



Product Description

22 AWG, BC Conductors, Foamed Polyethylene Insulation, White LSZH Jacket, Unshielded, 2 Pairs

Technical Specifications

Product Overview

Environmental Space:	Indoor - Euroclass Dca
Suitable Applications:	Instrumentation and computer cable; For data transmission applications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diamete	er No. of Pairs
22	Solid	BC - Bare Copper	0.64 mm	2
Condu	ctor Count:		4	
Total Number of Pairs:		2		
Conductor Size:		2	2 AWG	

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance	Min. Wall Thickness
Polyethylene	1.12 mm	0.05 mm	0.23 mm

Color Chart

Number	Color
Pair 1	White/Blue & Blue/White
Pair 2	Orange/White & White/Orange
Color Cha	art1, Table Note:

Outer Shield Material

Material

Unshielded

Outer Jacket Material

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

Construction and Dimensions

Cabling

Description
2 pairs twisted to cable core

Electrical Characteristics

Con	du	ctor	DCR
001	uu	cioi	DOIN

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	Nom. NEXT [dB]
0.772 MHz	1.3 dB/100m	
1 MHz	1.5 dB/100m	59 dB
4 MHz	3.1 dB/100m	50 dB
10 MHz	4.9 dB/100m	44 dB
16 MHz	6.3 dB/100m	41 dB
20 MHz	6.9 dB/100m	40 dB

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:	31.2 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

EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01

Flammability, LS0H, Toxicity Testing

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

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Part Number

Variants	
Item #	l

Item #Color7702NH.00305White7702NH.00U305White

History

Revision Number:

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