

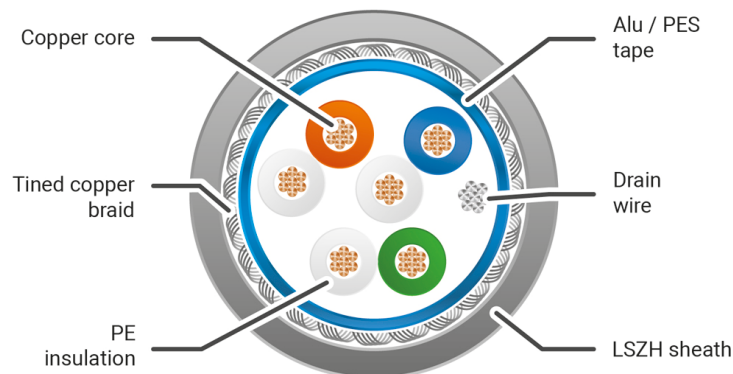
LCAEMPSS324120SHB2

## 3-pair AWG24 120Ω LSZH B2ca s1a d1 a1 shielded grey RS485 Modbus cable



### DESCRIPTION

The LCAE MPSS 324-120 SHB2 cable, PE insulated, low capacitance, grey sheath, LSZH B2ca s1a,d1,a1, is used for control and data transmission per RS485 Modbus. Aluminum shielding and copper braid provide excellent electromagnetic protection. Recommended for high-rise buildings, public access buildings, and infrastructures (tunnels, airports, nuclear sites).



### ADVANTAGES

- Overall shielding with tape and braid
- RS485, Modbus
- 120 Ohm impedance
- LSZH
- CPR B2ca s1a,d1,a1

**AXINDUS**  
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**CONSTRUCTION & TECHNICAL PERFORMANCE**

|                                        |                                                                                                      |
|----------------------------------------|------------------------------------------------------------------------------------------------------|
| Product Type                           | LCAEMPSS324120SHB2                                                                                   |
| Construction (mm <sup>2</sup> )        | 3 x 2 x AWG24                                                                                        |
| Conductor material                     | Tinned copper                                                                                        |
| Conductor cross-section                | AWG24                                                                                                |
| Core gauge                             | AWG24                                                                                                |
| Core composition                       | 7x0.20mm                                                                                             |
| Insulation Material                    | PE                                                                                                   |
| Insulation Identification Method       | White Blue, BlueWhite, OrangeWhite, White Orange, White Green, Green White, White Brown, Brown White |
| Assembly type                          | Pairs                                                                                                |
| Overall Shielding                      | Tinned copper braid + alu/pes tape                                                                   |
| Outer Sheath Material                  | LSZH                                                                                                 |
| Color                                  | Grey                                                                                                 |
| Nom. diameter of the outer sheath (mm) | 4.5                                                                                                  |
| Sealing gel                            | No                                                                                                   |
| Weight (Kg/Km)                         | 82                                                                                                   |

**ELECTRICAL CHARACTERISTICS**

|                                     |           |
|-------------------------------------|-----------|
| Service Voltage (V)                 | 300 V     |
| Test voltage (V)                    | 1.2 kV    |
| Linear electrical resistance (Ω/Km) | ≤ 99 Ω/km |

**TRANSMISSION CHARACTERISTICS**

|                                 |          |
|---------------------------------|----------|
| Propagation speed (%)           | 66       |
| Characteristic Impedance (Ohms) | 120 Ohms |

**MECHANICAL CHARACTERISTICS**

|                                       |            |
|---------------------------------------|------------|
| Bending Radius in Fixed Installation  | 8 x Ø ext  |
| Bending Radius in Mobile Installation | 15 x Ø ext |

**ENVIRONMENTAL CHARACTERISTIC**

|                    |                                                                    |
|--------------------|--------------------------------------------------------------------|
| CPR classification | B2ca s1a, d1, a1                                                   |
| Fire behaviour     | IEC 60332-1, IEC 60332-3-24 Cat. D                                 |
| Fire Behavior Type | Flame retardant<br>IEC 60332-1<br>Fire retardant<br>IEC 60332-3-24 |
| UV Resistance      | NO                                                                 |

**ENVIRONMENTAL CHARACTERISTIC**

|                        |                            |
|------------------------|----------------------------|
| Fixed Use Temperature  | -30°C / +70°C              |
| Mobile Use Temperature | -5°C / +70°C               |
| Halogen-free Standard  | IEC 60754-1/-2 IEC 61034-2 |

**ADDITIONAL INFORMATION**

|                   |               |
|-------------------|---------------|
| Product Packaging | Drum of 1000m |
|-------------------|---------------|