 dB	23 dB	100 ± 15
20 MHz	11.1 dB/100m	25 dB	23 dB	100 ± 15
25 MHz	12.5 dB/100m	24.3 dB	22 dB	100 ± 15
31.25 MHz	14.1 dB/100m	23.6 dB	21 dB	100 ± 15
62.5 MHz	20.4 dB/100m	21.5 dB	18 dB	100 ± 15
100 MHz	26.4 dB/100m	20.1 dB	16 dB	100 ± 15

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

Operating Temp Range:	-20°C To +60°C
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Mechanical Characteristics

Bulk Cable Weight:	8 lbs/1000ft
Max Recommended Pulling Tension:	18 lbs
Min Bend Radius/Minor Axis:	1.5 in

Standards

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
ISO/IEC Compliance:	11801 Category 5e Patch
CPR Euroclass:	Eca
Telecommunications Standards:	568-B.2 Category 5e Patch
Other Specification:	NEMA WC-63.1 Category 5, ICEA 661, Category 5e Patch, TIA/EI-568-B.2, Category 5e

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Riser
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2007-03-15
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
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Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1666 Riser
CSA Flammability:	FT4
ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
1353A 010500	Black	Reel	500 ft	612825112600
1353A 0101000	Black	Reel	1,000 ft	612825112594
1353A 010U1000	Black	UnReel	1,000 ft	612825112587
1353A 006U1000	Blue, Light	UnReel	1,000 ft	612825112549
1353A 001U1000	Brown	UnReel	1,000 ft	612825112501
1353A 008U1000	Gray	UnReel	1,000 ft	612825112563
1353A N3UU1000	Green, Mil	UnReel	1,000 ft	612825112495
1353A 003U1000	Orange	UnReel	1,000 ft	612825112525
1353A 002U1000	Red	UnReel	1,000 ft	612825112518
1353A 007U1000	Violet	UnReel	1,000 ft	612825112556
1353A 009U1000	White	UnReel	1,000 ft	612825112570
1353A 004U1000	Yellow	UnReel	1,000 ft	612825112532

Product Notes

Notes:	EtherNet/IP is a trademark of ControlNet Internation, Ltd. under license by Open DeviceNet Vendor Association, Inc. Operating temperatures are subject to length de-rating.
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History

Update and Revision:	Revision Number: 0.316 Revision Date: 04-28-2020
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