

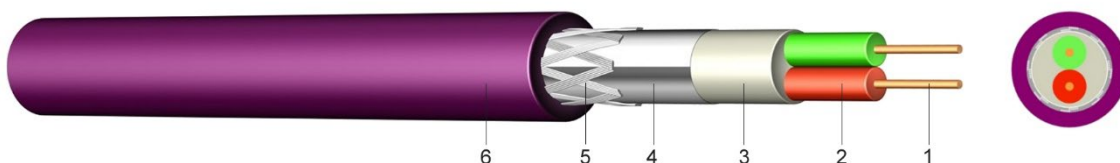
## Profibus DP FC LSZH UV Cca

Bus cable, 150 Ω  
+80 °C service temperature, collective screen, fire retardant, oil and UV resistant  
IEC 61158-2, DIN 19245 T3, EN 50170 and EN 50575

### Application

Zero halogen PROFIBUS cable with improved fire characteristics. Zero halogen cables are suitable for installation in environments where smoke and toxic fumes may threaten life or valuable equipment. These cables are suitable for PROFIBUS DP (Decentralized Peripherals) as well as PROFIBUS FMS (Fieldbus Message Specification) and FIP (Factory Instrumentation Protocol) applications. For fixed installation in industrial environments. UV-resistant for installation indoors and outdoors. Fast Connect (FC) cable design for easy installation together with the appropriate tools and connectors.

### Construction



- |                      |   |
|----------------------|---|
| 1. Conductor:        | Copper conductor, bare, solid                   |
| 2. Insulation:       | Foam-Skin-PE                                    |
| Core identification: | Green, red                                      |
| 3. Core covering:    | Filler  |
| 4. Screen:           | Laminated Alu/PETP tape                         |
| 5. Braid:            | Tinned copper wire braid (80% optical coverage) |
| 6. Outer sheath:     | Zero halogen, violet similar to RAL 4001        |

### Technical information

Operating voltage max.		125 V
Test voltage		1000 V
Operating temperature	fixed installation	-25 °C to 80 °C
	during installation	0 °C to 50 °C
Min. bending radius mm	fixed installation	5 x outer diameter in mm
	during installation	10 x outer diameter in mm
Max. tensile strength		100 N
<b>Safety parameters</b>		
Reaction to fire		EN 50399 C <sub>ca</sub> – s1a, d1, a1
Flame spread	single cable	IEC 60332-3-1
	bunched cables	IEC 60332-3-24
Zero halogen		IEC 60754-1 /-2
Smoke density		IEC 61034-1/ -2
<b>Additional parameters</b>		
UV resistance		DIN EN ISO 4892-2 – EN 50289-4-17 (720 h)
Oil resistance		IEC 60811-2-1 (IRM 902, 4h at 70°C)
UL Style		AWM 21279 80° 600V
RoHS 2011/65/EU		

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### Electrical properties at 20 °C

Characteristic impedance	max.	150 Ω ± 15
Loop resistance	max.	110 Ω/km
Insulation resistance	min.	5 G Ω/km · km
Operating capacity	nom.	30 nF / km
Screen resistance	max.	9,5 Ω/km
Coupling resistance at 10 MHz	max.	< m10 Ω
Nominal Velocity of Propagation	max.	79 %

f MHz	Attnuation dB/km	Impedance Ω
0,0096	2,5	250 ± 25
0,0384	4,0	185 ± 18
4	22,0	150 ± 15
16	42,0	150 ± 15
20	45,0	150 ± 15

N° of cores and cross section mm <sup>2</sup>	Outer diameter approx. mm	Weight approx. kg/km
1 x 2 x 0,64mm (AWG 22/1)	8,0	72

La version française de cette fiche technique est disponible sur demande.  
De technische gegevens zijn op aanvraag in het Nederlands beschikbaar.