

STEEL DATA FOR SHEETS, PLATES

STEEL DATA					
WEIGHT OF STEEL					
1) SHEET					
SWG		Thickness in mm		kg./sq.M.	
10		3.15		24.70	
12		2.50		19.61	
14		2.00		15.69	
16		1.66		12.55	
18		1.25		9.80	
20		1.00		7.84	
22		0.80		6.27	
24		0.63		4.94	
26		0.50		3.91	
2) PLATES					
Thickness in mm			kg./sq.M.		
5			39.20		
7			55.00		
10			78.50		
12			94.20		
14			109.90		
16			125.60		
18			141.30		
20			157.00		
22			172.70		
25			196.20		
3) M.S. FLAT WEIGHT IN KG./M.					
Width in mm			Thickness in MM		
	3	5	6	8	10
12	28	5	6	8	10
25	60	1.0	1.2	1.6	2.0
32	80	1.3	1.5	2.0	2.5
40	90	1.6	1.9	2.5	3.1
50	1.2	2.0	2.4	3.1	3.9

CURRENT RATINGS (ac) FOR TWO, THREE & FOUR CORE

650/1100 Volts, Aromoured or un-Aromoured Aluminum Conductor Cables as per IS : 3961 (part II) - 1967

Nominal area of conduct or mm2	LAID DIRECT					
	IN THE GROUND		IN DUCTS		IN AIR	
	3.31/2&4		3.31/2&4		3.31/2&4	
	2 Core		2 Core		2 Core	
	Core		Core		Core	
	Amps	Amps	Amps	Amps	Amps	Amps
1.5	18	16	16	14	16	13
2.5	25	21	21	18	21	18
4	32	28	27	23	27	23
6	40	35	34	30	35	30
10	55	46	45	39	47	40
16	70	60	58	50	59	51
25	90	76	76	63	78	70
35	110	92	92	77	99	86
50	135	110	115	95	125	105
70	160	135	140	115	150	130
95	190	165	170	140	185	155
120	210	185	190	155	200	180
150	240	210	210	175	240	205
185	275	235	240	200	275	240
240	320	275	275	235	325	280
300	355	305	305	260	365	315
400	385	335	345	290	420	375

CONDITIONS OF INSTALLATION

Maximum Conductor Temperature 70°C

Ambient Air Temperature 40°C

Ground Temperature 30°C

Depth of Laying of Cables in Ground 75 Cmt.

Thermal Resistivity of soil 150Cm/Watt.

Method of Installation Singly