

# PURWIL, yellow flex, EPR/PUR, HAR

H05BQ-F / H07BQ-F

Robust and flexible polyurethane cable (EPR/-PUR)

The bright yellow 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 cable flexible at low temperatures is resistant to wear, acid and oil. These properties predestine it for daily, harsh use at construction zones, in industry or in mechanical engineering. The labelling can be individually tailored on request. The halogen-free EPR/PUR low-voltage cable is resistant to short-term exposure to heat up to 110°C and has core insulation made of a durable ethylene-propylene (EPR) mixture and a sheath made of polyurethane (PUR).

### Materials and components

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

### Jacket colour

- Yellow similar to RAL 1021

### Functions

- Abrasion resistant
- Flexible
- Good oil and petrol resistance
- Halogen-free
- Cable is suitable for spiralling

### Environmental conditions

- Excellent ozone- and weather-resistant properties
- Good resistance at high and low temperatures
- Hydrolysis-resistant
- Flexible at low temperatures
- Microbe-resistant
- Saltwater-resistant
- Very good roll-over properties
- UV radiation-resistant

### Performance

Mechanical properties

- Max. tensile load 20N/mm<sup>2</sup> Cu cross-section
- Min. bending radius 5 x D static, 12 x D dynamic (D = cable Ø)

Nominal voltage

- Nominal voltage [AC] ≤ 1 mm<sup>2</sup>: U<sub>0</sub> / U 300 V / 500 V; ≥ 1.5 mm<sup>2</sup>: U<sub>0</sub> / U 450 V / 750 V

Test voltage

- Test voltage [AC] ≤ 1 mm<sup>2</sup>: 2,000 V / 50 Hz, ≥ 1.5 mm<sup>2</sup>: 3,500 V / 50 Hz

Temperature range

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

### Standards

- EN 50525-2-21:11
- IEC 60754-1 Halogen-free
- IEC 60754-2 Corrosivity of fumes
- IEC 60228 Conductors of insulated cables
- Fire reaction class acc. EN 13501-6 : Fca

### Remarks

Made in Switzerland  
Other types upon request



### Technical data

Cross-section mm <sup>2</sup>	Part no.	Conductor code	Ø D mm	Cu-number kg/km	Weight kg/km
3G1	523200	LNPE	7.2 ± 0.2	28.8	67
3G1.5	523201	LNPE	8.9 ± 0.2	43.2	100
4G1.5	523202	3LPE	9.9 ± 0.2	57.6	125
5G1.5	523203	3LNPE	10.9 ± 0.3	72.0	148
7G1.5	523204	6LnumPE <sup>1</sup>	13.5 ± 0.3	100.8	208
3G2.5	523205	LNPE	10.4 ± 0.2	72.0	146
4G2.5	523206	3LPE	11.6 ± 0.3	96.0	184

## Low Voltage Cables

Cross-section mm <sup>2</sup>	Part no.	Conductor code	Ø D mm	Cu-number kg/km	Weight kg/km
5G2.5	523207	3LNPE	12.8 ± 0.3	120.0	224
4G4	523208	3LPE	13.4 ± 0.3	153.6	274
5G4	523209	3LNPE	15.0 ± 0.3	192.0	337
4G6	523210	3LPE	15.5 ± 0.4	230.4	381
5G6	523211	3LNPE	17.1 ± 0.4	288.0	466
4G10	523212	3LPE	20.3 ± 0.4	384.0	645
5G10	523213	3LNPE	22.4 ± 0.4	480.0	785
4G16	523214	3LPE	22.7 ± 0.4	614.4	927
5G16	523215	3LNPE	25.2 ± 0.4	768.0	1140

<sup>1</sup>No "HAR" type