



Product: <u>7703NH</u> ☑

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

# **Product Description**

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

## **Technical Specifications**

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Product Overview									
Suitable Applications:					LonWorks, in	strumentation, Low	capacita	nce	
Phys	ical Char	acteristics	s (Overall)						
			,						
Condu						_			
AWG				l Diamete		'S			
22	Solid	BC - Bare Co	opper 0.64 mm	1	1				
Condu	uctor Count:				2				
Total I	Number of Pa	airs:			1				
Insulat	ion								
	Material	Nom	inal Diameter	Diamete	r +/- Toleranc	e Min. Wall Thic	kness		
PE - P	olyethylene (	(Foam) 1.55	mm	0.05 mm		0.4 mm			
Color (	hart								
		Color							
Number Color Pair 1 White/Blue & Blue/White									
Table Notes:					Ring marking	applied			
Outer Shield Material									
Type	Mat	terial	Coverage [%	Drainw	rire Material	Drainwire Diamet	er Draii	nwire AWG	
Таре	Bi-Laminate	(Alum+Poly)	100%	TC - Ti	nned Copper	0.51 mm	24		
Table Notes: Aluminum inside									
Outer Jacket Material									
		Material		No	minal Diamete	er Diameter +/- To	olerance	Min. Wall	Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)			5.2	mm	0.4 mm		0.5 mm		

# **Electrical Characteristics**

## **Conductor DCR**

Nominal Conductor DCR | Nominal Outer Shield DCR 55 Ohm/km | 34 Ohm/km

# Capacitance

 Nom. Capacitance Conductor to Conductor
 Nom. Capacitance Conductor to Shield

 40 pF/m
 80 pF/m

#### Impedance

Frequency [MHz] Nominal Characteristic Impedance

#### High Frequency (Nominal/Typical)

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

#### Current

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

#### Voltage

Voltage Rating [V]

#### **Temperature Range**

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

Bulk Cable Weight:	26.6 kg/km
Max. Pull Tension:	50 N
Min Bend Radius During Installation:	80 mm

## **Standards**

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

## **Applicable Environmental and Other Programs**

Environmental Space:	Indoor - Euroclass Dca
EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01

# Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero

## **Part Number**

## Variants

Item #	Color	Putup Type	Length	EAN
7703NH.00C100	White	Coil	100 m	8719605013477
7703NH.00305	White	Reel	305 m	8719605013453
7703NH.00500	White	Reel	500 m	8719605013460

## **History**

Update and Revision	:	Revision Number: 0.235 Revision Date: 12-22-2020

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