



Part Number: 3105ENH

CANopen RS-485/HART, 120 ohm, AWG 22(7), 1 Pair, LSNH

Product Description

CANopen RS-485/HART, PLTC Cable, 120 ohm, AWG 22(7), Stranded, 1 Pair, DMX512 Type

Technical Specifications

Product Overview

Environmental Space:	Indoor
Suitable Applications:	Instrumentation and computer cable. For EIA RS-485 transmissions applications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material
22	7x30	TC - Tinned Copper

Conductor Count:	2
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Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
FHDPE - Foamed High Density Polyethylene	2.2 mm	0.076 mm

Color Chart

Number	Color
wire 1	White & Blue
wire 2	Blue & White

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Foil	1	Aluminum/Polyester	Beldfoil®		TC - Tinned Copper	22
Braid	2	TC - Tinned Copper		65 %		

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH / FRNC	7.2 mm	0.9 mm

OuterJacket1, Table Note:	UV Stabilised
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Construction and Dimensions

Cabling

Description
2 wires + tinned copper drainwire (AWG22)

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
48.2 Ohm/km	9.2 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
36.1 pF/m	68.6 pF/m

Impedance

Frequency [MHz]	Nominal Impedance
1 MHz	120 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	1.64 dB/100m

Delay

Nominal Velocity of Propagation (VP) [%]
78 %

Current

Max. Recommended Current [A]
2.7 A

Voltage

Voltage Rating [V]
300 V

Temperature Range

Installation Temp Range:	-15°C To +80°C
Storage Temp Range:	-45°C To +80°C
Operating Temp Range:	-15°C To +80°C
Operating Temp Range (Fixed Install):	-45°C To +80°C

Mechanical Characteristics

Oil Resistance:	IEC 60811-404
Min Bend Radius (W/o Pulling Strength):	72 mm

Standards

CENELEC Compliance:	EN 50290-2-27
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Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2014-07-09
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Flammability, LSOH, Toxicity Testing

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

Part Number

Variants

Item #	Color	Length
3105ENH.00305	Black	305 m
3105ENH.K0305	Black	305 m

History

Update and Revision:	Revision Number: 0.103 Revision Date: 09-02-2019
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