



Application

Control and connecting cable for use as data cable in control circuits, as signal cable in computer systems and electronics. The screening assures an interference-free data and signal transmission.

For fixed laying and flexible application and medium mechanical stresses with free movement without tensile stress. These cables are suitable for the installation in dry, moist and wet rooms. Outdoor use only with UV-protection and not for underground laying.

Cable construction

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| • Conductor | bare copper strand, fine wired |
| • Conductor class | acc. to DIN VDE 0295 cl. 5 / IEC 60228 cl. 5 |
| • Core insulation | special PVC |
| • Core identification | acc. to DIN VDE 0293 black with white numbering and green-yellow earth core (G = JZ) with protective conductor and (X = OZ) without protective conductor |
| • Stranding | cores stranded in layers |
| • Wrapping | polyester foil overlapping |
| • Shielding | tinned copper braided screening; approx. 85% coverage |
| • Outer sheath | special PVC, meter marking |
| • Sheath colour | grey, RAL 7001 |

Technical Data

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| • Nominal voltage | U ₀ /U 300/500 V |
| • Test voltage | core/core: 4000 V core/screen: 2000 V |
| • Conductor resistance | acc. to DIN VDE 0295 cl. 5 / IEC 60228 cl. 5 |
| • Insulation resistance | min. 20 MOhm x km |
| • Capacity | core/core approx. 120 nF/km, core/screen approx. 155 nF/km |
| • Minimum bending radius | fixed 6 x Ø / flexible installation 15 x Ø |
| • Temperature range | fixed - 40 °C / - 80 °C
flexible - 5 °C / - 70 °C |
| • Temperature at conductor | + 70 °C in operation |
| • Temperature at short-circuit | + 150 °C for 5 seconds |
| • Flame test | PVC self-extinguishing and flame retardant acc. to IEC 60332-1 |
| • Norms | similar to EN 50525-2-51 |

Special features

- Test voltage 4000 V
- Largely resistant to acids, bases and specified types of oil under normal operation conditions
- LABS-/silicone-free (during production)

Remarks

- **RoHS**= conform
- **CE**= conform to the EC Low-Voltage Directive 2014/35/EU
- **EMC** = Electromagnetic compatibility
- Other outer sheath colours and sections on customer request.



Part no.	Section mm ²	Outer-Ø mm	Cu-weight kg / km	Weight kg / km
110300	2 X 0,5	5,4	36,0	40,0
110301	3 G 0,5	5,7	43,0	55,0
110302	3 X 0,5	5,7	43,0	55,0
110303	4 G 0,5	6,3	49,0	74,0
110304	4 X 0,5	6,3	49,0	74,0
110305	5 G 0,5	6,7	57,0	89,0
110306	5 X 0,5	6,7	57,0	89,0
110307	7 G 0,5	7,5	69,0	106,0
110308	7 X 0,5	7,5	69,0	106,0
110309	12 G 0,5	9,7	104,0	158,0
110310	12 X 0,5	9,7	104,0	158,0
110311	18 G 0,5	11,5	141,0	236,0
110312	25 G 0,5	13,6	211,0	317,0
110313	2 X 0,75	5,9	43,0	56,0
110314	3 G 0,75	6,2	52,0	72,0
110315	3 X 0,75	6,2	52,0	72,0
110316	4 G 0,75	6,8	61,0	92,0
110317	4 X 0,75	6,8	61,0	92,0
110318	5 G 0,75	7,5	72,0	108,0
110319	5 X 0,75	7,5	72,0	108,0
110320	7 G 0,75	8,2	89,0	125,0
110321	7 X 0,75	8,2	89,0	125,0
110322	8 G 0,75	8,9	93,0	150,0
110323	8 X 0,75	8,9	93,0	150,0
110324	10 G 0,75	10,3	107,0	163,0
110325	12 G 0,75	10,8	138,0	205,0
110326	12 X 0,75	10,8	138,0	205,0
110327	18 G 0,75	12,6	211,0	284,0
110328	21 G 0,75	14,0	246,0	369,0
110329	25 G 0,75	15,1	280,0	410,0
110330	32 G 0,75	16,5	298,0	458,0
110331	34 G 0,75	16,8	307,0	470,0
110334	50 G 0,75	20,0	461,0	730,0
110335	2 X 1	6,4	51,0	71,0
110336	3 G 1	6,5	62,0	83,0
110337	3 X 1	6,5	62,0	83,0
110338	4 G 1	7,2	74,0	104,0
110339	4 X 1	7,2	74,0	104,0
110340	5 G 1	8,0	88,0	125,0
110341	5 X 1	8,0	88,0	125,0
110342	7 G 1	8,5	112,0	151,0
110343	7 X 1	8,5	112,0	151,0
110344	10 G 1	11,2	150,0	209,0
110345	12 G 1	11,4	185,0	234,0
110346	12 X 1	11,4	185,0	234,0
110347	18 G 1	13,4	268,0	379,0
110348	18 X 1	13,4	268,0	379,0
110349	25 G 1	16,2	354,0	501,0
110350	2 X 1,5	7,0	65,0	86,0
110351	3 G 1,5	7,5	82,0	101,0
110352	3 X 1,5	7,5	82,0	101,0



Part no.	Section mm ²	Outer-Ø mm	Cu-weight kg / km	Weight kg / km
110353	4 G 1,5	8,2	100,0	135,0
110354	4 X 1,5	8,2	100,0	135,0
110355	5 G 1,5	9,0	119,0	147,0
110356	5 X 1,5	9,0	119,0	147,0
110357	7 G 1,5	9,6	154,0	208,0
110358	7 X 1,5	9,6	154,0	208,0
110359	12 G 1,5	13,0	268,0	335,0
110360	18 G 1,5	15,4	373,0	479,0
110361	25 G 1,5	17,9	530,0	677,0
110362	2 X 2,5	8,1	92,0	132,0
110363	3 G 2,5	8,9	118,0	164,0
110364	3 X 2,5	8,9	118,0	164,0
110365	4 G 2,5	9,7	147,0	190,0
110366	4 X 2,5	9,7	147,0	190,0
110367	5 G 2,5	10,7	176,0	253,0
110368	5 X 2,5	10,7	176,0	253,0
110369	7 G 2,5	11,9	253,0	324,0
110370	7 X 2,5	11,9	253,0	324,0
110371	12 G 2,5	15,8	345,0	540,0
110372	18 G 2,5	19,0	569,0	678,0
110373	4 G 4	12,0	248,0	289,0
110374	5 G 4	12,8	273,0	370,0
110375	7 G 4	14,0	305,2	490,0
110376	4 G 6	13,9	343,0	381,0
110377	5 G 6	15,1	380,0	506,0
110378	4 G 10	17,3	535,0	647,0
110379	5 G 10	19,4	592,0	825,0
110380	4 G 16	20,3	800,0	931,0
110381	4 G 25	25,1	1.075,0	1.413,0
110382	4 G 35	30,4	1.576,0	1.970,0