

WILLCA



WIRES & CABLES

PVC WIRES & CABLES

TECHNICAL DETAILS

Trust built on quality



TECHNICAL DATA FOR 1100 VOLTS PVC INSULATED CABLES AS PER IS: 694:2010

WILLCA 1100 VOLTS SINGLE CORE FR/HRFR/FRLS MULTISTRAND COPPER CONDUCTOR CABLES CONFORMING TO IS: 694:2010

Nominal Area of Conductor	Nominal Thickness of Conductor	Nominal Overall Diameter	Max. Conductor Resistance at 20°C	Current Carrying Capacity 2 Cables, Single Phase ac	
				Enclosed in Conduit/Trunking	Unenclosed clipped to a surface or cable tray
Sq.mm.	mm	mm	Ohms/Km	Amps	Amps
1.0	0.7	2.8	18.1	11	12
1.5	0.7	3.1	12.1	13	16
2.5	0.8	3.8	7.41	18	22
4.0	0.8	4.6	4.95	24	29
6.0	0.8	5.3	3.3	31	37

NOTE: Sizes 1.0 and 2.5 sq.mm. are with conductor class 2 and 4.0 to 6.0 sq.mm. are with conductor class 5

**WILLCA 1100 VOLTS SINGLE CORE PVC INSULATED MULTISTRAND
COPPER CONDUCTOR INDUSTRIAL WIRING CABLES CONFORMING TO IS: 694:2010**

Nominal Area of Conductor	Nominal Thickness of Insulation	Approx. Overall Diameter	Max. Conductor Resistance at 20°C	Current Carrying Capacity Bunched & enclosed in conduit or Trunking		Current carrying capacity Clipped direct to a surface or on Cable tray bunched & enclosed	
				2 Cables single phase ac or dc	3 or 4 cables 3 phase ac	2 Cables single phase ac or dc	3 or 4 cables 3 phase ac
Sq.mm.	Mm	mm	Ohms/Km	Amps	Amps	Amps	Amps
10	1.0	6.5	1.91	42	35	51	45
16	1.0	7.5	1.21	57	48	68	61
25	1.2	9.5	0.78	71	60	86	78
35	1.2	10.5	0.554	91	77	110	99
50	1.4	12	0.386	120	100	145	135

**WILLCA 1100 VOLTS ROUND MULTI CORE MULTISTRAND COPPER
CONDUCTOR PVC INSULATED & SHEATHED CABLES CONFORMING TO IS: 694:2010**

Cond. Area	Max. Conductor Resistance at 20°C	Nominal Thickness of Insulation	Appx. Dia over Insulation	Nom. Sheath Thickness			Appx. Overall Diameter			Current Rating
				2 Core	3 Core	4 Core	2 Core	3 Core	4 Core	
Sq.mm.	Ohms/Km	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	Amps
0.5	39	0.6	2.2	0.9	0.9	0.9	6.2	6.6	7.2	4
0.75	26	0.6	2.5	0.9	0.9	0.9	6.8	7.2	7.8	7
1.0	18.1	0.6	2.6	1.2	1.2	1.2	7.5	8	8.7	11
1.5	12.1	0.7	3	1.2	1.2	1.3	8.6	8.9	10	14
2.5	7.41	0.8	3.7	1.3	1.3	1.3	10	10.6	11.6	19
4.0	4.95	0.8	4.3	1.0	1.0	1.0	11	11.5	13	26

