

CONTROL CABLES

KEI

Wires & Cables

PVC INSULATED, ARMoured CONTROL CABLES AS PER IS: 1554 (P-1)

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Thickness of PVC Insulation (nom)	Min thickness of PVC Inner Sheath	STRIP ARMoured CABLE				WIRE ARMoured CABLE				Standard Delivery/ Drum Length	Current Rating	
			Nominal size of strip	Min Thickness of PVC Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Nominal diameter of wire	Min Thickness of PVC Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable		Buried Direct in the Ground @ 30°C	In Air/Duct @ 40°C
Sq.mm	mm	mm	mm x mm	mm	mm	Kg/Km	mm	mm	mm	Kg/Km	meters	Amps	Amps
2C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	14.0	375	1000	25	20/22
3C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	14.5	400	1000	21	17/18
4C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	15.4	450	1000	21	17/18
5C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	16.3	500	1000	21	17/18
6C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	17.3	550	1000	15	13
7C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	17.3	575	1000	14	13
10C x 1.5	0.8	0.3	---	---	---	---	1.4	1.4	20.0	750	1000	13	11
12C x 1.5	0.8	0.3	4 x 0.8	1.24	19.4	675	1.6	1.4	21.4	900	1000	12	10
14C x 1.5	0.8	0.3	4 x 0.8	1.4	21.2	775	1.6	1.4	22.8	975	1000	11	10
16C x 1.5	0.8	0.3	4 x 0.8	1.4	22.1	850	1.6	1.4	23.7	1050	1000	11	9
19C x 1.5	0.8	0.3	4 x 0.8	1.4	23.1	925	1.6	1.4	24.7	1150	1000	10	9
24C x 1.5	0.8	0.3	4 x 0.8	1.4	26.4	1150	1.6	1.4	28.0	1375	1000	9	8
27C x 1.5	0.8	0.3	4 x 0.8	1.4	26.9	1200	1.6	1.4	28.5	1450	1000	9	8
30C x 1.5	0.8	0.3	4 x 0.8	1.4	27.8	1300	1.6	1.4	29.4	1550	1000	9	7
37C x 1.5	0.8	0.3	4 x 0.8	1.4	29.7	1500	1.6	1.4	31.3	1750	1000	8	7
2C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	15.2	425	1000	33	26/28
3C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	15.8	500	1000	28	23/24
4C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	16.8	550	1000	28	23/24
5C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	17.9	625	1000	28	23/24
6C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	19.1	700	1000	21	18
7C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	19.1	725	1000	20	17
10C x 2.5	0.9	0.3	4 x 0.8	1.4	21.0	850	1.6	1.4	22.6	975	1000	18	15
12C x 2.5	0.9	0.3	4 x 0.8	1.4	22.2	900	1.6	1.4	23.8	1100	1000	17	14
14C x 2.5	0.9	0.3	4 x 0.8	1.4	23.8	1000	1.6	1.4	25.4	1225	1000	16	13
16C x 2.5	0.9	0.3	4 x 0.8	1.4	24.9	1100	1.6	1.4	26.5	1325	1000	15	13
19C x 2.5	0.9	0.3	4 x 0.8	1.4	26.10	1250	1.6	1.4	27.7	1500	1000	14	12
24C x 2.5	0.9	0.3	4 x 0.8	1.4	30.0	1500	1.6	1.56	32.0	1800	1000	13	11
27C x 2.5	0.9	0.3	4 x 0.8	1.4	30.6	1625	1.6	1.56	32.6	1950	1000	12	10
30C x 2.5	0.9	0.3	4 x 0.8	1.56	32.0	1775	1.6	1.56	33.6	2050	1000	12	10
37C x 2.5	0.9	0.4	4 x 0.8	1.56	34.5	2050	2.0	1.56	36.9	2600	1000	11	9

