

8770NH Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information
please call

1-800-Belden1

**General Description:**

18 AWG stranded (16x30) tinned copper conductors, conductors cabled, polyethylene insulation, overall Beldfoil® shield (100% coverage), 20 AWG stranded tinned copper drain wire, NHFRPO jacket.

Physical Characteristics (Overall)**Conductor****AWG:**

# Conductors	AWG	Stranding	Conductor Material
3	18	16x30	TC - Tinned Copper

Total Number of Conductors: 3

Insulation**Insulation Material:**

Insulation Material	Wall Thickness (mm)
PE - Polyethylene	0.4572

Outer Shield**Outer Shield Material:**

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

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
20	Stranded	TC - Tinned Copper

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (mm)
LSZH - Low Smoke Zero Halogen	0.838

Overall Cable**Overall Cabling Lay Length & Direction:**

Length (mm)	Twists (twist/m)
38.09985	26.248

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	Red
3	Clear

Overall Nominal Diameter: 6.248 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +60°C

UL Temperature Rating: 60°C

Bulk Cable Weight: 56.552 Kg/Km

Max. Recommended Pulling Tension: 329.167 N

Min. Bend Radius/Minor Axis: 63.500 mm

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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):	05/07/2012
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)
69

Nom. Inductance:

Inductance (μH/m)
0.605016

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
78.744

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
157.488

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
21.6546

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
27.8885

Max. Operating Voltage - UL:

Voltage
300 V RMS (UL AWM Style 2093)

Max. Recommended Current:

Current

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5.3 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8770NH 0601000	305 MT	17.237 KG	CHROME		3 #18 LDPO FS NHFRPO
8770NH 060500	152 MT	9.752 KG	CHROME	C	3 #18 LDPO FS NHFRPO

Notes:

C = CRATE REEL PUT-UP.

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