

## 9841NH Multi-Conductor - GreenChoice Multi Conductor



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
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

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

MII 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

## 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

## 9841NH Multi-Conductor - GreenChoice Multi Conductor

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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