

Conductor Resistances

Max. DC Conductor Resistances

Stranded Class 2 Conductors to BS EN 60228 and IEC60228 Single Core & Multi-Core Cables

Nominal Conductor Area	Max DC Conductor Resistance @ 20°C		
	Copper Conductors		Aluminium Conductors
	Plain Wires	Metal-coated Wires	
mm ²	ohms/km	ohms/km	ohms/km
0.5	36.0	36.7	-
0.75	24.5	24.8	-
1.0	18.1	18.2	-
1.5	12.1	12.2	-
2.5	7.41	7.56	-
4.0	4.61	4.70	7.41
6.0	3.08	3.11	4.61
10	1.83	1.84	3.08
16	1.15	1.16	1.91
25	0.727	0.734	1.20
35	0.524	0.529	0.868
50	0.387	0.391	0.641
70	0.268	0.270	0.443
95	0.193	0.195	0.320
120	0.153	0.154	0.253
150	0.124	0.126	0.206
185	0.0991	0.100	0.164
240	0.0754	0.0762	0.125
300	0.0601	0.0607	0.100
400	0.0470	0.0475	0.0778
500	0.0366	0.0369	0.0605
630	0.0283	0.0286	0.0469
800	0.0221	0.0224	0.0367
1000	0.0176	0.0177	0.0291

Conductor Resistances

Max. DC Conductor Resistances

Flexible Class 5 Copper Conductors to BS EN 60228 and IEC60228 Single Core & Multi-Core Cables

Nominal Conductor Area	Max DC Conductor Resistance @ 20°C	
	Plain Wires	Metal-coated Wires
mm ²	ohms/km	ohms/km
0.22	92.0	92.4
0.5	39.0	40.1
0.75	26.0	26.7
1.0	19.5	20.0
1.25	15.6	16.1
1.35	14.6	15.0
1.5	13.3	13.7
2.5	7.98	8.21
4.0	4.95	5.09
6.0	3.30	3.39
10	1.91	1.95
16	1.21	1.24
25	0.780	0.795
35	0.554	0.565
50	0.386	0.393
70	0.272	0.277
95	0.206	0.210
120	0.161	0.164
150	0.129	0.132
185	0.106	0.108
240	0.0801	0.0817
300	0.0641	0.0654
400	0.0486	0.0495
500	0.0384	0.0391
630	0.0287	0.0292

Conductor Resistances

Max. DC Conductor Resistances

Flexible Class 6 Copper Conductors to BS EN 60228 and IEC60228 Single Core & Multi-Core Cables

Nominal Conductor Area	Max DC Conductor Resistance @ 20°C	
	Plain Wires	Metal-coated Wires
mm ²	ohms/km	ohms/km
0.5	39.0	40.1
0.75	26.0	26.7
1.0	19.5	20.0
1.5	13.3	13.7
2.5	7.98	8.21
4.0	4.95	5.09
6.0	3.30	3.39
10	1.91	1.95
16	1.21	1.24
25	0.780	0.795
35	0.554	0.565
50	0.386	0.393
70	0.272	0.277
95	0.206	0.210
120	0.161	0.164
150	0.129	0.132
185	0.106	0.108
240	0.0801	0.0817
300	0.0641	0.0654