



Product: [YE00905](#)

KNX, 1PR 0.8mm Sol BC, PE ins, OS, LSNH Jkt, Eca

[Request Sample](#)

Product Description

KNX, 1 Pair, 0.8 mm cond diameter, Bare Copper - Solid, Polyethylene insulation, Overall Beldfoil® shielding, LSZH / FRNC jacket , CPR Eca

Technical Specifications

Product Overview

Suitable Applications:	KNX, EIB cable for building management
------------------------	--

Physical Characteristics (Overall)

Conductor

Stranding	Material	Cross Section	Nominal Diameter	No. of Conductors	No. of Pairs
Solid	BC - Bare Copper	0.5 mm ²	0.8 mm	2	1

Conductor Count:	2
------------------	---

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
PE - Polyethylene	1.6 mm	0.05 mm	0.4 mm

Color Chart

Number	Color
Pair 1	Red & Blue

Outer Shield

Type	Material	Material Trade Name	Coverage [%]	Thickness of Foil	Drainwire Material	Drainwire Diameter
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	9 µm	TC - Tinned Copper	0.4 mm

Outer Jacket

Material	Nominal Diameter	Diameter - Tolerance	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	6.0 mm	0.3 mm	1.4 mm

Construction and Dimensions

Cabling

Description
1 pair covered with a polyester foil

Electrical Characteristics

Conductor DCR

Max. Conductor DCR
37.5 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor
50 pF/m

Voltage

Voltage Rating [V]

300 V

Electrical Characteristics Notes: Testvoltage 4 kV, 1 min

Temperature Range

Storage Temperature Range: -30°C to +70°C

Operating Temperature Range: -20°C to +70°C

Mechanical Characteristics

Min. Bend Radius During Installation: 31.5 mm

Min Setting Radius: 63 mm

Standards

CPR Euroclass: Eca

Applicable Environmental and Other Programs

Environmental Space: Indoor - Euroclass Eca

Flammability, LSOH, Toxicity Testing

IEC Flammability: IEC 60332-1-2

IEC 60754-1 - Halogen Amount: Zero

IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity: 2.5 µS/mm

IEC 60754-2 - Halogen Acid Gas Amount - Min. pH: 4.3

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	EAN
YE00905.00100	Green	Reel	100 m	8719605112767
YE00905 005500M	Green	Reel	500 m	6938935085301
YE00905.001000	Green	Reel	1,000 m	8719605112774
YE00905=001000	Green	Reel	1,000 m	8719605161352
YE00905=K01000	Green	Reel	1,000 m	8719605161338
YE00905 0051000M	Green	Reel	1,000 m	6938935086353
YE00905.00500	Green, Dark	Reel	500 m	8719605112781
YE00905=00500	Green, Dark	Reel	500 m	8719605161369
YE00905=K0500	Green, Dark	Reel	500 m	8719605161345

History

Update and Revision: Revision Number: 0.192 Revision Date: 02-15-2024

© 2024 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.