



## Technical data

- Special PVC control cables
- Requirements adapted to DIN VDE 0281, 0293, 0295 and IEC 60227-5
- to H05VV-F VDE 0281 part 5 and IEC 60227-5 Type 60227 IEC 57
- **Temperature range**  
flexing -5°C to +80°C  
fixed installation -40°C to +80°C
- **Nominal voltage** U<sub>0</sub>/U 450/750 V
- fixed installation, under protection U<sub>0</sub>/U 600/1000 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**  
min. 20 MΩm x km
- **Minimum bending radius**  
flexing 7,5x cable Ø  
fixed installation 4x cable Ø
- **Radiation resistance**  
up to 80x10<sup>6</sup> cJ/kg (up to 80 Mrad)

## Cable structure

- Bare copper, fine wire conductors, to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Special PVC core insulation TI2, to DIN VDE 0281 part 1
- Cores colour coded as per JB/OB colour code
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal lay-length
- Special PVC outer sheath TM2, to DIN VDE 0281 part 1
- Colour grey (RAL 7001)
- with meter marking, change-over in 2009

## Properties

- Extensively oil resistant
- Chemical Resistance - see table Technical Informations
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- 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 (OB).
- Cleanroom qualification tested with analog type. Please note "cleanroom qualified" when ordering.
- **screened analogue type:**  
**Y-CY-JB**, see page A 38

## Application

These cables are used for flexible use for medium mechanical stresses with free movement without tensile stress or forced movements in dry, moist and wet rooms but not suitable for open air, as measuring and control cables in tool machinery, conveyor belts, production lines, as well as in machinery production, in air-conditioning and steel production plants. The earth core is located immediately below the outer jacket. JB cables are suitable for use in all electrical equipment either in dry or damp areas. They should not, however, be installed in the open air.

CE – The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.	Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
11161	2 x 2,5	9,1	48,0	130,0	14	11134	5 G 16	23,0	768,0	1259,0	6
11162	3 G 2,5	9,9	72,0	164,0	14	11135	7 G 16	31,0	1075,0	1780,0	6
11163	3 x 2,5	9,9	72,0	164,0	14						
11164	4 G 2,5	11,0	96,0	200,0	14	11155	3 G 25	23,3	720,0	1388,0	4
11165	4 x 2,5	11,0	96,0	200,0	14	11136	4 G 25	26,0	960,0	1581,0	4
11166	5 G 2,5	12,0	120,0	247,0	14	11137	5 G 25	29,0	1200,0	1997,0	4
11167	5 x 2,5	12,0	120,0	247,0	14						
11168	6 G 2,5	13,3	144,0	301,0	14	11156	3 G 35	26,6	1008,0	1767,0	2
11169	7 G 2,5	14,6	168,0	321,0	14	11138	4 G 35	29,7	1344,0	2105,0	2
						11139	5 G 35	33,1	1680,0	2636,0	2
11121	2 x 4	10,4	76,8	195,0	12						
11144	3 G 4	11,2	115,0	235,0	12	11157	3 G 50	30,2	1440,0	2556,0	1
11122	4 G 4	12,5	154,0	295,0	12	11140	4 G 50	33,9	1920,0	2940,0	1
11123	5 G 4	13,9	192,0	361,0	12	11145	5 G 50	37,6	2400,0	3936,0	1
11124	7 G 4	16,8	269,0	498,0	12						
11125	11 G 4	22,3	422,0	767,0	12	11158	3 G 70	37,1	2016,0	3182,0	2/0
						11141	4 G 70	41,6	2688,0	4090,0	2/0
11126	3 G 6	12,6	173,0	355,0	10	11146	5 G 70	46,3	3360,0	5443,0	2/0
11127	4 G 6	14,0	230,0	424,0	10						
11128	5 G 6	15,5	288,0	525,0	10	11159	3 G 95	40,1	2736,0	4676,0	3/0
11129	7 G 6	19,0	403,0	625,0	10	11142	4 G 95	44,8	3648,0	5540,0	3/0
						11147	5 G 95	50,2	4560,0	6931,0	3/0
11153	3 G 10	16,0	290,0	611,0	8						
11130	4 G 10	18,0	384,0	701,0	8	11160	3 G 120	45,5	3456,0	5630,0	4/0
11131	5 G 10	20,0	480,0	858,0	8	11143	4 G 120	50,8	4608,0	7000,0	4/0
11132	7 G 10	23,1	672,0	1106,0	8						
						11148	4 G 150	57,0	5760,0	8340,0	300 kcmil
11154	3 G 16	18,5	461,0	912,0	6						
11133	4 G 16	20,8	614,0	1035,0	6	11149	4 G 185	65,8	7104,0	9904,0	350 kcmil

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