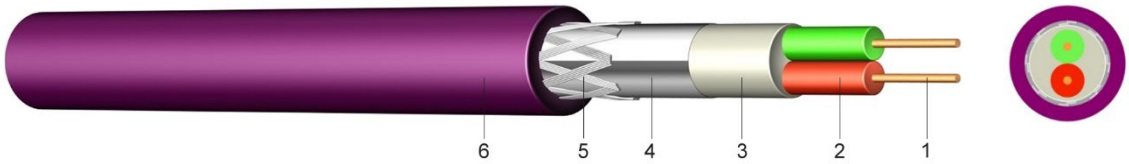
Profibus DP LSZH UV Cca

Bus cable, 100 V
+80 °C service temperature, collective screen, fire retardant, UV resistant
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), Profibus FMS (Fieldbus Message Specification) and also for FIP (Factory Instrumentation Protocol) applications.

Construction



1.	Conductor:	Copper conductor, bare, solid
2.	Insulation:	PE
	Core identification:	Green, red
3.	Core covering:	Tape or filler (optional)
4.	Screen:	Laminated Alu/PETP tape
5.	Braid:	Tinned copper wire braid
6.	Outer sheath:	LSZH, purple

Technical information

Operating voltage max.		100 V
Test voltage		3600 V DC
Max. permissible temperature at conductor		70 °C
Operating temperature	fixed installation	-25 °C to 80 °C
Min. bending radius mm	fixed installation	15 x outer diameter in mm

Safety parameters

Reaction to fire		EN 50399 C_{ca} – s1, d2, 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

Additional parameters

UV resistance		UL1581

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Electrical properties at 20 °C

Loop resistance	max.	110 Ω/km
Screen resistance	max.	9,5 Ω/km
Insulation resistance	min.	16 G Ω/km
Impedance at f = 3-20 MHz	max.	150 ± 15 Ω
Attenuation at 16 MHz	max.	42 dB/km
Attenuation at 4 MHz	max.	22 dB/km
L/R ratio	max.	15 µH/Ω
Inductance	max.	900 µH/km
Capacitance at 1 kHz	max.	28,5 nF/km
Rel. Velocity of propagation	max.	81 %

N° of cores and cross section mm²	Outer diameter approx. mm	Weight approx. kg/km
1 x 2 x 0,64mm (AWG 22/1)	7,9	72

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

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