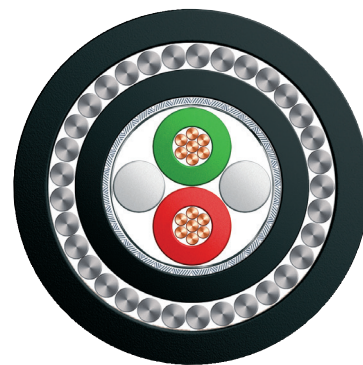


DataGuard® (SWA)

PROFIBUS PA Long Distance Cable FR-PVC



Cable Design

Wire

| | | |
|------------|---------------------------------|-----------|
| Conductor | Solid bare copper wire 7/0,50mm | (16awg) |
| | Solid bare copper wire 7/0,64mm | (14awg) |
| Insulation | Polyethylene (PE) | Ø 3,20 mm |

Core

| | |
|--------------|---|
| Pair | 2 wires twisted to a pair (RD-GN) with fillers |
| Tape | Plastic tape overlapped |
| Screen | Aluminium foil overlapped |
| Braid | Tinned copper wire braid, 85% coverage |
| Inner Jacket | Flame Retardant Polyvinylchloride (FR-PVC) |
| Diameter | 16AWG : Ø 9,50 ± 0,30 mm 14AWG : Ø 11,50 ± 0,30 mm |

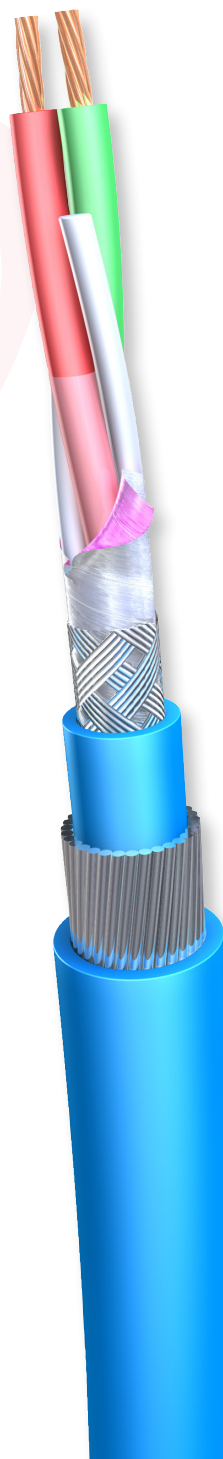
Armour

DataGuard® Steel Wire Armour (DSWA)

Outer Jacket

Flame Retardant Polyvinylchloride (FR-PVC)

| | |
|----------|--|
| Diameter | 16AWG : Ø 13,30 ± 0,30 mm 14AWG : Ø 15,30 ± 0,30 mm |
|----------|--|



Characteristics

- Indoor/Outdoor applications
- Mechanical protection
- Rodent Protection
- Direct Burial
- UV-Stable and colourfast
- Flame retardant acc. to IEC 60332-1

DataGuard® (SWA)

PROFIBUS PA Long Distance Cable FR-PVC

Electrical Data @ 20°C

| | | 16 AWG | 14 AWG |
|---------------------------------|-----------|-----------------|-----------------|
| Max. Conductor DC Resistance | | ≤ 13,3 Ohm/km | ≤ 17,5 Ohm/km |
| Shield resistance | | ≤ 7,0 Ohm/km | ≤ 8,0 Ohm/km |
| Min. Insulation Resistance | | 5 GOhm*km | 5 GOhm*km |
| Max. Capacitance (800 Hz) | | 60 nF/km | 60 nF/km |
| Characteristic Impedance | 31,25 kHz | 100±20 Ohm | 100±20 Ohm |
| Max. Attenuation | 39 kHz | ≤ 2,6 dB/km | ≤ 2,7 dB/km |
| Nom. Attenuation | 100 kHz | ≤ 3,5 dB/km | ≤ 3,8 dB/km |
| Nom. Attenuation | 1 MHz | ≤ 13,8 dB/km | ≤ 14,0 dB/km |
| Inductance | 31,25 kHz | 0,7 mH/km | 0,7 mH/km |
| Dielectric strength (c/c - c/s) | | 2,5 kVac 1 min. | 2,5 kVac 1 min. |
| Max. Voltage rating (peak) | | 300 V | 300 V |

Mechanical & Thermal Characteristics

| | |
|-------------------------------|--------------------------|
| Permissible temperature range | -40 ~ +80 °C |
| Min. Bending radius | 10 x Ø (see Ø tolerance) |
| Weight (approx.) | - kg/km |

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PROFIBUS PA Long Distance Cable FR-PVC

Specification

| Part Number | Cross Section | Type |
|----------------|---|--|
| 11231P16211-01 |  | Black PROFIBUS PA ES, cable for permanent installation (easy to strip), 2x16AWG7. DataGuard® (SWA) / FR-PVC |
| 11231P14211-01 |  | Black PROFIBUS PA ES, cable for permanent installation (easy to strip), 2x14AWG7. DataGuard® (SWA) / FR-PVC |
| 11231P16211-02 |  | Blue PROFIBUS PA ES, cable for permanent installation in hazardous Ex-areas (easy to strip), 2x16AWG7. DataGuard® (SWA) / FR-PVC |
| 11231P14211-02 |  | Blue PROFIBUS PA ES, cable for permanent installation in hazardous Ex-areas (easy to strip), 2x14AWG7. DataGuard® (SWA) / FR-PVC |

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