

8641NH Multi-Conductor - GreenChoice Multi Conductor



For more Information
please call

1-800-Belden1

**General Description:**

24 AWG stranded (7x32) TC conductors, polyethylene insulation, twisted pair, overall Beldfoil shield (100% 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	Wall Thickness (mm)
PE - Polyethylene	0.4064

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

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	0.635

Overall Cable

Overall Nominal Diameter: 4.191 mm

Pair

Pair Color Code Chart:

Number	Color
1	Black & Clear

Pair Lay Length & Direction:

Lay Length (mm)	Twists (twist/m)
38.1	26.248

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	17.858 Kg/Km
Max. Recommended Pulling Tension:	48.930 N
Min. Bend Radius/Minor Axis:	43.180 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
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

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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
Other Specification:	UL AWM 21305

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
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

80

Nom. Inductance:

Inductance (µH/m)

0.72182

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

72.182

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

137.802

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

82.025

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

47.9026

Max. Operating Voltage - UL:

Voltage

300 V RMS

Max. Recommended Current:

Current

2.2 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8641NH 0601000	1,000 FT	14.000 LB	CHROME	C	1 FS PR #24 PO FRNHPO
8641NH 060500	500 FT	7.500 LB	CHROME		1 FS PR #24 PO FRNHPO

Notes:

C = CRATE REEL PUT-UP.

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