

DATAPUR-C EMC-preferred type, Cu-screened, PUR-outer jacket



HELUKABEL DATAPUR-C 7x0,34 QMM / 52516 500 V 001042057

CE

RoHS

Technical data

- Special PVC/PUR control cable, adapted to DIN VDE 0245, 0281
- **Temperature range**
flexing -5°C to +80°C
fixed installation -40°C to +80°C
- **Nominal voltage**
0,14 mm² 350 V
as of 0,25 mm² 500 V
- **Test voltage**
0,14 mm² 800 V
as of 0,25 mm² 1200 V
- **Insulation resistance**
min. 20 MΩm x km
- **Mutual capacitance** core/core:
up to 0,34 mm² approx. 120 nF/km
as of 0,5 mm² approx. 160 nF/km
- **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
- structure of conductors bei 0,35 mm² = 7 x 0,25 mm²
- Special PVC core insulation TI2, to DIN VDE 0281 part 1
- Cores colour coded to DIN 47100
- Cores stranded in layers with optimal lay-length
- Foil taped
- Tinned copper braided screen, approx. 85% coverage
- PUR outer sheath TPU to DIN VDE 0282 part 1, appendix A
- Sheath colour grey (RAL 7032)

Properties

- Chemical resistance: good against acids, lyes, hydraulic liquids
- High flexibility at low temperature
- High abrasion resistance
- **Resistant to**
Oils and fats
Non-alcoholic fuels and kerosene
Atmospheric influences
UV-radiation
Oxygene and ozone
Microbes and rotting
Sea and waste water
Vibrations
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

The specific construction of DATAPUR-C makes this cable type ideal for use in all types of computer systems, office machinery, signal and control units.

DATAPUR-C has uses that go beyond this for example in the field of acoustics, e.g. in telephone systems, intercoms as well as in all areas involving accurate control of weights and measurements. This cable type is noted for its excellent mechanical performance in humid to wet conditions. External high frequency interference is screened out by the tinned copper braiding. These cables are extremely tear and abrasive resistant.

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.
52490	2 x 0,14	4,2	12,3	21,0	26
52491	3 x 0,14	4,4	14,0	25,0	26
52492	4 x 0,14	4,7	15,7	29,0	26
52493	5 x 0,14	5,0	19,5	35,0	26
52494	7 x 0,14	5,3	23,4	41,0	26
52495	10 x 0,14	6,4	28,5	54,0	26
52496	12 x 0,14	6,7	34,3	64,0	26
52497	14 x 0,14	7,0	39,9	74,0	26
52498	18 x 0,14	7,7	51,5	93,0	26
52499	21 x 0,14	8,2	60,1	108,0	26
52500	25 x 0,14	8,8	71,9	128,0	26
52501	2 x 0,25	4,5	14,7	26,0	24
52502	3 x 0,25	4,7	17,1	33,0	24
52503	4 x 0,25	5,0	20,6	38,0	24
52504	5 x 0,25	5,4	24,8	44,0	24
52505	7 x 0,25	5,8	31,1	53,0	24
52506	10 x 0,25	7,2	42,0	79,0	24
52507	12 x 0,25	7,7	51,0	92,0	24
52508	14 x 0,25	8,1	60,1	105,0	24
52509	18 x 0,25	9,0	77,9	128,0	24
52510	21 x 0,25	9,9	91,4	148,0	24
52511	25 x 0,25	11,8	110,8	175,0	24

Part No.	No. cores x cross-sec. mm ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
52512	2 x 0,34	5,1	17,0	33,0	22
52513	3 x 0,34	5,3	20,7	42,0	22
52514	4 x 0,34	5,7	24,7	48,0	22
52515	5 x 0,34	6,2	30,1	57,0	22
52516	7 x 0,34	7,0	38,2	77,0	22
52517	10 x 0,34	8,8	63,1	111,0	22
52518	12 x 0,34	9,2	74,2	128,0	22
52519	14 x 0,34	9,6	85,3	144,0	22
52520	18 x 0,34	10,4	107,4	175,0	22
52521	21 x 0,34	11,0	124,1	200,0	22
52522	25 x 0,34	11,9	147,0	233,0	22
52523	2 x 0,5	5,4	23,2	38,0	20
52524	3 x 0,5	5,7	30,1	51,0	20
52525	4 x 0,5	6,2	35,4	58,0	20
52526	5 x 0,5	6,8	52,6	77,0	20
52527	7 x 0,5	7,3	65,3	93,0	20
52528	10 x 0,5	9,4	88,8	134,0	20
52529	12 x 0,5	9,8	101,9	155,0	20
52530	14 x 0,5	10,4	115,1	175,0	20
52531	18 x 0,5	11,1	141,2	214,0	20
52532	21 x 0,5	11,9	161,1	245,0	20
52533	25 x 0,5	12,8	187,9	285,0	20

Dimensions and specifications may be changed without prior notice.