POWER PANEL FLEX CABLE

300/500V AND 600/1000V

Cable Description

Single core flexible copper conductors to SANS 1411 Part 1, insulated with general purpose flexible grade PVC and sheathed with a flexible grade waterproof PVC/Nitrile.

Installation Information

A flexible power cable where flexibility is needed in equipment such as:
- LV transformer connections
- General wiring applications
- Motor control centres
- Distribution boards

Properties

Specifications : SANS 1574-3

Temperature Range : -10°C to 70°C

Voltage Rating : 300/500V and 600/1000V

Core Identification : Blue, black, brown, grey, green, yellow, white and red

Packaging : 100mt shrink-wrapped coils
: 500mt lengths available on request
: 2500mt, 4000mt and 7000mt lengths down coiled into cardboard barrels available on request (depending on size)

Technical Data

Cable Size	Approximate Conductor Diameter	Approximate Cable Diameter	Impedance @ 70°C	Approximate Voltage Drop (mV/A/mt)		Continuous Current Rating* (A)		Approximate Cable Mass
(mm²)	(mm)		(Ω/km)	1Φ	3Φ	1Φ	3Φ	(kg/100mt)
16	5,2	10,8	1 460	2,8	2,4	76	64	23,00
25	7,1	13,5	0,933	1,7	1,5	104	88	31,50
35	8,5	15,3	0,663	1,3	1,1	125	106	42,50
50	10,4	18,4	0,462	0,9	0,8	148	126	57,50
70	11,6	21,2	0,326	0,7	0,6	187	159	76,00
95	14,1	24,1	0,247	0,5	0,4	232	198	101,00
120	15,6	25,6	0,193	0,4		265	226	129,00
150	17,30	27,7	0,16	0,3	0,3	299	255	159,00
185	20,00	30,8	0,14			343	292	189,00

*Note
- Current ratings are based on cable installed in a cubicle and may vary depending on other applications.
- Assumed ambient air temperature is 30°C.
- Maximum conductor temperature is 70°C.
- Derating of maximum current for other ambient temperatures - use rating factor X as given below:

Ambient temperature °C	: 25	30	35	40	45
Rating factor X	: 1,04	1,00	0,95	0,91	0,85
Fault rating	: 115A/mm² (1 Second)				

Product Code

Cable Size (mm²)	Green	Blue	Grey	Red	Brown	Yellow	Black
16	F0002815	-	-	-	-	-	-
25	-	F0002816	-	-	-	-	-
35	-	-	F0002817		-	-	-
50	-	-	–	F0002818	-	-	-
70	-	-	-	-	F0002819	-	-
95	-	-	-	-	-	F0002820	-
120	–	-	-	-	-	-	F0002821
150	-	-	-	-	-	-	F0002822

Note - Items above with (-) in the Product Code column are available on special request.