



BHARAT HEAVY ELECTRICALS LIMITED
INSULATOR PLANT JAGDISHPUR

Table of Surface Area for Metal Parts

Sl. No.	Ratings	Wt. in Kg (Approx.)	Surface Area in cm ²
Caps (SGI)			
1	45 kN B&S	0.85	442
2	45 kN T&C	0.84	460
3	70/90 kN 'R'	1.40	606
4	70/90 kN 'W'	1.40	606
5	120 kN 'R' (20 mm)	1.50	630
6	120 kN 'W' (20 mm)	1.50	630
7	160 kN 'R'	2.00	737
8	160 kN 'W'	2.00	737
9	210 kN 'R'	2.50	891
10	320 kN 'R' Std.	3.50	1090
11	45 kN Clevis Cap (ANSI)	0.70	437
12	67/90 kN Clevis Cap	1.20	598
13	70 kN 'R' (38 code)	1.00	524
14	Base for 11 kV Post Insulator	1.40	527
15	Cap for 11 kV Post Insulator	1.00	388
16	120 kN 'R' (16 mm)	1.40	606
Pins			
1	45 kN Ball Pin	0.21	67
2	45 kN T&C Pins	0.26	97.5
3	70/90 kN Pin (Old) (17 code)	0.30	83.6
4	70/90 kN Pin (New) (07 code)	0.283	80
5	70 kN Ball Pin (38 Code)	0.25	75
6	120 kN Ball Pin (20 mm)	0.40	114
7	120 kN Ball Pin (16 mm)	0.30	84
8	160 kN Ball Pin	0.50	122
9	210 kN Ball Pin	0.70	150
10	320 kN Ball Pin	0.89	180
11	45 kN Clevis Pin	0.45	165
12	Cotter Pin	0.08	31
13	45 kN Eye Pin	0.23	92
14	Dead End Clamp	0.76	300
15	67/90 kN T&C Pin	0.30	97
16	120 kN Ball Pin (Zin Sleeve – 3.5 mm)	0.40 + average wt. of zinc sleeve 45 grams	
17	120 kN Ball Pin (Zin Sleeve – 5 mm)	0.40 + average wt. of zinc sleeve 69 grams	
18	70/90 kN Ball Pin (Zinc Sleeve)	0.30 + average wt. of zinc sleeve 33 grams	
19	45 kN Clevis Pin S&T (Zinc Sleeve)	0.45 + average wt. of zinc sleeve 33 grams	



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20	45 kN Dead End Pin (Zinc Sleeve)	0.76 + average wt. of zinc sleeve 33 grams	
21	160 kN Ball Pin (Zinc Sleeve – 3.5 mm)	0.50 + average wt. of zinc sleeve 45 grams	
22	160 kN Ball Pin (Zinc Sleeve – 5 mm)	0.50 + average wt. of zinc sleeve 71 grams	

Note:-

1. The given weight is for reference only and not for any calculation.

(Shailendra Yadav)
Manager/Engineering & NPD