



Technical data

- Special PVC control cables, adapted to E DIN VDE 0245, 0281 part 13
- **Conductor resistance** to DIN VDE 0295
- **Temperature range** flexing -5°C to +80°C fixed installation -40°C to +80°C
- **Nominal voltage** U_0/U 300/500 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance** min. 20 MOhm x km
- **Mutual capacitance** according to different cross-sections 0,5 mm² 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 Z 7225
- Black cores with continuous white numbering to DIN VDE 0295
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal lay-length
- Special PVC inner sheath
- Tinned copper, braided screen, approx. 85% coverage
- Transparent special PVC outer sheath
- 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 VDE 0482-332-1-2, DIN EN 60332-1-2/ 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 (OZ).
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- **unscreened analogue type: JZ-500**, see page A 6

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 disturbancefree 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.

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 2006/95/EG.

Part No.	No. cores x cross-sec. mm ²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.	Part No.	No. cores x cross-sec. mm ²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
16200	2 x 0,5	6,9	41,0	67,0	20	16223	2 x 0,75	7,6	46,0	87,0	18
16201	3 G 0,5	7,2	45,0	83,0	20	16224	3 G 0,75	7,8	57,0	98,0	18
16202	4 G 0,5	7,8	54,0	94,0	20	16225	4 G 0,75	8,3	63,0	113,0	18
16203	5 G 0,5	8,3	66,0	108,0	20	16226	5 G 0,75	9,1	76,0	130,0	18
16204	6 G 0,5	9,0	73,0	125,0	20	16227	6 G 0,75	9,6	82,0	156,0	18
16205	7 G 0,5	9,5	79,0	136,0	20	16228	7 G 0,75	10,4	100,0	184,0	18
16206	8 G 0,5	10,2	82,0	150,0	20	16229	8 G 0,75	11,1	112,0	221,0	18
16207	10 G 0,5	11,2	107,0	170,0	20	16230	10 G 0,75	12,2	140,0	270,0	18
16208	12 G 0,5	11,3	137,0	195,0	20	16231	12 G 0,75	12,5	175,0	292,0	18
16209	14 G 0,5	11,9	142,0	223,0	20	16232	14 G 0,75	13,0	190,0	315,0	18
16210	16 G 0,5	12,6	147,0	250,0	20	16233	16 G 0,75	13,8	204,0	335,0	18
16211	18 G 0,5	13,1	156,0	277,0	20	16234	18 G 0,75	14,3	240,0	358,0	18
16212	20 G 0,5	13,8	173,0	310,0	20	16235	20 G 0,75	15,2	262,0	420,0	18
16315	21 G 0,5	14,5	189,0	331,0	20	16316	21 G 0,75	15,8	274,0	454,0	18
16213	24 G 0,5	15,2	236,0	390,0	20	16236	24 G 0,75	16,8	291,0	480,0	18
16214	25 G 0,5	15,7	250,0	407,0	20	16237	25 G 0,75	17,4	306,0	508,0	18
16215	30 G 0,5	16,0	297,0	520,0	20	16238	27 G 0,75	17,6	326,0	535,0	18
16216	32 G 0,5	16,9	312,0	550,0	20	16239	30 G 0,75	18,1	340,0	640,0	18
16217	36 G 0,5	17,4	320,0	585,0	20	16240	32 G 0,75	18,7	349,0	688,0	18
16218	40 G 0,5	18,9	345,0	654,0	20	16241	36 G 0,75	19,5	358,0	730,0	18
16453	41 G 0,5	19,0	348,0	671,0	20	16242	40 G 0,75	20,9	371,0	950,0	18
16219	50 G 0,5	20,9	407,0	740,0	20	16454	41 G 0,75	21,2	403,0	971,0	18
16220	61 G 0,5	22,9	520,0	850,0	20	16243	50 G 0,75	23,2	470,0	1100,0	18
16221	80 G 0,5	25,0	690,0	1080,0	20	16244	61 G 0,75	25,0	550,0	1290,0	18
16222	100 G 0,5	27,7	805,0	1350,0	20	16245	80 G 0,75	28,0	715,0	1510,0	18
						16246	100 G 0,75	30,6	910,0	1640,0	18

