

PURWIL, orange, flex, EPR/PUR

520_2_0

Robust and flexible polyurethane cable (EPR/PUR)

Application

- Apparatus and mechanical engineering
- Outdoors
- Construction industry
- Construction zones
- Chemical industry
- For indoor and outdoor applications
- Apparatus engineering
- Large construction zones
- Inner sheath
- Connection of motors

The bright orange PURWIL cable is the right choice for connecting machines and equipment under extreme conditions or outdoors. Thanks to the large number of alternative core cross-sections and core configurations, it is suitable for a wide variety of purposes up to 750 V nominal voltage. The finely stranded, flexible cable is extremely resistant to wear and breakage and to acid and oil. These properties predestine it for daily, harsh use at construction zones, in industry or in mechanical engineering. The colour, labelling and alternative cable configurations can be individually tailored. The outer sheath and core insulation for PURWIL PUR/PUR are made of halogen-free polyurethane (PUR).

Materials and components

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

Jacket colour

- Orange similar to RAL 2004
- Other colours on request

Functions

- Abrasion resistant
- Flexible
- Good oil and petrol resistance
- Halogen-free

Environmental conditions

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

Performance

Mechanical properties

- Max. tensile load 20N/mm² Cu cross-section
- Min. bending radius 10 x D static, 15 x D dynamic (D = cable Ø)

Nominal voltage

- Nominal voltage [AC]: U₀ / U 600 V / 1,000 V

Test voltage

- Test voltage [AC]: 3,500 V, 50 Hz, 5 min.

Temperature range

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

Standards

- SEV TP20B/3C
- IEC 60754-1 Halogen-free
- IEC 60754-2 Corrosivity of fumes

CH-S1BQ-F



Technical data

Cross-section mm ²	Part no.	Conductor code	Ø D approx. mm	Cu-number kg/km	Weight kg/km
4G25	521316	3LPE ¹	29.5	960.0	1366
5G25	521317	3LNPE	33.0	1200.0	1667
4G35	521318	3LPE ¹	33.5	1344.0	1840
5G35	521319	3LNPE	37.5	1680.0	2310
4G50	521320	3LPE ¹	39.4	1920.0	2570
5G50	521321	3LNPE	43.8	2400.0	3210
4G70	521322	3LPE ¹	44.2	2688.0	3590
5G70	521323	3LNPE	49.5	3360.0	4480
4G95	521324	3LPE ¹	51.2	3648.0	4850
5G95	521325	3LNPE	57.2	4560.0	6060
4G120	521326	3LPE ¹	57.0	4608.0	6000

¹ 2LNPE only for definite applications

Bigger cable constructions on request, until 5x150 mm².