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ENGLISH

Datasheet

Switchgear Cable

8114413
8114416
8114419
8114422
8114425
8114485



Cable Data Sheet

Insulation:	**PVC (Type TI1 to BS EN 50363)**
Insulation Radial Thickness:	**0.80mm**
Diameter Over Insulation:	**3.30mm (Maximum)**
Voltage Rating:	**600/1000V**
Conductor Resistance:	**19.5 Ω/km @ 20°C (Nominal)**
Cable Weight:	**17.30 kg/km (Nominal)**
Standard:	**BS 6231:2006**

TECHNICAL INFORMATION

Conductors:	Plain annealed copper, Class 5 to BS EN 60228.
Insulation:	Heat Resisting PVC.
Voltage Rating:	600V between conductor and earth, 1000V between conductors.
Max. Conductor Temp:	105°C in air, 60°C in oil.
Min. bend radius:	6 x overall diameter.

AWM Size	Size (mm^2)	Max diam of wires in conductor mm	Maximum resistance at 20°C Ω/Km	UL Style	Nominal R/T(mm)	Nominal Diam (mm)	Current Rating (A)	Weight (Kg/km)
22	0.5	0.21	39.0	1015	0.8	2.6	11	11
20	0.75	0.21	26.0	1015	0.8	2.8	14	14
18	1	0.21	19.5	1015	0.8	3	17	17
16	1.5	0.26	13.3	1015	0.8	3.3	21	22
14	2.5	0.26	7.98	1015	0.8	3.7	30	33
12	4	0.31	4.95	1015	0.8	4.3	41	49
10	6	0.31	3.30	1015	0.8	5.1	53	71
8	10	0.41	1.91	1028	1.2	6.8	75	124
6	16	0.41	1.21	1283	1.58	9.2	100	199
4	25	0.41	0.78	1283	1.58	10.6	136	290
2	35	0.41	0.554	1283	1.58	11.6	167	387
1	50	0.41	0.386	1284	2.1	14.4	190	570
2/0	70	0.51	0.272	1284	2.1	16.5	240	781
3/0	95	0.51	0.206	1284	2.1	18.7	300	1025
4/0	120	0.51	0.121	1284	2.1	20	340	1280

Current ratings are based on a conductor operating temperature of 85°C and an ambient air temperature of 45°C and are for a single panel wire in free air.

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