



APEC (Australia Pacific Electric Cables) Pty. Ltd is an independent, viable alternative to traditional suppliers and offers customers a range of extra advantages.

- Our purpose-built Brisbane factory introduces modern, innovative cable making equipment to Australia. Because our processes are efficient and cost-effective the result is a quality product at very competitive pricing. We also have sales and distribution centres in New South Wales, Western Australia and Victoria fully equipped to service your needs.
- Because APEC's products are backed by more than 60 years' combined experience in cable design, you are assured of high performance in the field.
- We recognize the importance of providing professional technical support, on time deliveries and quality customer service.

Whilst every care has been taken in the preparation of this catalogue, APEC Cables Pty Ltd take no responsibility for any errors and or omissions. The technical specifications within this manual are intended as a guide only, and reference must be made by any person using this manual to the appropriate Australian Standard and or to local electricity supply authority rulings.

The company reserves the right to make changes in products without notice.

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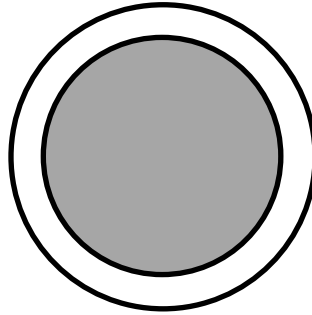
## INDEX – POWER CABLES

	<i>Page</i>		<i>Page</i>
<b><u>PVC INSULATED</u></b>		<b><u>TRAFFIC CABLE</u></b>	
1 Core 1.5mm to 150mm	1	Twin Flat	25
		Multicore Control	26
<b><u>PVC INSULATED / PVC SHEATHED</u></b>			
1 Core 1mm to 16mm	2		
2 Core Flat	3		
2 Core + Insulated Earth Flat	4	<b><u>XLPE ALUMINIUM</u></b>	27
2 Core + Insulated Earth Circular	5		
3 Core + Insulated Earth Circular	6	<b><u>ALUMINIUM AERIAL BUNDLE</u></b>	28
4 Core + Insulated Earth Circular	7		
Multicore + Insulated Earth Control	8		
<b><u>XLPE INSULATED / PVC SHEATHED</u></b>		<b><u>FIRE RATED CABLE</u></b>	
1 Core 16mm to 630mm	9		
3 Core + Insulated Earth Circular	10	Single Core	29
4 Core + Insulated Earth Circular	11	Multi Core	30
4 Core Service Cable	12		
<b><u>PVC / SWA / PVC</u></b>		<b><u>GENERAL INFORMATION</u></b>	
2 Core + Insulated Earth SWA	13	Minimum Copper Earthing	
3 Core + Insulated Earth SWA	14	Conductor size	31
4 Core + Insulated Earth SWA	15		
<b><u>XLPE / SWA / PVC</u></b>		<b><u>ELECTRICAL DATA</u></b>	
2 Core + Insulated Earth XLPE/ SWA	16		
3 Core + Insulated Earth XLPE/ SWA	17	Maximum D.C. Resistance Values	Table 1
4 Core + Insulated Earth XLPE/ SWA	18		
<b><u>MULTICORE FLEXIBLE</u></b>		<b><u>TECHNICAL DATA</u></b>	
Fig. 8	19	Current Ratings + Voltage Drop	Tables 2 - 9
2 Core Ordinary Duty	20		
3 Core Ordinary Duty	21		
4 Core Ordinary Duty	22		
5 Core Ordinary Duty	23		
3 Core Heavy Duty	24		