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

Continuation ▶

Y-CY-JZ flexible, CU-screened, transparent, EMC-preferred type, meter marking



Part No.	No. cores x cross-sec. mm ²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
16248	2 x 1	7,9	54,0	97,0	17
16249	3 G 1	8,2	64,0	103,0	17
16250	4 G 1	8,9	76,0	146,0	17
16251	5 G 1	9,5	89,0	169,0	17
16252	6 G 1	10,2	101,0	199,0	17
16253	7 G 1	11,0	114,0	219,0	17
16254	8 G 1	11,6	130,0	270,0	17
16255	10 G 1	13,0	156,0	330,0	17
16256	12 G 1	13,1	186,0	350,0	17
16257	14 G 1	13,9	198,0	400,0	17
16258	16 G 1	14,5	214,0	422,0	17
16259	18 G 1	15,4	284,0	514,0	17
16260	20 G 1	16,0	325,0	545,0	17
16261	24 G 1	17,4	366,0	640,0	17
16262	25 G 1	18,3	387,0	689,0	17
16263	28 G 1	18,4	421,0	710,0	17
16264	30 G 1	18,8	457,0	762,0	17
16265	34 G 1	20,3	500,0	910,0	17
16266	40 G 1	21,8	536,0	1070,0	17
16455	41 G 1	22,1	578,0	1092,0	17
16267	50 G 1	24,0	681,0	1315,0	17
16268	61 G 1	26,2	710,0	1370,0	17
16269	80 G 1	29,3	940,0	1610,0	17
16270	100 G 1	33,0	1180,0	1840,0	17
16271	2 x 1,5	8,4	64,0	130,0	16
16272	3 G 1,5	9,0	82,0	152,0	16
16273	4 G 1,5	9,6	99,0	168,0	16
16274	5 G 1,5	10,5	123,0	202,0	16
16275	7 G 1,5	12,1	148,0	304,0	16
16276	8 G 1,5	13,0	172,0	336,0	16
16277	10 G 1,5	14,5	198,0	420,0	16
16278	12 G 1,5	14,9	274,0	434,0	16
16279	14 G 1,5	15,5	294,0	480,0	16
16280	16 G 1,5	16,4	318,0	525,0	16
16281	18 G 1,5	17,1	386,0	640,0	16
16282	20 G 1,5	18,0	401,0	690,0	16
16317	21 G 1,5	18,7	447,0	720,0	16
16283	24 G 1,5	19,8	487,0	770,0	16
16284	25 G 1,5	20,7	531,0	805,0	16
16285	28 G 1,5	21,1	562,0	900,0	16
16286	30 G 1,5	21,1	598,0	950,0	16
16287	35 G 1,5	22,7	685,0	1100,0	16
16288	40 G 1,5	24,4	759,0	1350,0	16
16456	41 G 1,5	24,8	840,0	1381,0	16
16289	50 G 1,5	26,8	997,0	1675,0	16
16290	61 G 1,5	29,6	1120,0	1800,0	16
16291	80 G 1,5	33,2	1360,0	2300,0	16
16292	100 G 1,5	36,4	1690,0	2600,0	16

Part No.	No. cores x cross-sec. mm ²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
16293	2 x 2,5	10,0	110,0	180,0	14
16294	3 G 2,5	10,7	148,0	216,0	14
16295	4 G 2,5	11,4	169,0	267,0	14
16296	5 G 2,5	12,5	220,0	347,0	14
16297	7 G 2,5	15,0	284,0	407,0	14
16298	10 G 2,5	17,9	369,0	660,0	14
16318	12 G 2,5	18,0	470,0	722,0	14
16299	2 x 4	11,6	124,0	302,0	12
16300	3 G 4	12,3	178,0	340,0	12
16301	4 G 4	13,4	234,0	410,0	12
16302	5 G 4	14,8	284,0	502,0	12
16303	7 G 4	16,2	321,0	638,0	12
16304	2 x 6	13,5	176,0	350,0	10
16305	3 G 6	14,2	245,0	450,0	10
16306	4 G 6	15,6	316,0	559,0	10
16307	5 G 6	17,0	442,0	702,0	10
16308	7 G 6	18,7	530,0	907,0	10
16309	2 x 10	16,8	260,0	500,0	8
16310	3 G 10	17,8	367,0	750,0	8
16311	4 G 10	19,7	549,0	1020,0	8
16312	5 G 10	21,6	604,0	1115,0	8
16313	7 G 10	24,0	820,0	1500,0	8
16460	4 G 16	22,6	807,0	1380,0	6
16314	5 G 16	25,2	940,0	1553,0	6
16461	4 G 25	28,9	1169,0	1890,0	4
16462	5 G 25	31,8	1420,0	2270,0	4
16463	4 G 35	32,2	1680,0	2390,0	2
16464	5 G 35	36,4	2020,0	2885,0	2
16465	4 G 50	38,2	2370,0	3315,0	1
16157	5 G 50	43,0	2880,0	4150,0	1
16466	4 G 70	46,8	3257,0	4600,0	2/0
16158	5 G 70	51,8	4032,0	5750,0	2/0
16467	4 G 95	51,0	4060,0	6060,0	3/0
16159	5 G 95	56,0	5244,0	7580,0	3/0
16468	4 G 120	56,0	5231,0	7315,0	4/0
16160	5 G 120	63,0	6624,0	9150,0	4/0
16167	4 G 150	63,5	7760,0	9680,0	300 kcmil
16168	5 G 150	69,5	8496,0	10170,0	300 kcmil

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