



Product: 7704NH ☑

LonWorks, 2PR #22 Sol BC, PO ins, OS, LSNH Jkt, 300V

## **Product Description**

LonWorks, 2 Pair AWG 22 Bare Copper - Solid, Polyolefin (PO, PE, PP) insulation, Foil(s) or Copper Tape(s) shielding, LSZH / FRNC jacket , 300V

### **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	Solid	BC - Bare Copper	0.64 mm	2
Conductor Count:			4	
Total Number of Pairs:			2	

#### Insulation

Material	Nominal Diameter	Min. Wall Thickness
FPE - Foamed Polyethylene	1.35 mm	0.3 mm

## Color Chart

Number	Color
Pair 1	White/Blue & Blue/White
Pair 2	Orange/White & White/Orange

Color Chart1, Table Note: Ring marking applied

#### **Outer Shield Material**

Type	Material	Coverage [%]	Drainwire	Material	Drainwire Diameter	Drainwire AWG
Tape	Aluminum/Polyester	100 %	TC - Tinne	ed Copper	0.51 mm	24
Outer Shield Table Note:				Aluminum	inside	

#### **Outer Jacket Material**

Material	Nominal Diameter	Diameter +/- Tolerance	Min. Wall Thickness
LSZH / FRNC	6.5 mm	0.4 mm	0.5 mm

#### **Construction and Dimensions**

### Cabling



### **Electrical Characteristics**

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
55 Ohm/km	17 Ohm/km

### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
40 pF/m	65 pF/m

#### Inductance

# Nominal Pair Inductance

#### Impedance

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

#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss	Nom. NEXT [dB]
0.772 MHz	1.8 dB/100m	
1 MHz	2 dB/100m	59 dB
4 MHz	3.6 dB/100m	50 dB
10 MHz	5.5 dB/100m	44 dB
16 MHz	7 dB/100m	41 dB
20 MHz	7.8 dB/100m	40 dB

#### Current

Element	Max. Recommended Current [A]
Conductor	2.5 A

## Voltage



## **Temperature Range**

Operating Temp Range:	-15°C To +80°C

## **Mechanical Characteristics**

Bulk Cable Weight:	40.2 kg/km
Max Recommended Pulling Tension:	50 N
Min Bend Radius During Installation:	80 mm

## **Standards**

CPR Euroclass:	B2ca-s1,d1,a1
Other Specification:	BS 7655 section 6.1 table 1, LTS 3

## **Applicable Environmental and Other Programs**

EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01

## Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

### **Part Number**

#### Variants

Item #	Color	Length
7704NH.001020	White	1,020 m
7704NH.00305	White	305 m
7704NH.00500	White	500 m
7704NH.K0305	White	305 m

# History

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