

PUR-C-PUR Cu-screened, extrem conditions, halogen-free, EMC-preferred type



HELUKABEL PUR-C-PUR 5G1,5 QMM / 22367 1000 V 001042055

CE

RoHS

Technical data

- Special PUR control cables, screened, adapted to DIN VDE 0250
- **Temperature range**
-40°C to +80°C
- **Nominal voltage**
U₀/U 300/500 V until 1mm
U₀/U 450/750 V from 1,5mm
- **Test voltage**
until 1mm 2000 V
from 1,5mm 2500 V
- **Insulation resistance**
min. 20 MΩm x km
- **Mutual capacitance** (800 Hz)
core/core approx. 150 pF/m
core/screen approx. 320 pF/m
- **Minimum bending radius**
flexing 10x cable Ø
fixed installation 5x cable Ø
- **Radiation resistance**
up to 100x10⁶ cJ/kg (up to 100 Mrad)
- **Coupling resistance**
max. 250 Ωm/km

Cable construction

- Bare copper, fine wire conductors, bunch stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Special PUR insulation
- Core identification according to DIN VDE 0293-308
- Green-yellow earth core (3 cores and above)
- Cores stranded in layers with optimal lay-length
- Foil taped
- Copper braided screening with 80-85% coverage
- PUR outer jacket
- Colour grey (RAL 7032)

Properties

- High flexibility at low temperatures
- High abrasion resistance
- Break and cut resistant
- Tear resistant
- **Resistant to**
Oils and fats
Coolant and chemicals
Non-alcoholic fuels and kerosene
Atmospheric influences
UV-radiation
Oxygene and ozone
Microbes and rotting
Sea and waste water
Vibrations
Acids and Lyes
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Note

- G = with green-yellow earth core;
x = without green-yellow earth core (0).
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

PUR-C-PUR screened cables are well suited as data transfer and connection cables for the machine and motor industries due to the good level of copper screening which blocks strong electrical disturbances.

This cable type has proven to be especially suited to use in extreme weather and environmental conditions due to its good thermal and chemical properties. (Temperature range -40°C to +80°C). In addition to this it also possesses excellent mechanical properties, e.g. pressure resistance and good abrasive resistant qualities, all of which go to guarantee a long life.

EMC = Electromagnetic compatibility

To optimise the EMC features we recommend a large round contact of the copper braiding on both ends.

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Part No.	No. cores x cross-sec. mm ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
22315	2 x 0,75	6,7	28,0	65,0	18
22316	3 G 0,75	7,2	50,0	80,0	18
22317	4 G 0,75	7,7	57,0	95,0	18
22318	5 G 0,75	9,1	70,0	126,0	18
22319	6 G 0,75	9,5	71,0	150,0	18
22339	2 x 1	7,5	32,0	80,0	17
22340	3 G 1	7,7	56,0	95,0	17
22341	4 G 1	8,4	66,0	106,0	17
22342	5 G 1	9,5	95,0	149,0	17

Part No.	No. cores x cross-sec. mm ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
22364	2 x 1,5	8,8	43,0	101,0	16
22365	3 G 1,5	9,0	71,0	125,0	16
22366	4 G 1,5	9,6	86,0	150,0	16
22367	5 G 1,5	11,0	104,0	210,0	16
22385	2 x 2,5	10,1	96,0	142,0	14
22386	3 G 2,5	10,3	146,0	169,0	14
22387	4 G 2,5	11,8	150,0	225,0	14
22388	5 G 2,5	12,7	200,0	275,0	14

Dimensions and specifications may be changed without prior notice.