

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



Technical data

- Special PUR control cables, screened, adapted to DIN VDE 0250
- **Temperature range**
-40°C to +80°C
- **Nominal voltage**
up to 1 mm² U₀/U 300/500 V
from 1,5 mm² U₀/U 450/750 V
- **Test voltage**
to 1 mm² 2000 V
from 1,5 mm² 2500 V
- **Insulation resistance**
min. 20 MOhm x km
- **Mutual capacitance** (800 Hz)
core/core approx. 150 pF/m
core/screen approx. 320 pF/m
- **Coupling resistance**
max. 250 Ohm/km
- **Minimum bending radius**
flexing 10x cable Ø
fixed installation 5x cable Ø
- **Radiation resistance**
up to 100x10⁶ cJ/kg (up to 100 Mrad)

Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Aderisolation aus special PUR
- Core identification to DIN VDE 0293-308
- GN-YE conductor, 3 cores and above
- Cores stranded in layers with optimal lay-length
- Core wrapping with foil
- Tinned copper braided screen, approx. 85% coverage
- PUR outer sheath
- Sheath colour grey (RAL 7032)
- with meter marking

Properties

- High flexibility at low temperatures
- High abrasion resistance
- Break and cut resistant
- Tear resistant
- Halogen-free
- **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 conductor
x = without green-yellow conductor (O).
- 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 optimize 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 2006/95/EC.

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
22315	2 x 0,75	6,8	40,0	65,0	19
22316	3 G 0,75	7,2	52,0	80,0	19
22317	4 G 0,75	8,0	60,0	95,0	19
22318	5 G 0,75	8,6	71,0	126,0	19
22319	6 G 0,75	9,5	80,0	150,0	19
22339	2 x 1	7,2	50,0	80,0	18
22340	3 G 1	7,8	60,0	95,0	18
22341	4 G 1	8,4	71,0	106,0	18
22342	5 G 1	9,5	88,0	149,0	18

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
22364	2 x 1,5	8,6	63,0	101,0	16
22365	3 G 1,5	9,3	80,0	125,0	16
22366	4 G 1,5	10,1	97,0	150,0	16
22367	5 G 1,5	11,2	119,0	210,0	16
22385	2 x 2,5	10,4	96,0	142,0	14
22386	3 G 2,5	11,0	144,0	169,0	14
22387	4 G 2,5	12,2	148,0	225,0	14
22388	5 G 2,5	13,6	181,0	275,0	14

Dimensions and specifications may be changed without prior notice. (RA02)