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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
1	24	7x32	TC - Tinned Copper

Total Number of Conductors: 2

### Insulation

Insulation Material:

Insulation Material
PE - Polyethylene

### Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	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 (in.)
LSZH - Low Smoke Zero Halogen	0.035

### Overall Cable

Overall Nominal Diameter: 0.258 in.

### Pair

Pair Color Code Chart:

Color
White/Blue and Blue/White

Pair Lay Length & Direction:

Lay Length (in.)	Twists (twist/ft)	Direction
2.250	5.333	Left Hand Lay

## Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 33 lbs/1000 ft.

Max. Recommended Pulling Tension: 72.300 lbs.

Min. Bend Radius/Minor Axis: 2.500 in.

## 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

EU Directive 2000/53/EC (ELV): Yes

## 9841NH Multi-Conductor - GreenChoice Multi Conductor

EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/09/2012
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MIL Order #39 (China RoHS):	Yes

### Flame Test

UL Flame Test:	UL1685 FT4 Loading
C(UL) Flame Test:	FT4
Other Flame Test:	UL AWM 21088

### Suitability

Suitability - Indoor:	Yes
Non-halogenated:	Yes

### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)  
120

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)  
14.500

### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)  
26.000

### Nominal Velocity of Propagation:

VP (%)  
66

### Nominal Delay:

Delay (ns/ft)  
1.6

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
24

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
3.4

### 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
9841NH 0601000	1,000 FT	37.000 LB	CHROME	C	1 PR #24 PO SH FRNHPO
9841NH 060500	500 FT	20.000 LB	CHROME	C	1 PR #24 PO SH FRNHPO

### Notes:

C = CRATE REEL PUT-UP.

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## **9841NH Multi-Conductor - GreenChoice Multi Conductor**

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.