

PROFIBUS DP

DataGuard® Armoured (SWA) LSZH

Cable Design

Wire

| | | |
|------------|------------------------------------|-----------|
| Conductor | Solid bare copper wire (22awg) | Ø 0,65 mm |
| Insulation | Foamed Polyethylene (PE) with skin | Ø 2,55 mm |

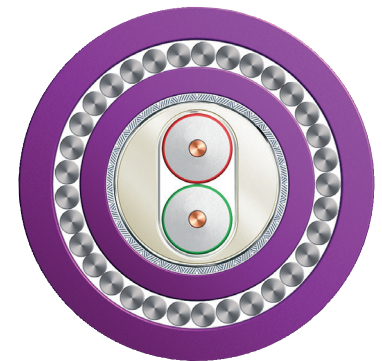
Core

| | | |
|------------------|--|-----------|
| Pair | 2 wires twisted to a pair (RD-GN) | |
| Tape | Plastic tape overlapped | |
| Easystrip Jacket | Soft Thermoplastic copolymer | Ø 5,40 mm |
| Screen | Alulaminat foil overlapped | |
| Braid | Tinned copper wire braid, 55% coverage | Ø 6,20 mm |

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

| | | |
|---------------|-------------------------------------|--|
| Armour | DataGuard® Steel Wire Armour (DSWA) | |
|---------------|-------------------------------------|--|

| | | |
|---------------------|--|-------------------|
| Outer Jacket | LSZH FireFighter®, Violet, Black or Blue | Ø 12,80 ± 0,80 mm |
|---------------------|--|-------------------|



Characteristics

- Indoor/Outdoor applications
- Mechanical protection
- Rodent Protection
- Direct Burial
- UV-Stable and colourfast
- Flame retardant acc. to IEC 60332-3-24
- Halogen Free acc. to IEC 60754-1/2
- Smoke density acc. to IEC 61034-1/2

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Electrical Data @ 20°C

| | | | | |
|-------------------------------------|------------------|---|----------|---------|
| Loop resistance | | ≤ | 110 | Ohm/km |
| Screen resistance | | ≤ | 9,5 | Ohm/km |
| Insulation resistance | | ≥ | 16 | GOhm*km |
| Characteristic Impedance | 3-20 MHz | | 150±15 | Ohm |
| Characteristic Impedance | 31,25 - 38,4 kHz | | 185±18,5 | Ohm |
| Characteristic Impedance | 9,6 kHz | | 270±27 | Ohm |
| Attenuation | 16 MHz | ≤ | 42 | dB/km |
| Attenuation | 4 MHz | ≤ | 22 | dB/km |
| Attenuation | 38,4 kHz | ≤ | 4 | dB/km |
| Attenuation | 9,6 kHz | ≤ | 2,5 | dB/km |
| L/R Ratio | | ≤ | 15 | μH/Ohm |
| Inductance Value | | | 900 | μH/km |
| Capacitance (1 kHz) | | ≈ | 28,5 | nF/km |
| Unbalance to ground | | ≤ | 1500 | pF/km |
| Operating voltage (effective value) | | ≤ | 100 | V |
| UL-Rating | | | 600 | V |
| Rel. Velocity of Propagation | | ≈ | 81 | % |
| Test Voltage (DC 3 sec) | | = | 3600 | V |

Mechanical & Thermal Characteristics

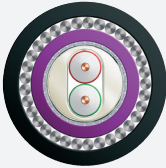
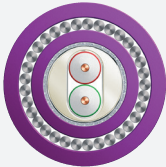
| | | |
|-------------------------------|-----------|-----------------------|
| Permissible temperature range | -25 ~ +80 | °C |
| Min. Bending radius | 10 | x Ø (see Ø tolerance) |
| Weight (approx.) | 362 | kg/km |

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Specification

| Part Number | Cross Section | Type |
|----------------------|---|---|
| 14L45467-G16-C286-01 |  | Black PROFIBUS DP ES, cable for permanent installation (easy to strip, LSZH), 2x22AWG1, DataGuard® (SWA) / LSZH FireFighter® |
| 14L45467-G16-C286-02 |  | Blue PROFIBUS DP ES, cable for permanent installation (easy to strip, LSZH), 2x22AWG1, DataGuard® (SWA) / LSZH FireFighter® |
| 14L45467-G16-C286-09 |  | Violet PROFIBUS DP ES, cable for permanent installation (easy to strip, LSZH), 2x22AWG1, DataGuard® (SWA) / LSZH FireFighter® |

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