



Product: [8110NH](#)

Low Capacitance Computer Cable for EIA RS-232/422

Product Description

10-Pair, 24 AWG stranded (7x32) TC conductors, Datalene® insulation, twisted pairs, overall Beldfoil® (100% coverage) + TC braid shield (65% coverage), 24 AWG stranded TC drain wire, PVC jacket, Flame resistance EC 60332-3C

Technical Specifications

Product Overview

Suitable Applications:	Instrumentation and computer cable; For data transmission applications
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
24	7x32	TC - Tinned Copper	10

Conductor Count:	20
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Insulation

Material	Material Trade Name	Nominal Diameter	Diameter +/- Tolerance
PE - Polyethylene (Foam)	Datalene®	1.24 mm	0.06 mm

Color Chart

Number	Color
Pair 1	White/Blue & Blue/White
Pair 2	White/Orange & Orange/White
Pair 3	White/Green & Green/White
Pair 4	White/Brown & Brown/White
Pair 5	White/Gray & Gray/White
Pair 6	Red/Blue & Blue/Red
Pair 7	Red/Orange & Orange/Red
Pair 8	Red/Green & Green/Red
Pair 9	Red/Brown & Brown/Red
Pair 10	Red/Gray & Gray/Red

Outer Shield Material

Type	Material	Material Trade Name	Thickness of Foil	Drainwire Material	Drainwire AWG	Min. Coverage [%]
Tape	Bi-Laminate (Alum+Poly)	Beldfoil® (Z-Fold®)	9 / 12 µm	TC - Tinned Copper	AWG24/7	
Braid	Tinned Copper (TC)					65%

Outer Jacket Material

Material	Nominal Diameter	Min. Wall Thickness	Min. Average Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	10.29 mm	0.7 mm	0.813 mm

Construction and Dimensions

Cabling

Description	Filler

2 fillers and 10 pairs twisted to cable core Polypropylene (2x)

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
78.7 Ohm/km	8.5 Ohm/km

Capacitance

Max. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
45.9 pF/m	41 pF/m	72.2 pF/m

Inductance

Nominal Pair Inductance
0.75 µH/m

Impedance

Nominal Characteristic Impedance
100 Ohm

Delay

Nominal Velocity of Propagation (VP) [%]
78%

Current

Element	Max. Recommended Current [A]
Conductor	1.5 Amps per Conductor

Voltage

UL Voltage Rating	Voltage Rating [V]
AWM 2919: 30 V	300 V type CM V

Temperature Range

Storage Temp Range:	-45°C To +80°C
Operating Temp Range (Fixed Install):	-45°C To +80°C

Mechanical Characteristics

Max. Pull Tension:	400 N
Min Bend Radius During Installation:	102.9 mm
Min Setting Radius:	51.45 mm

Standards

CENELEC Compliance:	EN 50290-2-27
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Applicable Environmental and Other Programs

Environmental Space:	Indoor
EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-3-24
IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 (EN 61034-2) (VDE 0482-1034) - Smoke Density Min. Transmittance:	60%
UL voltage rating:	30 V RMS (UL AWM Style 2919)

Part Number

Variants

Item #	Color	Putup Type	Length	EAN
8110NH.00152	Chrome	Reel	152 m	8719605017895
8110NH.00305	Chrome	Reel	305 m	8719605017901

History

Update and Revision:

Revision Number: 0.209 Revision Date: 12-22-2020

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