




Product: [7703NH](#) 

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

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

Technical Specifications

Product Overview

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	1

Conductor Count:	2
Total Number of Pairs:	1

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance	Min. Wall Thickness
PE - Polyethylene (Foam)	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
---------------------------	----------------------

Outer Shield Material

Type	Material	Coverage [%]	Drainwire Material	Drainwire Diameter	Drainwire AWG
Tape	Alum / Poly	100 %	TC - Tinned Copper	0.51 mm	24

Outer Shield Table Note:	Aluminum inside
--------------------------	-----------------

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance	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
-----------------	----------------------------------

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

Temperature Range

Operating Temp Range:	-15°C To +80°C
-----------------------	----------------

Mechanical Characteristics

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

Standards

CPR Euroclass:	Dca-s1,d1,a1
Other Specification:	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

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	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: 0.190 Revision Date: 04-08-2020
----------------------	--

© 2020 Belden, Inc
 All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.