



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 |
|------------------|---|

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 |
|---------------------------|---------------|

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 |
|---------------------|---------------|

Applicable Environmental and Other Programs

| | |
|---------------------------------------|------------|
| EU RoHS Compliance Date (yyyy-mm-dd): | 2014-07-09 |
|---------------------------------------|------------|

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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