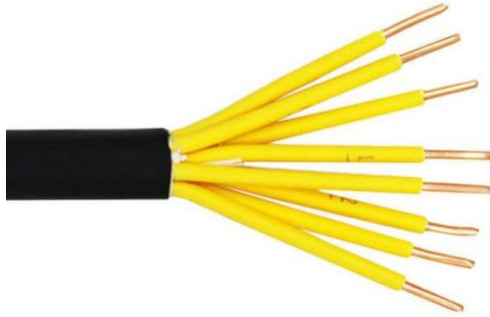


Control Cables



PVC Insulated & Sheathed Control Cable

Standards: IEC 60227-7, GB/T 9330, EN 50525-2-51

Technical Data

Max. operating temperature: 70 °C

Max. short circuit temperature: 160 °C (max. 5 sec.)

Rated voltage: 450/750 V

Application

Designed for fixed wiring in instrumentation, control, and signal circuits at rated AC voltages up to 450/750 V. Suitable for indoor and outdoor installation in cable trays, conduits, and direct burial (with appropriate protection). Ideal for industrial automation, power distribution control, and process control systems.

Construction

- ① Solid or stranded copper conductor
- ② PVC insulation
- ③ Filler / Binder
- ④ PVC sheath

DIMENSION & WEIGHT					ELECTRICAL PROPERTIES		
Number of Cores × Nominal Cross Section	Insulation Thickness (nom)	Conductor Diameter (approx)	Overall Diameter (approx)	Net Weight (approx)	Delivery Length	DC Conductor Resistance 20°C Max	Insulation Resistance Min.
No. × mm ²	mm	mm	mm	kg/km	m	Ω/km	MΩ·km
2 × 0.75	0.6	1.1	6.6	40	1000	24.500	≥0.012
3 × 0.75	0.6	1.1	7.0	49	1000	24.500	≥0.012
4 × 0.75	0.6	1.1	7.6	61	1000	24.500	≥0.012
5 × 0.75	0.6	1.1	8.2	74	1000	24.500	≥0.012
7 × 0.75	0.6	1.1	8.9	95	1000	24.500	≥0.012
8 × 0.75	0.6	1.1	9.6	109	1000	24.500	≥0.012
10 × 0.75	0.6	1.1	11.1	142	1000	24.500	≥0.012
12 × 0.75	0.6	1.1	11.8	165	500	24.500	≥0.012
14 × 0.75	0.6	1.1	12.5	188	500	24.500	≥0.012
16 × 0.75	0.6	1.1	13.2	212	500	24.500	≥0.012
19 × 0.75	0.6	1.1	13.9	244	500	24.500	≥0.012
2 × 1.0	0.6	1.2	6.8	46	1000	18.100	≥0.011
3 × 1.0	0.6	1.2	7.2	58	1000	18.100	≥0.011
4 × 1.0	0.6	1.2	7.8	72	1000	18.100	≥0.011
5 × 1.0	0.6	1.2	8.5	88	1000	18.100	≥0.011
7 × 1.0	0.6	1.2	9.2	113	1000	18.100	≥0.011
8 × 1.0	0.6	1.2	9.9	131	1000	18.100	≥0.011
10 × 1.0	0.6	1.2	11.5	169	500	18.100	≥0.011
12 × 1.0	0.6	1.2	12.2	197	500	18.100	≥0.011

DIMENSION & WEIGHT					ELECTRICAL PROPERTIES		
Number of Cores × Nominal Cross Section	Insulation Thickness (nom)	Conductor Diameter (approx)	Overall Diameter (approx)	Net Weight (approx)	Delivery Length	DC Conductor Resistance 20°C Max	Insulation Resistance Min.
No. × mm ²	mm	mm	mm	kg/km	m	Ω/km	MΩ·km
14 × 1.0	0.6	1.2	13.0	226	500	18.100	≥0.011
16 × 1.0	0.6	1.2	13.7	255	500	18.100	≥0.011
19 × 1.0	0.6	1.2	14.4	294	500	18.100	≥0.011
2 × 1.5	0.7	1.5	7.8	63	1000	12.100	≥0.011
3 × 1.5	0.7	1.5	8.3	81	1000	12.100	≥0.011
4 × 1.5	0.7	1.5	9.0	103	1000	12.100	≥0.011
5 × 1.5	0.7	1.5	9.8	125	1000	12.100	≥0.011
7 × 1.5	0.7	1.5	11.1	168	500	12.100	≥0.011
8 × 1.5	0.7	1.5	12.0	193	500	12.100	≥0.011
10 × 1.5	0.7	1.5	13.4	242	500	12.100	≥0.011
12 × 1.5	0.7	1.5	14.3	284	500	12.100	≥0.011
14 × 1.5	0.7	1.5	15.2	326	500	12.100	≥0.011
16 × 1.5	0.7	1.5	16.6	381	300	12.100	≥0.011
19 × 1.5	0.7	1.5	17.5	439	300	12.100	≥0.011
2 × 2.5	0.8	1.9	9.0	93	1000	7.410	≥0.010
3 × 2.5	0.8	1.9	9.6	122	1000	7.410	≥0.010
4 × 2.5	0.8	1.9	10.9	160	500	7.410	≥0.010
5 × 2.5	0.8	1.9	11.9	196	500	7.410	≥0.010
7 × 2.5	0.8	1.9	12.9	256	500	7.410	≥0.010
8 × 2.5	0.8	1.9	13.9	295	500	7.410	≥0.010
10 × 2.5	0.8	1.9	16.3	383	300	7.410	≥0.010
12 × 2.5	0.8	1.9	17.3	449	300	7.410	≥0.010
14 × 2.5	0.8	1.9	18.4	516	300	7.410	≥0.010
16 × 2.5	0.8	1.9	19.4	584	300	7.410	≥0.010
19 × 2.5	0.8	1.9	20.5	676	300	7.410	≥0.010

Note: Conductors are solid copper (Class 1). Dimensions and weights are approximate and for reference only. DC conductor resistance values are maximum at 20 °C; insulation resistance values are minimum at 20 °C. Delivery length depends on packaging — lighter cables are supplied in 1000 m coils/drums, heavier cables in 500 m or 300 m wooden drums; other lengths available on request. Available core counts: 2, 3, 4, 5, 7, 8, 10, 12, 14, 16, 19.