

**TECHNICAL DATA SHEET No. 11 rev. 2**

## ELEKTRA HEATING CABLE Type VCD 35 W/m, 240V

Series resistant double conductor cable

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### 1. Introduction

The ELEKTRA VCD 35 heating cables are ready-to-install heating sets, which have been designed for floor heating systems specially for PAP Heating Solutions – AUSTRALIA. The XLPE insulation and PVC outer sheath are extremely resistant to concrete, water and soil.

### 2. Technical Data

Construction:	Heating cable: <ul style="list-style-type: none"> <li>- Heating conductor (spiral and stranded wires)</li> <li>- XLPE insulation</li> <li>- Screen (AL/PET 9/12 tape + tinned copper braiding)</li> <li>- Heat-resistant PVC outer sheath</li> </ul> Cold tail: <ul style="list-style-type: none"> <li>- H05VV-F 3G1.5 or 3G2.5 or 3G4.0 mm<sup>2</sup>, 2.5 m</li> </ul>
Conductor form:	Flat
Dimensions:	from 5.20 x 7.20 mm to 6.40 x 8.80 mm
Resistance range:	0.046 Ω/m to 400 Ω/m
Nominal power rating	35 W/m
Max. operating temperature:	95 °C
Peak withstand temperature:	110 °C
Nominal voltage for:	
- heating cable	500 V AC
- heating unit	240 V AC
Test (dielectric) voltage:	2500 V AC
Standard for:	
- heating cable	IEC 60800
- heating unit	EN 60335-1

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### 3. Cable construction



### 4. Technical data

	Heating unit type	Heating cable		Length m	Heating unit resistance +10%, -5% Ω	Nominal power output, +5%, -10% W
		type	resistance			
			Ω/m			
1	<b>VCD 35/70 240V</b>	VCSD-0	400	<b>2.0</b>	822.9	<b>70</b>
2	<b>VCD 35/105 240V</b>	VCSD-1	180	<b>3.0</b>	548.6	<b>105</b>
3	<b>VCD 35/140 240V</b>	VCSD-2	100	<b>4.0</b>	411.4	<b>140</b>
4	<b>VCD 35/175 240V</b>	VCSD-3	64.0	<b>5.0</b>	329.1	<b>175</b>
5	<b>VCD 35/215 240V</b>	VCSD-4	44.8	<b>6.0</b>	267.9	<b>215</b>
6	<b>VCD 35/265 240V</b>	VCD-0	29.7	<b>7.5</b>	217.4	<b>265</b>
7	<b>VCD 35/325 240V</b>	VCD-1	19.0	<b>9.5</b>	177.2	<b>325</b>
8	<b>VCD 35/395 240V</b>	VCD-2	13.2	<b>11.0</b>	145.8	<b>395</b>
9	<b>VCD 35/460 240V</b>	VCD-3	9.71	<b>13.0</b>	125.2	<b>460</b>
10	<b>VCD 35/520 240V</b>	VCD-4	7.43	<b>15.0</b>	110.8	<b>520</b>
11	<b>VCD 35/630 240V</b>	VCD-5	5.27	<b>17.5</b>	91.43	<b>630</b>
12	<b>VCD 35/710 240V</b>	VCD-6	3.96	<b>20.5</b>	81.13	<b>710</b>
13	<b>VCD 35/820 240V</b>	VCD-7	3.05	<b>23.0</b>	70.24	<b>820</b>
14	<b>VCD 35/890 240V</b>	VCD-8	2.50	<b>26.0</b>	64.72	<b>890</b>
15	<b>VCD 35/1100 240V</b>	VCD-9	1.65	<b>32.0</b>	52.36	<b>1100</b>
16	<b>VCD 35/1370 240V</b>	VCD-10	1.08	<b>39.0</b>	42.04	<b>1370</b>
17	<b>VCD 35/1550 240V</b>	VCD-10A	0.826	<b>45.0</b>	37.16	<b>1550</b>
18	<b>VCD 35/1790 240V</b>	VCD-11	0.633	<b>51.0</b>	32.18	<b>1790</b>
19	<b>VCD 35/2150 240V</b>	VCD-11A	0.435	<b>62.0</b>	26.79	<b>2150</b>
20	<b>VCD 35/2360 240V</b>	VCD-12	0.360	<b>68.0</b>	24.41	<b>2360</b>
21	<b>VCD 35/2850 240V</b>	VCD-13	0.253	<b>80.0</b>	20.21	<b>2850</b>
22	<b>VCD 35/3050 240V</b>	VCD-14	0.218	<b>87.0</b>	18.89	<b>3050</b>
23	<b>VCD 35/3260 240V</b>	VCD-14A	0.191	<b>93.0</b>	17.67	<b>3260</b>
24	<b>VCD 35/3400 240V</b>	VCD-15	0.175	<b>97.0</b>	16.94	<b>3400</b>
25	<b>VCD 35/3720 240V</b>	VCD-16	0.145	<b>107.0</b>	15.48	<b>3720</b>
26	<b>VCD 35/3950 240V</b>	VCD-17	0.128	<b>115.0</b>	14.58	<b>3950</b>
27	<b>VCD 35/4080 240V</b>	VCD-17A	0.119	<b>120.0</b>	14.12	<b>4080</b>
28	<b>VCD 35/4420 240V</b>	VCD-18	0.103	<b>125.0</b>	13.03	<b>4420</b>
29	<b>VCD 35/4860 240V</b>	VCD-18A	0.0878	<b>135.0</b>	11.85	<b>4860</b>
30	<b>VCD 35/5350 240V</b>	VCD-19	0.0695	<b>155.0</b>	10.77	<b>5350</b>
31	<b>VCD 35/6550 240V</b>	VCD-20	0.0464	<b>190.0</b>	8.794	<b>6550</b>

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