# PVC POWER CABLES

PVC Insulated, Unsheathed,  
Single core,  
0.6 / 1 kV to AS/NZS 5000.1

**Conductor:** annealed copper.  
**Insulation:** PVC  
compounds for continuous  
conductor temperature of 90 °C.



AUSTRALIA PACIFIC ELECTRIC CABLES

## Standard Colours

**1.5 to 16mm<sup>2</sup>**  
Black, Blue, Red, White &  
Earth (green/yellow)

**25 & 35mm<sup>2</sup>**  
Red, Black & Earth (green/yellow)

**\*50 – 150mm<sup>2</sup>**  
Available in Earth (green/yellow) only

Nominal conductor area mm <sup>2</sup>	Average insulation thickness mm	Approx. overall diameter mm	Approx. mass kg/100m	Product Code
1.5	0.8	3.2	2.3	IVM105
Earth	0.6	2.8	2.0	IVM105E
2.5	0.8	3.7	3.5	IVM205
Earth	0.7	3.5	3.3	IVM205E
4.0	1.0	4.7	5.6	IVM004
6.0	1.0	5.2	7.7	IVM006
10.0	1.0	6.2	12.0	IVM010
16.0	1.0	7.2	18.1	IVM016
25.0	1.2	9.0	28.6	IVM025
35.0	1.2	10.2	38.5	IVM035
*50.0	1.4	11.8	52.1	IVM050E
*70.0	1.4	13.6	73.4	IVM070E
*95.0	1.6	16.0	101.4	IVM095E
*120.0	1.6	17.6	126.3	IVM120E
*150.0	1.8	19.6	155.5	IVM150E
*50 – 150mm Available in Green/Yellow (earth) only				

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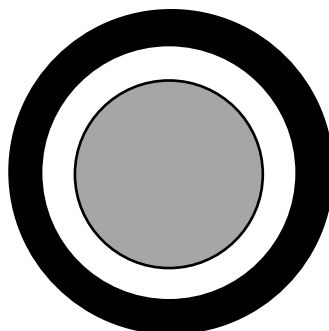
# PVC POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

PVC Insulated, PVC Sheathed,  
Single core,  
1.0 to 16mm<sup>2</sup> 450 / 750 V to AS 5000.2

**Conductor:** annealed copper.  
**Insulation and sheath:** PVC  
compounds for continuous  
conductor temperature of  
90°C.



## Standard Colours

**Core:** Red or Black.

**Sheath:** White

Nominal conductor area mm <sup>2</sup>	Average insulation thickness mm	Approximate overall diameter mm	Approximate mass kg/100m	Product Code
1.0	0.6	4.1	2.9	VVM113
1.5	0.6	4.4	3.5	VVM105
2.5	0.7	5.2	5.2	VVM205
4.0	0.8	6.1	7.7	VVM004
6.0	0.8	6.7	10.0	VVM006
10.0	1.0	8.1	15.6	VVM010
16.0	1.0	9.3	22.7	VVM016

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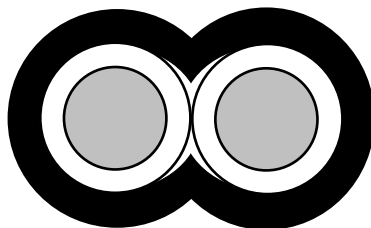
# PVC POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

**PVC Insulated, PVC Sheathed,  
Two core flat,  
450 / 750 V to AS/NZS 5000.2**

**Conductor:** annealed copper.  
**Insulation and sheath:** PVC  
compounds for continuous  
conductor temperature of  
90 °C.



## Standard Colours

**Cores:** Red and Black or  
Red and White.

**Sheath:** White

\*Also available in Red Sheath  
(Fire Alarm Cable)

Nominal conductor area mm <sup>2</sup>	Average insulation thickness mm	Approximate overall dimensions mm	Approximate mass kg/100m	Product code
1.0	0.6	6.7 x 4.3	5.4	VFM113C02RB VFM113C02RW
*1.5	0.6	7.4 x 4.7	6.7	VFM105C02RB VFM105C02RW *VFM105TAR
2.5	0.7	9.1 x 5.6	10.5	VFM205C02RB VFM205C02RW
4.0	0.8	10.8 x 6.5	15.5	VFM004C02RB VFM004C02RW
6.0	0.8	11.9 x 7.1	20.3	VFM006C02RB
10.0	1.0	14.8 x 8.7	32.2	VFM010C02RB
16.0	1.0	17.1 x 9.9	46.5	VFM016C02RB

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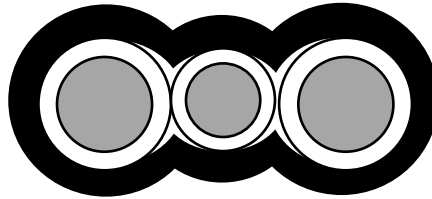
# PVC POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

PVC Insulated, PVC Sheathed,  
Two core plus insulated earth flat,  
1.0 to 16mm<sup>2</sup> 450 / 750 V to AS/NZS 5000.2

**Conductor:** annealed copper.  
**Insulation and sheath:** PVC compounds for continuous conductor temperature of 90 °C.



