



Product: [77905ELV](#)

KNX, 1PR 0.8mm Sol BC, LSZH ins, OS, LSZH Jkt, B2ca

Product Description

KNX, 1 Pair, 0.8 mm cond diameter, Bare Copper - Solid, LSZH insulation, Overall Beldfoil® shielding, LSZH / FRNC jacket , CPR B2ca

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 | 1 |

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

Insulation

| Material | Nominal Diameter | Diameter +/- Tolerance | Nominal Wall Thickness |
|---|------------------|------------------------|------------------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 1.8 mm | 0.05 mm | 0.5 mm |

Color Chart

| Number | Color |
|--------|------------|
| Pair 1 | Red & Blue |

Outer Shield

| Type | Material Trade Name | Coverage [%] | Thickness of Foil | Drainwire Material | Drainwire Diameter |
|------|---------------------|--------------|-------------------|--------------------|--------------------|
| Tape | 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) | 6.6 mm | 1.4 mm |

Construction and Dimensions

Cabling

| Description |
|------------------------------------|
| 1 pair covered with a PP foam 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: | 66 mm |
|---------------------------------------|-------|

| | |
|---------------------|-------|
| Min Setting Radius: | 33 mm |
|---------------------|-------|

Standards

| | |
|----------------|---------------|
| CPR Euroclass: | B2ca-s1,d1,a1 |
|----------------|---------------|

Applicable Environmental and Other Programs

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|----------------------|-------------------------|
| Environmental Space: | Indoor - Euroclass B2ca |
|----------------------|-------------------------|

Flammability, LS0H, 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 |
|--|-----|

History

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|----------------------|---|
| Update and Revision: | Revision Number: 0.51 Revision Date: 02-15-2024 |
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