



**Product:** [77906ELW](#)

KNX, 2PR 0.8mm Sol BC, LSZH ins, OS, LSZH Jkt, Cca

## Product Description

KNX, 2 Pairs, 0.8 mm cond diameter, Bare Copper - Solid, LSZH insulation, Overall Beldfoil® shielding, LSZH / FRNC jacket , CPR Cca

## Technical Specifications

### Product Overview

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

### Physical Characteristics (Overall)

#### Conductor

| Stranding | Material         | Nominal Diameter | No. of Pairs |
|-----------|------------------|------------------|--------------|
| Solid     | BC - Bare Copper | 0.8 mm           | 2            |

|                  |   |
|------------------|---|
| Conductor Count: | 4 |
|------------------|---|

#### Insulation

| Material  | Nominal Diameter | Diameter +/- Tolerance | Nominal Wall Thickness |
|---|------------------|------------------------|------------------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 1.6 mm           | 0.05 mm                | 0.4 mm                 |

#### Color Chart

| Number |
|--------|
| Quad 1 |

#### 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 | Nominal Wall Thickness |
|---|------------------|------------------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 6.3 mm           | 1.2 mm                 |

### Construction and Dimensions

#### Cabling

| Description                          |
|--------------------------------------|
| 1 quad covered with a polyester foil |

### Electrical Characteristics

#### Conductor DCR

| Max. Conductor DCR |
|--------------------|
| 37.5 Ohm/km        |

#### Capacitance

| Nom. Capacitance Conductor to Conductor |
|---|
| 70 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: 63 mm

Min Setting Radius: 31 mm

## Standards

CPR Euroclass: Cca-s1,d1,a1

## Applicable Environmental and Other Programs

Environmental Space: Indoor - Euroclass Cca

## Flammability, LS0H, Toxicity Testing

IEC Flammability: IEC 60332-1-2 and IEC 60332-3-24

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           |
|----------------|-------|-------------|--------|---------------|
| 77906ELW.00500 | Green | Reel        | 500 m  | 8719605193520 |

## Product Notes

Notes: KNX REG 109/16282/19

## History

Update and Revision: Revision Number: 0.40 Revision Date: 04-08-2022

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