## Standard Colours

**Cores:** Red and Black  
Green/Yellow (earth)  
**Sheath:** White  
\*2.5mm<sup>2</sup> White, Black or Grey

Power Conductor		Earth Conductor		Approximate overall dimensions	Approx. mass	Product Code
Nominal conductor area	Average insulation thickness	Nominal conductor area	Average insulation thickness			
mm <sup>2</sup>	mm	mm	mm	mm	kg/100m	
1.0	0.6	1.5	0.6	9.4 x 4.7	8.4	VFM113E02W
1.5	0.6	1.5	0.6	10.2 x 4.7	9.6	VFM105E02W
* 2.5	0.7	2.5	0.7	12.6 x 5.6	14.8	VFM205E02W *VFM205E02B *VFM205E02G
4.0	0.8	2.5	0.7	14.3 x 6.6	20.1	VFM004E02W
6.0	0.8	2.5	0.7	15.4 x 7.1	24.9	VFM006E02W
10.0	1.0	4.0	0.8	19.1 x 8.7	38.9	VFM010E02W
16.0	1.0	6.0	0.8	21.9 x 9.9	55.6	VFM016E02W

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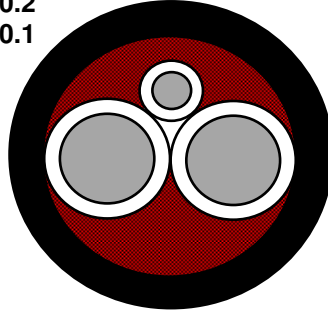
# PVC POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

PVC Insulated, PVC Sheathed,  
Two core circular plus insulated earth,

1.5 to 6mm<sup>2</sup> 450/750V to AS/NZS 5000.2  
10 to 95mm<sup>2</sup> 0.6/1kV to AS/NZS 5000.1



**Conductor:** annealed copper.  
**Insulation and sheath:** PVC compounds for continuous conductor temperature of 90 °C.

## Standard Colours

**Cores:** Red, Black  
Green/Yellow (Earth)  
**Sheath:** Orange.

Power Cores		Earth Core		Approximate overall Diameter	Approx. mass	Product code
Nominal conductor area	Average insulation thickness	Nominal conductor area	Average insulation thickness			
mm <sup>2</sup>	mm	mm <sup>2</sup>	mm	mm	kg/100m	
1.5	0.6	1.5	0.6	8.5	11.6	MVM105E02
2.5	0.7	2.5	0.7	10.1	16.7	MVM205E02
4.0	0.8	2.5	0.7	11.3	23.1	MVM004E02
6.0	0.8	2.5	0.7	12.2	28.6	MVM006E02
10.0	1.0	4.0	1.0	16.1	44.7	MVM010E02
16.0	1.0	6.0	1.0	18.0	61.4	MVM016E02
25.0	1.2	6.0	1.0	20.7	86.0	MVM025E02
35.0	1.2	10.0	1.0	23.0	113.2	MVM035E02

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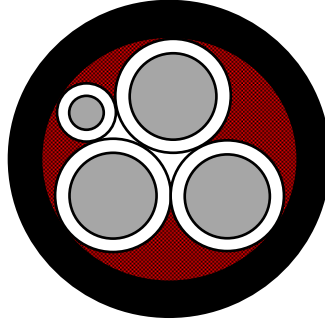
# PVC POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

PVC Insulated, PVC Sheathed,  
Three core circular plus insulated earth,

1.5 to 6mm<sup>2</sup> 450/750V to AS/NZS 5000.2  
10 to 95mm<sup>2</sup> 0.6/1kV to AS/NZS 5000.1



