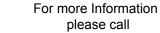
Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



8112 Multi-Conductor - Parallel Digital Video



1-800-Belden1



General Description:

24 AWG stranded (7x32) TC conductors, Datalene® insulation, twisted pairs, overall Beldfoil® + TC braid shield (65% coverage), TC drain wire, PVC jacket.

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Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	# Pairs	AWG	Stranding	Conductor Material
1	12	24	7x32	TC - Tinned Copper

Total Number of Conductors:

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (in.)
Datalene®	FPE - Foam Polyethylene	0.013

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape w/Shorting Fold	100
2		Braid	TC - Tinned Copper	65

Outer Shield Drain Wire AWG:

	_	Drain Wire Conductor Material
24	7x32	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.035

Overall Cable

Overall Nominal Diameter:

0.440 in.

Pair

Pair Color Code Chart:

Number	Color
1	White/Blue & Blue/White
2	White/Orange & Orange/White
3	White/Green & Green/White
4	White/Brown & Brown/White
5	White/Gray & Gray/White
6	Red/Blue & Blue/Red
7	Red/Orange & Orange/Red
8	Red/Green & Green/Red
9	Red/Brown & Brown/Red
10	Red/Gray & Gray/Red
11	Black/Blue & Blue/Black
12	Black/Orange & Orange/Black
Single Conductor	Gray

Pair Lay Length & Direction:

Lay Length (in.)		
1.250	9.600	Left Hand

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	92 lbs/1000 ft.

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Max. Recommended Pulling Tension:	77 lbs.			
Min. Bend Radius/Minor Axis:	4.500 in.			
Applicable Specifications and Agency Compliance	e (Overall)			
Applicable Standards & Environmental Programs				
NEC/(UL) Specification:	СМ			
NEC Articles:	800			
CEC/C(UL) Specification:	CM			
AWM Specification:	UL Style 2919 (30 V 80°C)			
EU Directive 2011/65/EU (ROHS II):	Yes			
EU CE Mark:	No			
EU Directive 2000/53/EC (ELV):	Yes			
EU Directive 2002/95/EC (RoHS):	Yes			
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004			
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:	UL1685 UL Loading			
CSA Flame Test:	FT1			
Suitability				
Suitability - Indoor:	Yes			
Plenum/Non-Plenum				
Plenum (Y/N):	No			
Plenum Number:	88112			

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
12.5

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
22

Nominal Velocity of Propagation:

VP (%) 78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 2.4

Max. Operating Voltage - UL:

Voltage Description
300V RMS UL type CM
30V RMS UL AWM 2919

Max. Recommended Current:

| Description | Current | 10C Temperature rise | 1.1 Amps per conductor @ 25°C rise

Notes (Overall)

Notes: Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

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Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8112 060100	100 FT	10.900 LB	CHROME		12 PR+1 #24 FHDPE SH PVC
8112 0601000	1,000 FT	101.000 LB	CHROME	С	12 PR+1 #24 FHDPE SH PVC
8112 060500	500 FT	51.000 LB	CHROME	С	12 PR+1 #24 FHDPE SH PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 08-07-2013

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