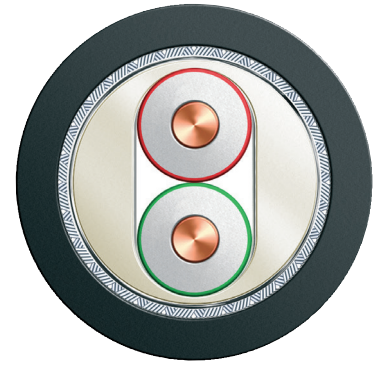


# PROFIBUS PA

ES Cable for Permanent Installation (LSZH)



## Cable Design

### Wire

|            |                                    |           |
|------------|------------------------------------|-----------|
| Conductor  | Solid bare copper wire (18awg)     | Ø 1,05 mm |
| Insulation | Foamed Polyethylene (PE) with skin | Ø 2,55 mm |

### Core

|                  |  |           |
|------------------|--|-----------|
| Pair             | 2 wires twisted to a pair (RD-GN)      |           |
| Tape             | Plastic tape overlapped                |           |
| Easystrip Jacket | Soft Thermoplastic copolymer           | Ø 5,40 mm |
| Screen           | Aluminium foil overlapped              |           |
| Braid            | Tinned copper wire braid, 90% coverage | Ø 6,20 mm |

|              |                               |                 |
|--------------|-------------------------------|-----------------|
| Outer Jacket | Low Smoke Zero Halogen (LSZH) | Ø 8,0 ± 0,40 mm |
|--------------|-------------------------------|-----------------|

## Characteristics

- Flame retardant acc. to IEC 60331-2, IEC 60332-3-24
- Halogen free acc. to IEC 60754-1/2
- Smoke density acc. to IEC 61034
- Oil resistant acc. to UL 758 Sec. 15 (60 °C),
- Sunlight resistant acc. to UL 1581 Sec. 1200,

## Specification

| Part Number     | Type   |
|-----------------|--|
| L45467-J20-C46  | Black PROFIBUS PA ES, cable for permanent installation (easy to strip), 2x18AWG1, UL listed: CM and CL3. LSZH                      |
| L45467-J20-C86  | Blue PROFIBUS PA ES, cable for permanent installation in hazardous Ex-areas (easy to strip), 2x18AWG1, UL listed: CM and CL3, LSZH |
| L45467-J20-C336 | Orange PROFIBUS PA ES, cable for permanent installation (easy to strip), 2x18AWG1, UL listed: CM and CL3. LSZH                     |



# PROFIBUS PA

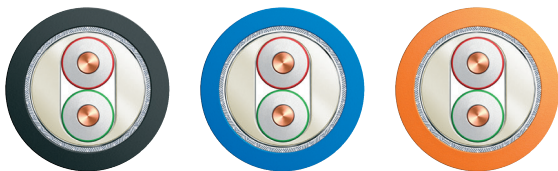
ES Cable for Permanent Installation (LSZH)

## Electrical Data @ 20°C

|   |           |   |        |         |
|---|-----------|---|--------|---------|
| Conductor resistance                            |           | ≤ | 22     | Ohm/km  |
| Insulation resistance                           |           | ≥ | 10     | MOhm*km |
| Capacitance (1 kHz) wire/wire                   |           | ≈ | 50     | nF/km   |
| Capacitance (1 kHz) wire/screen                 |           | ≈ | 92     | nF/km   |
| Characteristic Impedance                        | 31,25 kHz |   | 100±20 | Ohm     |
| Attenuation                                     | 39 kHz    | ≤ | 3      | dB/km   |
| Capacitance unbalance e                         |           | ≤ | 2      | nF/km   |
| Inductance                                      | 31,25 kHz |   | 650    | μH/km   |
| Surface transfer impedance                      | 20 MHz    | ≤ | 5      | mOhm/m  |
| Rel. Velocity of Propagation                    |           | ≈ | 81     | %       |
| Operating voltage                               |           |   | 100    | V       |
| UL-Rating                                       |           |   | 600    | V       |
| Test Voltage (wire/wire/screen rms 50Hz 1 min.) |           |   | 2000   | V       |

## Mechanical & Thermal Characteristics

|                               |          |   |           |       |
|-------------------------------|----------|---|-----------|-------|
| Permissible temperature range |          |   | -20 ~ +80 | °C    |
| Min. Bending radius allowed   | repeated |   | 10        | x Ø   |
| Min. Bending radius allowed   | single   |   | 5         | x Ø   |
| Tensile strength              |          | ≤ | 150       | N     |
| Weight (approx.)              |          |   | 96        | kg/km |



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