




**Product:** [7701NH](#) 

LonWorks, 1PR #22 Sol BC, PO ins, Unsh, LSNH Jkt, 300V, Dca

## Product Description

LonWorks, 1 Pair AWG 22 Bare Copper - Solid, Polyolefin (PO, PE, PP) insulation, Unshielded shielding, LSZH / FRNC jacket , 300V, CPR Dca

## Technical Specifications

### Product Overview

Suitable Applications:	LonWorks, instrumentation, Low capacitance
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### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	Solid	BC - Bare Copper	0.64 mm	1

Conductor Count:	2
Total Number of Pairs:	1

#### Insulation

Material	Nominal Diameter	Diameter +/- Tolerance	Min. Wall Thickness
PE - Polyethylene	1.17 mm	0.05 mm	0.23 mm

#### Color Chart

Number	Color
Pair 1	White/Blue & Blue/White

Table Notes:	Ring marking applied
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#### Outer Shield

Material
No Shield

#### Outer Jacket

Material	Nominal Diameter	Diameter +/- Tolerance	Min. Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	3.5 mm	0.4 mm	0.45 mm

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR
55 Ohm/km

#### Capacitance

Nom. Capacitance Conductor to Conductor
46 pF/m

#### Impedance

Frequency [MHz]	Nominal Characteristic Impedance
1 - 20	100 Ohm

## High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
0.772 MHz	1.3 dB/100m
1 MHz	1.5 dB/100m
4 MHz	3.1 dB/100m
10 MHz	4.9 dB/100m
16 MHz	6.3 dB/100m
20 MHz	6.9 dB/100m

## Current

Element	Max. Recommended Current [A]
Conductor(s)	2.5 Amps per Conductor

## Voltage

Voltage Rating [V]
300 V

## Temperature Range

Operating Temperature Range:	-15°C To +80°C
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## Mechanical Characteristics

Bulk Cable Weight:	15.9 kg/km
Max. Pull Tension:	50 N
Min. Bend Radius During Installation:	80 mm

## Standards

CPR Euroclass:	Dca-s2,d1,a1
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## Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Dca
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## Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2, IEC 60332-3-24
IEC 60754-1 - Halogen Amount:	Zero
IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 - Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 - Smoke Density Min. Transmittance:	60%

## Related Part Numbers

### Variants

Item #	Color	Put-Up Type	Length	EAN
7701NH.01305	White	Reel	305 m	8719605013408
7701NH.00500	White	Reel	500 m	8719605013392

## History

Update and Revision:	Revision Number: 0.241 Revision Date: 06-28-2024
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