



**Product:** [8777NH](#)

Audio, Control & Instrument, #22-3pr, PO, Individ. Foil, LSZH Jkt, CMG-LS

## Product Description

Audio, Control & Instrument Cable, 22 AWG stranded (7x30) tinned copper conductors, polypropylene insulation, 3 twisted pairs each individually Beldfoil® shielded (100% coverage), 22 AWG stranded tinned copper drain wire each pair, LSZH jacket.

## Technical Specifications

### Product Overview

Environmental Space:	Indoor - Euroclass B2ca
Suitable Applications:	Instrumentation and computer cable; For data transmission applications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	7x30	TC - Tinned Copper	0.03 mm	3

Conductor Count:	6
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#### Insulation

Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
PP - Polypropylene	1.27 mm	0.05 mm	0.01 in

#### Color Chart

Number	Color
Pair 1	Black & Red
Pair 2	Black & White
Pair 3	Black & Green

Color Chart1, Table Note:	Shielded pairs
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#### Color Chart 2

Number	Color
Pair 1	Red
Pair 2	Green
Pair 3	Blue

#### Inner Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]	Thickness of Foil	Drainwire Material	Drainwire AWG
Tape	1	Aluminum / Polyester	Z-fold®	100 %	9 / 12 µm	Tinned copper	AWG22/7
		Polyester tape					

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH / FRNC (UV stabilised)	7.00 mm	0.89 mm

### Construction and Dimensions

#### Stranding

**Twists**

6.86 twist/ft

**Cabling****Description**

3 wires twisted to cable core

**Electrical Characteristics****Conductor DCR**

Individual Pair Nominal Shield DCR	Nominal Conductor DCR	Nominal Inner Shield DCR
10.6 Ohm/1000ft	49.2 Ohm/km	34.8 Ohm/km

**Capacitance**

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
98.4 pF/m	180.4 pF/m

**Inductance**

Nominal Inductance	Nominal Pair Inductance
0.18 µH/ft	0.59 µH/m

**Impedance**

Nominal Characteristic Impedance
50 Ohm

**Delay**

Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
66 ns/100m	66 %

**Current**

Element	Max. Recommended Current [A]
Conductor	2 A

**Voltage**

UL Voltage Rating	Voltage Rating [V]
300 V RMS (CMG)	300 V

**Temperature Range**

Installation Temp Range:	-15°C To +80°C
UL Temp Rating:	80°C
Storage Temp Range:	-45°C To +80°C
Operating Temp Range:	-20°C To +80°C
Operating Temp Range (Flexible Install):	-15°C To +80°C
Operating Temp Range (Fixed Install):	-45°C To +80°C

**Mechanical Characteristics**

Oil Resistance:	IEC 60811-404
Bulk Cable Weight:	42 lbs/1000ft
Max Recommended Pulling Tension:	358 N
Min Bend Radius During Installation:	70 mm
Min Bend Radius/Minor Axis:	2.75 in

**Standards**

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
CPR Euroclass:	B2ca-s1,d1,a1
CENELEC Compliance:	EN 50290-2-27
Other Specification:	UL AWM 21088

**Applicable Environmental and Other Programs**

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

EU RoHS Compliance Date (yyyy-mm-dd):	2005-08-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Indoor:	Yes
Suitability - Non-Halogenated:	Yes

## Flammability, LSOH, Toxicity Testing

C(UL) Flammability:	FT4
UL Flammability:	UL1685 FT4 Loading
ISO/IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero
UL voltage rating:	300 V RMS (CMG)

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

### Variants

Item #	Color	Length
8777NH.001000	Chrome	1,000 m
8777NH.00152	Chrome	152 m
8777NH.00305	Chrome	305 m
8777NH.00500	Chrome	500 m
8777NH.K0305	Chrome	305 m

## History

Update and Revision:	Revision Number: 0.241 Revision Date: 09-02-2019
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