

YY Control Flexible Cable

Technical Data

Conductor

Class 5 flexible plain copper conductors

Insulation

PVC (Polyvinyl Chloride)

Temperature Rating

Fixed: -35°C to + 70°C

Flexing: -5°C to + 70°C

Sheath

PVC (Polyvinyl Chloride)

Minimum Bending Radius

10 x overall diameter

Sheath Colour

Grey

Core Identification

Black with White numbers

Voltage Rating

300/500V

(3 cores and above includes Green/Yellow)

Coloured cores available



Dimensions

Part number	No. of Cores x Nominal Cross Sectional Area # x mm ²	Thickness of Insulation mm	Thickness of Outer Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/ Km
YY Control Flexible Cable - 2 Cores					
772-001	2 x 0.50	0.5	0.8	5.20	39.33
772-002	2 x 0.75	0.5	0.8	5.70	48.01
772-003	2 x 1.00	0.5	0.8	5.90	54.61
772-004	2 x 1.50	0.6	0.9	7.10	78.21
772-005	2 x 2.50	0.7	0.9	8.30	113.08
YY Control Flexible Cable - 3 Cores					
772-006	3 x 0.50	0.5	0.8	5.50	46.67
772-007	3 x 0.75	0.5	0.8	6.04	57.36
772-008	3 x 1.00	0.5	0.8	6.26	66.26
772-009	3 x 1.50	0.6	0.9	7.54	94.77
772-010	3 x 2.50	0.7	1.0	9.04	143.57

Part Number	No. of Cores x Nominal Cross Sectional Area # x mm ²	Thickness of Insulation mm	Thickness of Outer Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/ Km
YY Control Flexible Cable - 4 Cores					
772-015	4 x 0.50	0.5	0.8	5.98	56.65
772-016	4 x 0.75	0.5	0.8	6.58	70.00
772-017	4 x 1.00	0.5	0.9	7.02	84.83
772-018	4 x 1.50	0.6	0.9	8.23	116.63
772-019	4 x 2.50	0.7	1.0	9.87	177.76
772-020	4 x 4.00	0.8	1.1	11.90	265.00
772-021	4 x 6.00	0.8	1.2	13.60	365.80
772-022	4 x 10.00	1.0	1.3	17.20	607.70
772-023	4 x 16.00	1.0	1.5	20.20	888.60
YY Control Flexible Cable - 5 Cores					
772-024	5 x 0.50	0.5	0.8	6.53	68.35
772-025	5 x 0.75	0.5	0.9	7.41	88.33
772-026	5 x 1.00	0.5	0.9	7.68	102.74
772-027	5 x 1.50	0.6	1.0	9.23	146.37
772-028	5 x 2.50	0.7	1.1	11.05	222.36
772-029	5 x 4.00	0.8	1.1	13.10	324.70
772-030	5 x 6.00	0.8	1.3	15.10	453.90
772-031	5 x 10.00	1.0	1.3	18.90	744.50
772-032	5 x 16.00	1.0	1.5	22.20	1090.10
772-033	5 x 25.00	1.3	1.9	29.00	1774.90
YY Control Flexible Cable - 7 Cores					
772-034	7 x 0.50	0.5	0.9	7.30	88.00
772-035	7 x 0.75	0.5	0.9	8.05	109.29
772-036	7 x 1.00	0.5	1.0	8.55	132.59
772-037	7 x 1.50	0.6	1.0	10.05	183.13
772-038	7 x 2.50	0.7	1.2	12.25	286.42
YY Control Flexible Cable - 12 Cores					
772-039	12 x 0.50	0.5	1.0	9.70	154.23
772-040	12 x 0.75	0.5	1.1	10.94	197.78
772-041	12 x 1.00	0.5	1.1	11.36	231.78
772-042	12 x 1.50	0.6	1.2	13.64	329.43
772-043	12 x 2.50	0.7	1.4	16.54	510.44
YY Control Flexible Cable - 18 Cores					
772-044	18 x 0.50	0.5	1.1	11.50	220.54
772-045	18 x 0.75	0.5	1.2	12.95	282.32
772-046	18 x 1.00	0.5	1.3	13.65	338.96
772-047	18 x 1.50	0.6	1.4	16.35	480.03
772-048	18 x 2.50	0.7	1.6	19.75	741.53
YY Control Flexible Cable - 25 Cores					
772-049	25 x 0.50	0.5	1.3	13.80	314.42
772-050	25 x 0.75	0.5	1.4	15.50	400.91
772-051	25 x 1.00	0.5	1.4	16.10	471.30
772-052	25 x 1.50	0.6	1.6	19.50	677.47
772-053	25 x 2.50	0.7	1.8	23.50	1042.51

Conductors

Class 5 flexible Copper Conductors for Single Core and Multi-Core cables

1 Nominal Cross Sectional Area mm ²	2 Maximum Diameter of Wires in Conductor mm	3 Maximum Resistance of Conductor at 20°C Plain Wires ohms/Km
0.50	0.21	39.0000
0.75	0.21	26.0000
1.00	0.21	19.5000
1.50	0.26	13.3000
2.50	0.26	7.9800
4.00	0.31	4.9500
6.00	0.31	3.3000
10.00	0.41	1.9100
16.00	0.41	1.2100
25.00	0.41	0.7800
35.00	0.41	0.5540
50.00	0.41	0.3860
70.00	0.51	0.2720
95.00	0.51	0.2060
120.00	0.51	0.1610

Electrical Characteristics

Current Carrying Capacity (amperes) at 30°C

Nominal Cross Sectional Area mm ²	Current Rating Amps
0.50	7
0.75	12
1.00	15
1.50	18
2.50	26
4.00	34
6.00	44
10.00	61
16.00	82
25.00	108
35.00	135
50.00	168
70.00	207
95.00	250
120.00	292

De-rating Factors

Multi-Conductor cables with cross sectional area up to 10mm²

No. of Cores	De-rating Factor
5	0.75
7	0.65
10	0.55
14	0.50
19	0.45