WILBAflex EMC, FRNC/PUR

312

CH-S1Z1C4Q-F

Halogen-free, hardly combustible, shielded control cable EMC

Application

The black WILBAflex EMC, FRNC/PUR is a shielded control cable for use in areas where especially strict requirements are placed on fire protection. The core insulation is made of polyolefin (EVA) and the sheath of polyurethane (PUR) which does not release any corrosive gases in the event of fire thanks to the use of FRNC (flame-retardant non-corrosive) materials. The sheath is also flame-proof per IEC standard. Despite its elaborate structure and a tinned copper mesh for electromagnetic shielding (EMC), WILBAflex EMC, FRNC/PUR offers optimum handling. WILBAflex EMC, FRNC/PUR is suitable for indoor and outdoor applications. Thanks to its stranding, it absorbs high tensile forces.

Materials and components

- Cu conductor bare class 5 (IEC 60228), finely stranded
- Core insulation made of polyolefin (EVA-FRNC)
- Core colours BK numbered and GN/YE
- Cores stranded in optimum lay length with central tension element
- Shielding from Al-laminated film and tinned drain wire
- Outer sheath made of flame-resistant polyurethane (PUR-FRNC)

Jacket colour

- Black similar to RAL 9005

Functions

- Abrasion resistance
- Flexible
- Halogen-free

Environmental conditions

- Hydrolysis-resistant
- Microbe-resistant
- Ozone- and weather-resistant
- UV radiation-resistant

Performance

Mechanical properties
- Max. tensile load 20N/mm2 Cu cross-section
- Min. bending radius 5 x D static, 12 x D dynamic (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, 5 min.

Temperature range
- Fixed laying: -40°C ... +90°C
- Occasionally mobile: -25°C ... +90°C
- Laying temperature: -5°C ... +60°C

Standards

- Based on HD 604 S1-H5
- Based on SEV TP20B/3C
- IEC 60332-1-2 Flame retardancy
- IEC 60332-3-24 No fire propagation
- IEC 60754-1 Halogen-free
- IEC 60754-2 Corrosivity of fumes

CPR Guideline
- Fire reacton class acc. EN 13501-6: Eca

Remarks

- d1=Ø across core
- D= total Ø

Technical data

Cross-section mm²	Part no.	Conductor code	Ø d1 mm	Ø D approx. mm	Copper index kg/km	Weight kg/km
33G1.5	231837	32Lnum+PE	19.2	23.1	584.5	955
37X1.5	231842	37Lnum	20.1	24.5	645.4	1103
41G1.5	231848	40Lnum+PE	22.4	26.8	743.0	1260

Subject to change without notice

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