Construction

1. Solid/Stranded annealed copper conductor & Tinned/Bare
2. General Purpose PVC-A/HR PVC-C Insulation
3. Cores laid up (filled if needed)
4. FR/FRLS/HR/General Purpose PVC ST-1 or 2 inner sheath
5. Armouring round Galvanized steel wires/strips
6. FR/FRLS/HR/General Purpose PVC ST-1 or 2 outer sheath

Max. Conductor D.C. Resistance at 20°C - Conductor Size :

1.5 sq.mm - 12.1 Ohm/Km (bare), 12.2 Ohm/Km (tinned)
2.5 sq.mm - 7.41 Ohm/Km (bare), 7.56 Ohm/Km (tinned)

* Dimensions specified are with stranded conductor

Approx Reactance at 50 Hz

1.5 sq.mm - 0.126 Ohm/Km, 2.5 sq.mm - 0.119 Ohm/Km

Approx Capacitance at 50 Hz

1.5 sq.mm - 0.14 uF/Km, 2.5 sq.mm - 0.15 uF/Km

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No of Cores & Cross sectional Area	Thickness of PVC Insulation (nom)	Min thickness of PVC Inner Sheath	Nom. Thickness of PVC Outer Sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Standard Delivery/ Drum length	Current Rating	
							Buried Direct in the Ground @ 30°C	In Air/Duct @ 40°C
Sq.mm	mm	mm	mm	mm	Kg/Km	meters	Amps	Amps
2C x 1.5	0.8	0.3	1.8	12.2	150	1000	25	20/22
3C x 1.5	0.8	0.3	1.8	12.7	175	1000	21	17/18
4C x 1.5	0.8	0.3	1.8	13.6	200	1000	21	17/18
5C x 1.5	0.8	0.3	1.8	14.5	250	1000	21	17/18
6C x 1.5	0.8	0.3	1.8	15.5	275	1000	15	13
7C x 1.5	0.8	0.3	1.8	15.5	300	1000	14	13
10C x 1.5	0.8	0.3	1.8	17.8	400	1000	13	11
12C x 1.5	0.8	0.3	1.8	18.8	450	1000	12	10
14C x 1.5	0.8	0.3	1.8	20.2	500	1000	11	10
16C x 1.5	0.8	0.3	1.8	21.1	560	1000	11	9
19C x 1.5	0.8	0.3	2.0	22.5	660	1000	10	9
24C x 1.5	0.8	0.3	2.0	25.8	800	1000	9	8
27C x 1.5	0.8	0.3	2.0	26.3	875	1000	9	8
30C x 1.5	0.8	0.3	2.0	27.2	950	1000	9	7
37C x 1.5	0.8	0.3	2.0	29.1	1125	1000	8	7
2C x 2.5	0.9	0.3	1.8	13.4	200	1000	33	26/28
3C x 2.5	0.9	0.3	1.8	14.0	225	1000	28	23/24
4C x 2.5	0.9	0.3	1.8	15.0	275	1000	28	23/24
5C x 2.5	0.9	0.3	1.8	16.1	325	1000	28	23/24
6C x 2.5	0.9	0.3	1.8	17.3	375	1000	21	18
7C x 2.5	0.9	0.3	1.8	17.3	400	1000	20	17
10C x 2.5	0.9	0.3	1.8	20.0	550	1000	18	15
12C x 2.5	0.9	0.3	2.0	21.6	650	1000	17	14
14C x 2.5	0.9	0.3	2.0	23.2	725	1000	16	13
16C x 2.5	0.9	0.3	2.0	24.3	800	1000	15	13
19C x 2.5	0.9	0.3	2.0	25.5	900	1000	14	12
24C x 2.5	0.9	0.3	2.0	29.4	1125	1000	13	11
27C x 2.5	0.9	0.3	2.0	30.0	1225	1000	12	10
30C x 2.5	0.9	0.3	2.0	31.0	1350	1000	12	10
37C x 2.5	0.9	0.4	2.2	33.9	1600	1000	11	9

Construction

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Approx Capacitance at 50 Hz

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