

PURWIL, single-core, EPR/PUR

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CH-S1BQ-F

Flexible single-conductor polyurethane cable EPR/PUR

The PURWIL single-conductor cable is ideally suitable as a flexible, easy-to-lay cable in mechanical and plant engineering and for transformers. Thanks to finely stranded copper cores, it can be optimally laid through limited installation spaces. The cable meets international fire safety standards with respect to flame retardancy, freedom from halogen and thus also the corrosivity of fumes. The sheath is made of polyurethane (PUR), the core insulation of a durable ethylene-propylene (EPR) mixture. The single-conductor cable is available in all customary cross-sections and designed for use in the temperature range from -40°C to +90°C.

Materials and components

- Cu conductor bare class 5 (IEC 60228), finely stranded
- Core insulation made of cross-linked EPR
- Outer sheath made of polyurethane (PUR)

Jacket colour

- Grey similar to RAL 7011

Functions

- Abrasion resistant
- Flexible
- Halogen-free
- High mechanical strength
- Oil and petrol resistance

Environmental conditions

- Good resistance at high and low temperatures
- Hydrolysis- and microbe-resistant
- Ozone- and weather-resistant
- UV radiation-resistant

Performance

Mechanical properties

- Max. tensile load 20N/mm² Cu cross-section
- Min. bending radius 6 x D static, 15 x D dynamic (D = cable Ø)

Nominal voltage

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

Temperature range

- Mobile: -5°C ... +90°C
- Fixed laying: -40°C ... +90°C
- Occasionally mobile: -25°C ... +90°C
- In event of short-circuit, +250°C for 1 sec.
- Capable of carrying current for short time up to 110°C

Standards

- Based on EN 50525-2-51
- IEC 60754-1 Halogen-free
- IEC 60754-2 Corrosivity of fumes
- Fire reaction class acc. EN 13501-6 : Fca

Remarks

d1=Ø across copper cord
d2=Ø across first inner sheath
D= total Ø



Technical data

Cross-section mm ²	Part no.	Conductor code	Conductor colour	Ø d1 approx. mm	Ø d2 mm	Ø D mm	Cu-number kg/km	Weight kg/km
1X2.5 vzi	523027	L	orange	2.1	5.1 ± 0.2	7.1 ± 0.2	24.0	59
1X4 vzi	23804	L	without	2.7		6.0 ± 0.2	38.4	63
1X16	23820	L	black	5.0	7.4 ± 0.2	9.4 ± 0.3	153.6	183
1G16	23821	PE	green/yellow	5.0	7.4 ± 0.2	9.4 ± 0.3	153.6	183
1X25	23825	L	black	6.4	9.2 ± 0.2	11.4 ± 0.3	240.0	280
1G25	23826	PE	green/yellow	6.4	9.2 ± 0.2	11.4 ± 0.3	240.0	280
1X50	23835	L	black	9.4	12.6 ± 0.3	15.0 ± 0.3	480.0	524
1G50	23836	PE	green/yellow	9.4	12.6 ± 0.3	15.0 ± 0.3	480.0	524
1X70	23840	L	black	11.3	14.5 ± 0.3	17.1 ± 0.3	672.0	721
1G70	23841	PE	green/yellow	11.3	14.5 ± 0.3	17.1 ± 0.3	672.0	721
1X95	23068	L	black	13.1	16.7 ± 0.3	19.5 ± 0.4	912.0	940
1G95	23846	PE	green/yellow	13.1	16.7 ± 0.3	19.5 ± 0.4	912.0	940
1X120	23850	L	black	14.8	18.4 ± 0.3	21.4 ± 0.4	1152.0	1294
1G120	23851	PE	green/yellow	14.8	18.4 ± 0.3	21.4 ± 0.4	1152.0	1294
1X150	23855	L	black	16.7	20.7 ± 0.3	23.9 ± 0.4	1440.0	1618

Low Voltage Cables

Cross-section mm ²	Part no.	Conductor code	Conductor col- our	Ø d1 approx. mm	Ø d2 mm	Ø D mm	Cu-number kg/km	Weight kg/km
1G150	23856	PE	green/yel- low	16.7	20.7 ± 0.3	23.9 ± 0.4	1440.0	1618
1X185	23860	L	black	17.6	22.0 ± 0.3	25.4 ± 0.4	1776.0	1952
1G185	23861	PE	green/yel- low	17.6	22.0 ± 0.3	25.4 ± 0.4	1776.0	1952
1X240	23865	L	black	20.3	25.1 ± 0.3	28.9 ± 0.4	2304.0	2395
1G240	23867	PE	green/yel- low	20.3	25.1 ± 0.3	28.9 ± 0.4	2304.0	2395
1X300	23870	L	black	24.0	29.2 ± 0.3	33.4 ± 0.4	2880.0	3205
1X400	23868	L	black	28.0	33.6 ± 0.3	38.2 ± 0.5	3840.0	4022