

**Part Number: 8471NH**

Audio, Control and Instrumentation Cable 300 V +80 °C, Unshielded



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**Product Description**

AWG16 (19xAWG29) tinned copper

**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	No. of Pairs
16	19x29	TC - Tinned Copper	1

Conductor Count:	2
Total Number of Pairs:	1
Conductor Size:	16 AWG

**Insulation**

Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
FRPE - Flame Retardant Polyethylene	2.67 mm	0.05 mm	0.018 in

**Color Chart**

Number	Color
Pair 1	Black & White

**Inner Shield Material**

Material
Unshielded

**Inner Jacket Material**

Nominal Wall Thickness
0.89 mm

**Outer Shield Material**

Material
Unshielded

**Outer Jacket Material**

Material	Color	Nominal Diameter	Nominal Wall Thickness
LSZH / FRNC (UV stabilised)	Chrome (like RAL 7037)	7.1 mm	0.89 mm

**Construction and Dimensions**

**Stranding**

Twists
6 twist/ft

## Cabling

Description
1 pair covered with a polyester foil

## Electrical Characteristics

### Conductor DCR

Nominal Conductor DCR
14.7 Ohm/km

### Capacitance

Nom. Capacitance Conductor to Conductor
52 pF/m

### Inductance

Nominal Inductance	Nominal Pair Inductance
0.17 µH/ft	0.62 µH/m

### Current

Element	Max. Recommended Current [A]
Conductor	7.1 A

### Voltage

UL Voltage Rating	Voltage Rating [V]
300 V RMS	300 V

## Temperature Range

Installation Temp Range:	-15°C To +80°C
Storage Temp Range:	-45°C To +80°C
Operating Temp Range:	-20°C To +75°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:	32 lbs/1000ft
Max Recommended Pulling Tension:	127 N
Min Bend Radius During Installation:	71 mm
Min Bend Radius/Minor Axis:	2.5 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:	BS 7655 section 6.1 table 1, LTS 3

## 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):	2005-01-01

## Suitability

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

## Flammability, LS0H, 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

## Plenum/Non-Plenum

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

### Variants

Item #	Color	Length
8471NH.01500	Blue	500 m
8471NH.001000	Chrome	1,000 m
8471NH.001500	Chrome	1,500 m
8471NH.00152	Chrome	152 m
8471NH.00305	Chrome	305 m
8471NH.00500	Chrome	500 m
8471NH.K01000	Chrome	1,000 m
8471NH.K0305	Chrome	305 m
8471NH.K0500	Chrome	500 m
8471NH.00153	Chrome	153 m
8471NH.021000	Green	1,000 m
8471NH.031000	White	1,000 m
8471NH.03500	White	500 m

## History

Revision Number: 5
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