

DIMENSIONS

No. Of Cores	Nominal Cross Sectional Area mm ²	Nominal Thickness Of Insulation mm	Nominal Overall Diameter mm	Nominal Weight Kg/Km
1	16	2	10.5	250
1	25	2	12.5	355
1	35	2	13.5	460
1	50	2	15	596
1	70	2	16.5	810
1	95	2	19	1100
1	120	2	20.5	1350
1	150	2	22.5	1650
1	185	2	25	2050
1	240	2	28	2650
1	300	2	31	3275
2	1.5	1	14.3	275
2	2.5	1	14.9	320
3	1.5	1	15	315
3	2.5	1	15.9	371
3	4	1	16.7	435
3	6	1	17.8	526
3	10	1	19.5	691
3	16	2	22.3	982
3	25	2	25.8	1392
3	35	2	28.4	1778
3	35/16	2	29.5	1964
3	50/25	2	33.6	2633
3	70/35	2	38.1	3563
3	95/50	2	43.4	4768
3	120/70	2	46.9	5856
4	1.5	1	16.1	365
4	2.5	1	17	429
4	4	1	18	515
4	6	1	19.2	628
4	10	1	21.1	839
4	16	2	24.3	1210
4	25	2	28.1	1717
4	35	2	31	2209
4	50	2	35.1	2921
4	70	2	40	3980
4	95	2	45.2	5321
4	120	2	49	6475
4	150	2	53	7725
5	1.5	1	17.4	429
5	2.5	1	18.4	506
5	4	1	19.5	612
5	6	1	20.9	752
5	10	1	23	1009
5	16	2	26.6	1465
5	25	2	30.9	2105
5	35	2	36	2500

No. Of Co REs	Nominal Cross Sectional Area mm ²	Nominal Thickness Of Insulation mm	Nominal Overall Diameter mm	Nominal Weight Kg/Km
7	1.5	105	18.6	497
7	2.5	175	19.8	599
12	1.5	180	23.5	744
12	2.5	300	25.2	910

CONDUCTORS

Class 1 Solid Conductor for Single Core and Multi-Core Cables

Nominal Cross Sectional Area mm ²	Maximum Resistance Of Conductor At 20°C	
	Plain Wires ohms/km	Metal-Coated Wires ohms/km
1.5	12.1	1.5
2.5	7.41	2.5
4	4.61	4
6	3.08	6
10	1.83	10

Class 2 Stranded Conductors for Single Core and Multi-Core Cables

Nominal Cross Sectional Area mm ²	Minimum No. Of Wires In Conductor						Maximum Resistance Of Conductor At 20°C
	Circular		Circular Compacted		Shaped		Annealed Copper Conductor
	Cu	Al	Cu	Al	Cu	Al	Plain Wires ohms/km
16	7	7	6	6	-	-	1.15
25	7	7	6	6	6	6	0.727
35	7	7	6	6	6	6	0.524
50	19	19	6	6	6	6	0.387
70	19	19	12	12	12	12	0.268
95	19	19	15	15	15	15	0.193
120	37	37	18	15	18	15	0.153
150	37	37	18	15	18	15	0.124
185	37	37	30	30	30	30	0.0991
240	37	37	34	30	34	30	0.0754
300	61	61	34	30	34	30	0.0601

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity

Nominal Cross Sectional Area mm ²	Current Carrying Capacity					
	2 Core Cables			3 Core Cables		
	Clipped Direct	In Air	In Conduit	Clipped Direct	In Air	In Conduit
1.5	24	-	22	22	-	19.5
2.5	33	-	30	30	-	26
4	45	-	40	40	-	35
6	58	-	51	52	-	44
10	80	-	69	71	-	60
16	107	-	91	96	-	80
25	138	161	119	119	135	105
35	171	200	146	147	169	128
50	209	242	175	179	207	154
70	269	310	221	229	268	194
95	328	377	265	278	328	233
120	382	437	305	322	383	268
150	441	504	-	371	444	-
185	506	575	-	424	510	-
240	599	679	-	500	607	-
300	693	783	-	576	703	-