

PURWIL Trafo-Cable, coated (TN-C)

S1BQ-F

Flexible symmetric arranged, stranded polyurethane cable 4 x 1 (EPR/PUR)

- wrapped
- Sheath PUR

Decisive advantages

- **Massive improvement in the EMC** of the entire electrical installation
- No induction currents in adjacent metal structures and data cable
- **Low EMF radiation**
- No "noise" effects
- Perfect symmetric system
- Fewer conduction losses
- Low short-circuit forces

Application

- Non-inductive and electromagnetic radiation poor secondary output line for transformers
- Hospital, office, commercial and industrial buildings
- Research and Development
- Pharmaceuticals and Chemicals
- Public buildings
- Data processing service centre
- Generally, from about 150A current load

Construction

- Copper cord flex, cl. 5 (IEC 60228) finely stranded
- EPR insulation, crosss-linked, black, numbered
- symmetric stranded

Description

- Nominal voltage U_0/U 600/1000 V
- Min. bending radius: with tensile 8 x D, permanent installation 6 x D
- Test voltage [AC]: 3,500 V, 50 Hz, 5 min.
- Max. tensile load 20N/mm² Cu cross-section

Temperature range

-40° ... +90°C
In case of short-circuit, +250°C (max. 5 sec.)

Jacket colour

Grey similar to RAL 7011

Standards

IEC 60228 Cu-conductor cl.5
Core based on DIN VDE 0250-602 SEV TP20B/3C, HD 603 S1
IEC 60332-1-2 Flame retardant
IEC 60754-1 Halogen free
IEC 60754-2 No corrosive gases
CPR Fire reacton class acc. EN 13501-6: Eca

Remarks

Brugg Cables AG also provides the appropriate accessories.



Technical data

Cross-section mm ²	Part no.	Conductor colour	Ø d1 approx. mm	Ø D approx. mm	Weight kg/km	Combustion energy MJ/m
4x150	23500	black	20.7	57.3	6860	54.7
4x185	23501	black	22.0	58.4	8190	63.7
4x240	23502	black	25.1	65.3	9980	75.7
4x300	23503	black	29.2	74.0	13176	95.0

Electrical data (max. current when laying in air at 30°C)

Cross-section mm ²	AC resistance by 60°C, 50 Hz Ω/km	Reactance at 50 Hz Ω/km	Impedance Z by 60°C, 50 Hz Ω/km	Max. charge Core temp. by 60°C A	Max. charge Core temp. by 90°C A
4x150	0.146	0.080	0.167	285	405
4x185	0.117	0.080	0.142	327	463
4x240	0.090	0.080	0.120	388	549
4x300	0.073	0.080	0.108	440	624

For higher current loads several lines may be parallel laid.