



Technical data

- Special-PVC control cable adapted to DIN VDE 0285-525-2-51 / DIN EN 50525-2-51
- **Temperature range**
flexing -15°C to +80°C
fixed installation -40°C to +80°C
- **Nominal voltage**
up to 1,5 mm² U₀/U 300/500 V
from 2,5 mm² U₀/U 450/750 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
min. 20 MOhm x km
- **Mutual capacitance**
acc. to different cross-sections
0,5 up to 2,5 mm²:
core/core approx. 150 nF/km
core/screen approx. 270 nF/km
- **Coupling resistance**
max. 250 Ohm/km
- **Minimum bending radius**
flexing 10x cable Ø
fixed installation 5x cable Ø
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper, fine wire conductors, bunch stranded to DIN VDE 0295 cl.5, BS 6360 cl.5 and IEC 60228 cl.5
- Core insulation of special PVC compound type Z 7225
- Core identification to JB/OB colour code
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layers with optimal lay-length
- Inner sheath of PVC
- Tinned copper braided screen, approx. 85% coverage
- Outer sheath of special PVC
- Sheath colour transparent
- with meter marking

Properties

- Extensively oil resistant, oil-/chemical resistance see table Technical Informations
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Tests

- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

Note

- G = with green-yellow conductor
x = without green-yellow conductor (OB).
- by 5 cores with VDE-Reg. No.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- unscreened analogue type:

JB-500

JB-750

Application

For use as a data and control cable in machinery, computer systems etc. as well as a signal cable for electronics. The high level of screening ensures a high degree of interference protection. The screening density assures disturbance-free transmission of all signals and impulses. The PVC-inner sheaths of those cables raise the mechanical stress. The applied clear transparent PVC outer sheath accentuates the optical view of the tinned copper braid. These cables are suitable for flexible use for medium mechanical stresses with free movements. The dense screening assures disturbance-free transmission of all signals and impulses. An ideal disturbance-free control cable for the above application.

EMC = Electromagnetic compatibility

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

CC = The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

DKSH Part No.	Supplier Part no.	No.cores x cross-sec.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
PC2X0.5CY	16121	2 x 0.5	7.0	41.0	67.0	20
PC3G0.5CY	16122	3 G 0.5	7.3	45.0	83.0	20
PC4G0.5CY	16123	4 G 0.5	7.9	54.0	94.0	20
PC5G0.5CY	16124	5 G 0.5	8.4	66.0	108.0	20
PC2X0.75CY	16125	2 x 0.75	7.7	46.0	87.0	19
PC3G0.75CY	16126	3 G 0.75	8.0	57.0	98.0	19
PC4G0.75CY	16127	4 G 0.75	8.5	63.0	113.0	19
PC5G0.75CY	16128	5 G 0.75	9.3	76.0	130.0	19
PC2X1CY	16129	2 x 1	8.0	54.0	97.0	18
PC3G1CY	16130	3 G 1	8.3	64.0	103.0	18
PC4G1CY	16131	4 G 1	9.0	76.0	146.0	18
PC5G1CY	16132	5 G 1	9.7	89.0	169.0	18
PC2X1.5CY	16133	2 x 1.5	8.6	64.0	130.0	16
PC3G1.5CY	16134	3 G 1.5	9.2	82.0	152.0	16
PC4G1.5CY	16135	4 G 1.5	9.8	99.0	168.0	16
PC5G1.5CY	16136	5 G 1.5	10.8	123.0	202.0	16

DKSH Part No.	Supplier Part no.	No.cores x cross-sec.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
PC2X2.5CY	16137	2 x 2.5	11.1	110.0	180.0	14
PC3G2.5CY	16138	3 G 2.5	11.6	148.0	216.0	14
PC4G2.5CY	16139	4 G 2.5	12.7	169.0	267.0	14
PC5G2.5CY	16140	5 G 2.5	14.1	220.0	347.0	14
PC2X4CY	16141	2 x 4	13.3	124.0	302.0	12
PC3G4CY	16142	3 G 4	14	178.0	340.0	12
PC4G4CY	16143	4 G 4	15.3	234.0	410.0	12
PC5G4CY	16144	5 G 4	16.7	284.0	502.0	12
PC2X6CY	16145	2 x 6	14.7	176.0	350.0	10
PC3G6CY	16146	3 G 6	15.6	245.0	450.0	10
PC4G6CY	16147	4 G 6	17	316.0	559.0	10
PC5G6CY	16148	5 G 6	18.6	442.0	702.0	10
PC2X10CY	16149	2 x 10	18	260.0	500.0	8
PC3G10CY	16150	3 G 10	19	367.0	750.0	8
PC4G10CY	16151	4 G 10	21.1	549.0	1020.0	8
PC5G10CY	16152	5 G 10	23.1	604.0	1115.0	8

Y-CY-JB flexible, Cu-screened, transparent, EMC-preferred type, meter marking



DKSH Part No.	Supplier Part no.	No.cores x cross- sec.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG- No.
PC4G16CY	16153	4 G 16	25.3	807	1380	6
PC5G16CY	16154	5 G 16	28	940	1553	6
PC4G25CY	16469	4 G 25	31.1	1169	1890	4
PC5G25CY	16155	5 G 25	34.3	1420	2270	4
PC4G35CY	16470	4 G 35	33.9	1680	2390	2
PC5G35CY	16156	5 G 35	37.8	2020	2885	2

DKSH Part No.	Supplier Part no.	No.cores x cross- sec.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
PC4G50CY	16471	4 G 50	40.1	2370.0	3315.0	1
PC5G50CY	16119	5 G 50	45.0	2880.0	4150.0	1
PC4G70CY	16472	4 G 70	46.0	3257.0	4600.0	2/0
PC4G95CY	16473	4 G 95	51.2	4060.0	6060.0	3/0
PC4G120CY	16474	4 G 120	56.3	5231.0	7315.0	4/0
PC4G150CY	16247	4 G 150	64.7	7760.0	9340.0	300 kcmil
PC4G185CY	16319	4 G 185	69.5	8104.0	11120.0	350 kcmil

Dimensions and specifications may be changed without prior notice. (RA01)