

PURWIL, single-core, EPR/PUR

S1BQ-F

Flexible single-conductor polyurethane cable EPR/PUR

The PowerFlex 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

Performance

- Mechanical Performance: min. bending radius: with tensile $8 \times D$, without tensile $6 \times D$
- Nominal voltage U_0/U 600/1000 V

Temperature range

- -40°C ... +90°C
- In case of short-circuit, +250°C (max. 5 sec.)
- Capable of carrying current for short time up to 130°C (8h/day and 100h/year)

Standards

IEC 60228 Cu-conductor cl.5
Based on EN 50525-2-51, HD603 S1
IEC 60754-1 Halogen free
IEC 60754-2 No corrosive gases

Remarks

$d_1 = \varnothing$ across copper cord
 $d_2 = \varnothing$ across first inner sheath
 $D =$ total \varnothing
Brugg Cables AG also provides the appropriate accessories.



Technical data

Cross-section mm ²	Part no.	Conductor code	Conductor colour	Ø d1 approx. mm	Ø d2 mm	Ø D mm	Weight kg/km
1X50	24001	L	black	9.4	12.6	15.0	524
1G50		PE	green/yellow	9.4	12.6	15.0	524
1X95	24002	L	black	13.1	16.7	19.5	940
1G95		PE	green/yellow	13.1	16.7	19.5	940
1X120	24003	L	black	14.8	18.4	21.4	1294
1G120		PE	green/yellow	14.8	18.4	21.4	1294
1X150	24004	L	black	16.7	20.7	23.9	1618
1G150		PE	green/yellow	16.7	20.7	23.9	1618
1X185	24005	L	black	17.6	22.0	25.4	1952
1G185		PE	green/yellow	17.6	22.0	25.4	1952
1X240	24006	L	black	20.3	25.1	28.9	2395
1G240		PE	green/yellow	20.3	25.1	28.9	2395
1X300	24007	L	black	24.0	29.2	33.4	3205
1X400		L	black	28.0	33.6	38.2	4022