



PVC NITRILE WELDING & PANELLING CABLE

CABLE DESCRIPTION

A 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.

Cables sizes from 70mm² to 185mm² are flame retardant, self-extinguishing.

APPLICATIONS

A flexible power cable where flexibility is needed in equipment such as:

- LV Transformer Connections
- General Wiring Applications
- Motor Control Centres
- Distribution Boards and Panels
- Welding (Automatic and Manual)

PROPERTIES

Specification: SANS 1574 Part 3

Temperature Range: -10°C to 70°C

Voltage Rating: 600/1000 volts

Core Identification: Welding Colour Code: Green, Blue, Grey, Red, Brown, Yellow and Black according to SANS 1576

Red, Black, Green/Yellow also available for each size up to 95mm²

Packaging: Coils cut to size or drummed to order

TECHNICAL DATA

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PROPERTIES						CURRENT RATING (Amps)						
Size Colour	OD mm	Core OD mm	Resistance Ω	Mass kg/100m	Volt Drop mV/A/m	Automatic Class of Welding		Manual Class of Welding		Very Sporadic	Panel wiring or power supply	
						100%	85%	60%	30%	20%	1∞	3∞
16	10.8	5.2	1.21	23	2.8	131	134	142	172	199	99	64
25	13.5	7.1	0.78	31.5	1.7	177	182	197	246	289	132	88
35	15.3	8.5	0.554	42.5	1.3	220	229	252	322	380	160	106
50	18.4	10.4	0.386	57.5	0.9	280	293	327	426	507	196	126
70	21.2	11.6	0.272	76	0.7	346	364	411	546	654	245	159
95	24.1	14.1	0.206	101	0.5	422	446	508	681	819	295	198
120	25.6	15.6	0.161	129	0.4	493	523	599	809	976	338	226
150	27.7	17.32	0.132	159	0.3	576	612	703	948	1142	395	255
185	30.8	20	0.108	189	0.3	659	700	804	1084	1306	452	292

Note: Current ratings are based on cable installed in a cubicle and may vary on other applications
 Assumed ambient air temperature is 30°C
 Maximum conductor temperature is 70°C
 Assumed duty cycle period 5 minutes