WILBAflex Mine

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Robust and compact polyurethane cable (EPR/-PUR) halogen-free

Application

WILBAflex Mine is designed for the strictest requirements for safety and ruggedness in mining and industry. The arrangement of the earth conductors makes it especially compact. Finely stranded wires give it maximum flexibility for optimum handling. Moreover, WILBAflex Mine is a relatively lightweight cable. The core insulation made of a durable ethylene-propylene (EPR) mixture and the sheath made of polyurethane (PUR) are halogen-free and each have excellent fire safety properties. On request, these properties can be boosted even further through the use of FRNC (flame-retardant non-corrosive) materials; for instance, to prevent the development of smoke, the spreading of fire and the formation of corrosive gases in the event of underground fires.

Materials and components

- Cu conductor bare class 5 (IEC 60228), finely stranded
- Core insulation made of cross-linked EPR
- Core colours per CENELEC HD 308 S2
- Cores stranded in optimal length of lay
- Outer sheath made of polyurethane (PUR)

Jacket colour

- Yellow similar to RAL 1021
- Other colours on request

Functions

- Abrasion resistance
- Flexible
- Halogen-free
- Oil and petrol resistance

Environmental conditions

- Good resistance at high and low temperatures
- Hydrolysis-resistant
- Flexible at low temperatures
- Microbe-resistant
- Ozone- and weather-resistant
- Very good roll-over properties

Performance

Mechanical properties
- Max. tensile load 20N/mm2 Cu cross-section
- Min. bending radius 10 x D (D = cable Ø)

Nominal voltage
- Nominal voltage [AC]: Uo / U 600 V / 1,000 V

Test voltage
- Test voltage [AC]: 3,500 V / 50 Hz

Temperature range
- Mobile: -5°C ... +90°C
- Fixed laying: -40°C ... +90°C
- Occasionally mobile: -25°C ... +90°C
- Capable of carrying current for short time up to 110°C

Standards

- Based on SEV TP20B/3C
- Based on EN 50525-2-51
- IEC 60754-1 Halogen-free
- IEC 60754-2 Corrosivity of fumes

CPR Guideline
- Fire reaction class acc. EN 13501-6 : Fca

Remarks

- Other types upon request

Technical data

Cross-section mm²	Part no.	Conductor code	Ø D mm	Copper index kg/km	Weight kg/km	loaded conductor acc. VDE 0298 part 4 A
3X16 + 3G4	31825	3LPE	21.8 ± 0.4	576	760	82
3X25 + 3G4	31826	3LPE	24.2 ± 0.4	835	1035	106
3X35 + 3G6	31827	3LPE	28.6 ± 0.4	1181	1455	135
3X50 + 3G10	31828	3LPE	32.9 ± 0.4	1728	2070	168
3X70 + 3G16	31829	3LPE	38.0 ± 0.5	2477	2890	207
3X95 + 3G16	31830	3LPE	42.7 ± 0.5	3197	3580	250
3X95 + 3G16 (FE0)	31834	3LPE	42.7 ± 0.5	3197	3585	250
3X120 + 3G25	31831	3LPE	48.5 ± 0.5	4176	5140	292
3X185 + 3G35 + 2X2.5	31836	3LPE + 2L	59.3 ± 0.7	6384	7750	382

Subject to change without notice

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