

**FLEXIBLE CABLES 0.6/1 kV**
**1C FLEXIBLE PVC GREEN/YELLOW V-90**

**Cable description**

Flexible PVC insulated only earth cable to AS/NZS 5000.1

**Application**

For use as protective earth in electrical installations. For use where improved aging properties to those of 75°C PVC are required because of higher ambient temperatures. Suitable for glanding.

**Approvals**

Suitable for fixed applications only in accordance with AS/NZS 3000 + AS/NZS 5000.1

**Behaviour in flame and fire:**

Flame propagation = AS/NZS 1660.5.6

**Temperature range**

Maximum operating temperature: +90°C

Minimum operating temperature: 0 °C

**Minimum bending radius**

Installed cables: 4D

During installation: 6D

**Resistance to**

Chemical exposure: Occasional

Mechanical impact: Light

Water exposure: Occasional condensation

Solar radiation and

weather exposure: Occasional

**Cable design**

Conductor:

Flexible bunched annealed copper conductor to AS/NZS 1125 (Class 5)

Insulation:

V-90 PVC

Colour: Green/yellow

**Installation conditions**

Industrial equipment

In conduit

Machines

Internal wiring

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**Physical & electrical characteristics**

**1C FLEXIBLE PVC GREEN/YELLOW V-90 / For fixed installation**

Product code	Conductor		Nominal insulation thickness mm	Cable		Approx. mass kg/100 m	Min. installed bending radius mm
	Nominal C.S.A. mm <sup>2</sup>	Nominal diameter mm		Overall diameter			
				Minimum mm	Maximum mm		
1.0FFEW	1.0	1.3	0.8	2.9	3.0	1.6	12
1.5FFEW	1.5	1.5	0.8	3.1	3.2	2.0	13
2.5FFEW	2.5	2.0	0.8	3.6	3.7	3.0	15
4FFEW	4	2.7	1.0	4.6	4.7	5.4	19
6FFEW	6	3.5	1.0	5.4	5.6	8.0	22
10FFEW	10	4.2	1.0	6.1	6.3	11	25
16FFEW	16	5.3	1.0	7.2	7.4	16	30
25FFEW	25	6.7	1.2	8.9	9.1	25	40
35FFEW	35	7.9	1.2	10.1	10.3	34	45
50FFEW	50	9.5	1.4	12.1	12.3	49	50
70FFEW	70	11.3	1.4	13.9	14.2	67	60
95FFEW	95	13.0	1.6	16.0	16.2	89	65
120FFEW	120	14.7	1.6	17.6	17.9	112	75
150FFEW	150	16.5	1.8	19.8	20.2	140	85
185FFEW	185	18.2	2.0	21.9	22.2	170	90
240FFEW	240	20.9	2.2	25	25.4	223	105
300FFEW	300	23.5	2.4	27.9	28.4	279	115
400FFEW	400	26.9	2.6	31.7	32.2	365	130

**1C FLEXIBLE PVC GREEN/YELLOW V-90 / Electrical characteristics**

Conductor nominal C.S.A. mm <sup>2</sup>	Maximum D.C. resistance at 20°C Ω/km	Reactance per core (Trefoil, Touching) Ω/km
1.0	19.5	0.116
1.5	13.3	0.109
2.5	7.98	0.101
4	4.95	0.100
6	3.30	0.0954
10	1.91	0.0876
16	1.21	0.0835
25	0.780	0.0829
35	0.554	0.0801
50	0.386	0.0799
70	0.272	0.0773
95	0.206	0.0771
120	0.161	0.0753
150	0.129	0.0755
185	0.106	0.0754
240	0,0801	0,0749
300	0,0641	0,0747
400	0,0486	0,0738