

Cable Size	Current rating			Volt Drop mV/A/m	Joint Kit Size Duracast
	Rate area	Gound	Ducts		
1.5	23	18	18	25.08	P0
2.5	30	24	24	15.363	P0
4	38	31	32	9.561	P0
6	48	39	40	6.391	P1
10	64	52	54	3.793	P1
16	82	67	72	2.39	P2
25	126	101	113	1.515	P2
35	147	120	136	1.097	P2.5
50	176	144	167	0.817	P2.5
70	215	175	207	0.576	P3
95	257	210	253	0.427	P3.5
120	292	239	293	0.348	P3.5
150	328	269	336	1.294	P4
185	369	303	384	1.25	P4
240	422	348	447	0.211	P4
300	472	397	509	0.189	

Approximate dimintions and nett mass per 100 mtr				Gland size
Rated area	Number of cores	Max Dia	Nett mass	
1.5	2	14	39	0
	3	14.5	44	0
	4	15.5	49	0
2.5	2	15	45	0
	3	15.5	50	0
	4	16.5	58	0+1
4	2	17	59	0+1
	3	17.5	66	1
	4	18.5	77	1
6	2	17.5	67	1
	3	18.5	78	1
	4	20	91	2
10	2	21	89	2
	3	22	102	2
	4	23.5	120	2
16	2	18.5	93	2
	3	20.5	114	2
	4	23	140	3
25	2	21.5	120	2+3
	3	24.5	160	3
	4	27.5	200	3
35	2	23	142	3

3 Phase Formulae

Volt drop = $1.72 \times I \times R$

I = line current per phase

R = Resistance of one core only

KW = KVA x power factor

KW = line amps x line volts x 1.73 x power factor (divided by 1000)

KW = horse power x 746 (divided by 1000 x efficietcy)

KVA = kw (divided by power factor)

KVA = line amps x line volts x 1.732 (divided by 1000)

KVA = horse power x 746 (divided by 1000 x efficiency x power factor)

Line amps = kw x 1000 (divided by line volts x 1.732 x power factor)

Line amps = kw x 10000 (divided by line volts x 1.732)

Line amps = kw x 1000 (line volts x 172 x power factor x efficiency)

Useful facts

1 hp = 746 watts

1 kw = 1.341 hp

1 inch = 25.4 mm

1 kg = 2.2 lb

1 lb = 0.4545 kg

	3	27.5	200	3
	4	29.5	247	3+4
50	3	29.5	250	4
	4	34	338	4
70	3	33	344	4
	4	39.5	470	4+5
95	3	38.5	482	4+5
	4	45	612	5
120	3	42.5	590	5
	4	47	752	5
150	3	45	705	5+6
	4	53	960	6
185	3	52	910	6
	4	58	1150	6