



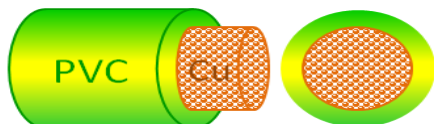
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Australia Pacific Electric Cables Pty Ltd

ABN 23 068 447 763

Single Core Flexible PVC Cable 0.6/1kV Cu Cl5/PVC

* Cable drawing



* Notes:

1. Electrical characteristics :

Voltage Rating : 0.6/1kV
HV Test (5 mins) : 3.5kV
Insulation Spark Test : 15kV
Min. Insulation Resistance Constan 40GΩ.m

2. Operating Temperature :

Conductor : -25°C~90°C
Short Circuit (5 secs) : 160°C

The minimum ambient temperature is 0°C after insulation and only when cables in a fixed position.

3. Cable Configuration :

1C 16-300mm² Cu Class 5/PVC V90 Flexible Wire Cable

4. Cable Construction :

Conductor : Plain Annealed Copper Class 5
Binder: Mica tape
Insulation : PVC V90

5. Cable Identification :

When green/yellow is used, one colour shall cover not less than 30% and not more than 70% of the surface area, with the other covering the remainder of the surface.(AS/NZS:3000:2007 clause 3.8.1)

Insulation colour: Red, White, Blue, Black, Green/yellow

6. Cable Marking :

APEC CURRENT YEAR V90 ELECTRIC CABLE 0.6/1kV XXSQMM CU AS/NZS5000.1

* Technical data

Construction & Raw material description	Unit	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
Product Code	-	FX016E	FX025E	FX035E	FX050E	FX070E	FX095E	FX120E	FX150E	FX185E	FX240E	FX300E
Conductor Cross section (CSA)	mm ²	16	25	35	50	70	95	120	150	185	240	300
Wire OD (compacted conductor)	mm	0.41	0.41	0.41	0.41	0.51	0.51	0.51	0.51	0.51	0.51	0.51
Nominal conductor OD Size	mm	5.39	6.68	8.51	10.12	11.55	13.08	14.96	16.60	18.30	21.30	23.60
Non-woven tape thickness	mm	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Nominal insulation thickness	mm	1.0	1.2	1.2	1.4	1.4	1.6	1.6	1.8	2.0	2.2	2.4
Approx. Overall Diameter (±10%)	mm	8.0	9.7	11.5	13.5	14.9	16.9	18.8	20.8	22.9	26.3	29.0
Approx. Weight	kg/km	170	265	362	517	708	960	1105	1495	1843	2372	2951
Max DC resistance of conductor at 20 °C	Ω/km	1.21	0.78	0.554	0.386	0.272	0.206	0.161	0.129	0.106	0.0801	0.0641
Minimum Bending Radius-fixed	mm	64.0	77.6	92.0	108.0	119.2	135.2	150.4	166.4	183.2	210.4	232.0
Minimum Bending Radius-during installation	mm	96	116.4	138	162	178.8	202.8	225.6	249.6	274.8	315.6	348
Maximum Pulling Tension	kN	0.32	0.50	0.70	1.00	1.40	1.90	2.40	3.00	3.70	4.80	6.00
Remark:												

* Standard compliance:

AS/NZS 5000.1 Part 1: For working voltages up to and including 0.6/1 (1.2kV).
AS/NZS 3808 Insulating and sheathing materials for electric cables
AS/NZS 1660 Test methods for electric cables, cords and conductors
AS/NZS 1660.5.6 Fire Tests-Tests for vertical flame propagation for a single insulated wire or cable
AS/NZS 1125 Conductors in insulated electric cables and flexible cords

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