WATTS & VOLT
stay wired

PVC WIRES & CABLES

TECHNICAL DETAILS

Trust built on quality

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

WATTS & VOLT 1100 VOLTS SINGLE CORE FR/HRFR/FRLS
MULTISTRAND COPPER CONDUCTER 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

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IS - 694
CM/L-870097918

WATTS & VOLT 1100 VOLTS SINGLE CORE PVC INSULATED MULTISTRAND COPPER CONDUCTOR INDUSTIRAL 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

WATTS & VOLT 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