



Part Number: 7703NH

LonWorks Cable Paired Cable 300 V, +80 °C

Product Description

22 AWG, BC Conductors, Foamed Polyethylene Insulation, White LSZH Jacket, Overall Beldfoil Shield, 1 Pair

Technical Specifications

Use

Suitable Applications:	Instrumentation and computer cable; For data transmission applications
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	Solid	Bare copper	0.64 mm	1

Total Number of Conductors:	2
Total Number of Pairs:	1

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance	Min. Wall Thickness
Foam skinned Polyethylene	1.55 mm	0.05 mm	0.4 mm

Color Chart

Number	Color
Pair 1	White/Blue & Blue/White

Color Chart1, Table Note:	Ring marking applied
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Outer Shield Material

Type	Material	Coverage [%]	Drainwire Material	Drainwire Diameter	Drainwire AWG
Tape	Aluminum/Polyester Foil	100 %	Tinned copper	0.51 mm	24

OuterShield1, Table Note:	Aluminum inside in(in)
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Outer Jacket Material

Material	Color	Nominal Diameter	Diameter +/- Tolerance	Min. Wall Thickness
FRNC / LSZH	White (like RAL 9003)	5.2 mm	0.4 mm	0.5 mm

Electrical Characteristics

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
40 pF/m	80 pF/m

Construction and Dimensions

Conductor DCR

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

Impedance

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

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 A

Voltage

Voltage Rating [V]
300 V

Applicable Standards & Environmental Programs

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

Flame Test

ISO/IEC Flammability:	IEC 60332-3-24
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Safety

Amt of Halogen IEC 60754-1 /EN50267-1:	Zero
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Mechanical Characteristics

Operating Temp Range:	-15°C To +80°C
Bulk Cable Weight:	26.6(kg/km)
Max Recommended Pulling Tension:	50(N)
Min Bend Radius During Installation:	80 mm

History

Revision Number:	4
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Variants

Item #	Color
7703NH.00305	WHITE
7703NH.00500	WHITE
7703NH.00C100	WHITE

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