Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



9842NH Multi-Conductor - Low Capacitance Computer Cable for EIA RS-485 Applications





For more Information please call

1-800-Belden1



General Description:

24 AWG stranded (7x32) TC conductors, polyethylene insulation, twisted pairs, overall Beldfoil® (100% coverage) + TC braid shield (90% coverage), 24 AWG stranded TC drain wire, LSZH jacket

Physical Characteristics (Overall)

Conductor

AWG:

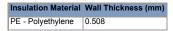
# Pairs	AWG	Stranding	Conductor Material
2	24	7x32	TC - Tinned Copper

Total Number of Conductors:

4

Insulation

Insulation Material:



Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Таре	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	90

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	7x32	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
LSZH - Low Smoke Zero Halogen	0.889

Overall Cable

Overall Nominal Diameter:

8.204 mm

Pair

Pair Color Code Chart:

Number	Color	
1	White/Blue & Blue/White	
2	White/Orange & Orange/White	

Pair Lay Length & Direction:

Lay Length (mm)	Twists (twist/m)	Direction
25.4	39.372	Left Hand Lay

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C
Bulk Cable Weight:	72.922 Kg/Km
Max. Recommended Pulling Tension:	386.993 N
Min. Bend Radius/Minor Axis:	82.550 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes

Page 1 of 3 01-09-2015

Detailed Specifications & Technical Data





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EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	05/10/2012
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 FT4 Loading
C(UL) Flame Test:	FT4
Suitability	
Suitability - Indoor:	Yes
Non-halogenated:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	No
Tronum (1714).	110

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 78.744

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 7.2182

Nom. Attenuation:

Attenuation (dB/100m) 0.6 (@ 1 MHz)

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Current
2.1 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9842NH 0601000	1,000 FT	53.000 LB	CHROME	С	2 PR #24 PO SH FRNHPO
9842NH 060500	500 FT	28.000 LB	CHROME	С	2 PR #24 PO SH FRNHPO

Notes:

C = CRATE REEL PUT-UP.

Page 2 of 3 01-09-2015

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Revision Number: 0 Revision Date: 06-15-2012

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Page 3 of 3