**Conductor:** annealed copper.

**Insulation and sheath:** PVC compounds for continuous conductor temperature of 90°C.

## Standard Colours

**Cores:** Red, White, Blue,  
Green/Yellow (Earth)

**Sheath:** Orange

Power Cores		Earth Core		Approx. overall diameter mm	Approx. mass kg/100m	Product Code
Nominal conductor area mm <sup>2</sup>	Average insulation thickness mm	Nominal conductor area mm <sup>2</sup>	Average insulation thickness mm			
1.5	0.6	1.5	0.6	9.3	14.3	MVM105E03
2.5	0.7	2.5	0.7	11.1	22.5	MVM205E03
4.0	0.8	2.5	0.7	12.6	30.1	MVM004E03
6.0	0.8	2.5	0.7	13.8	34.8	MVM006E03
10.0	1.0	4.0	1.0	17.9	58.5	MVM010E03
16.0	1.0	6.0	1.0	20.1	81.8	MVM016E03
25.0	1.2	6.0	1.0	23.4	117.0	MVM025E03
35.0	1.2	10.0	1.0	26.1	154.4	MVM035E03

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# PVC POWER CABLES



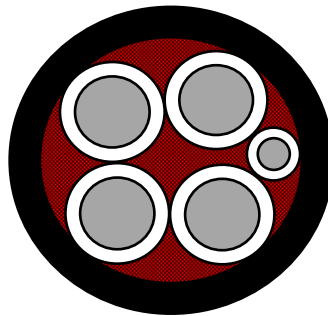
AUSTRALIA PACIFIC ELECTRIC CABLES

PVC Insulated, PVC Sheathed,  
Four core circular plus insulated earth,

1.5 to 6mm<sup>2</sup> 450/750V to AS/NZS 5000.2  
10 to 95mm<sup>2</sup> 0.6/1kV to AS/NZS 5000.1

**Conductor:** annealed copper.

**Insulation and sheath:** PVC compounds for continuous conductor temperature of 90°C.



## Standard Colours

**Cores:** Red, White, Blue, Black  
Green/Yellow (Earth).

**Sheath:** Orange.

Power Conductor		Earth Conductor		Approx. overall diameter	Approx. mass kg/100m	Product Code
Nominal conductor area	Average insulation thickness	Nominal conductor area	Average insulation thickness			
mm <sup>2</sup>	mm	mm <sup>2</sup>	mm	mm		
1.5	0.6	1.5	0.6	10.1	17.2	MVM105E04
2.5	0.7	2.5	0.7	12.1	27.5	MVM205E04
4.0	0.8	2.5	0.7	14.0	37.3	MVM004E04
6.0	0.8	2.5	0.7	15.3	42.5	MVM006E04
10.0	1.0	4.0	1.0	19.7	71.9	MVM010E04
16.0	1.0	6.0	1.0	22.3	102.0	MVM016E04
25.0	1.2	6.0	1.0	26.2	148.7	MVM025E04
35.0	1.2	10.0	1.0	29.4	197.6	MVM035E04

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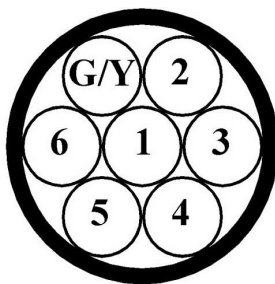
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# PVC CONTROL CABLES

PVC Insulated, PVC Sheathed,  
Multi core plus insulated earth,  
0.6/1kv to AS/NZS 5000.1



AUSTRALIA PACIFIC ELECTRIC CABLES

**Conductor:** annealed copper.

**Insulation and sheath:** PVC  
compounds for continuous  
conductor temperature of 90 °C.

**Standard Colours**

**Cores:** White numbered and  
Green/Yellow (Earth)

**Sheath:** Black

Nominal conductor area cores and earth  mm <sup>2</sup>	Number of cores excluding earth	Average sheath thickness  mm	Approx. Nominal Overall diameter  mm	Approx. mass kg/100m	Product Code
1.5 (7/0.50)	2	1.8	10.5	14.1	VCM105E02B5K1
1.5 (7/0.50)	4	1.8	12.3	21.6	VCM105E04B5K1
1.5 (7/0.50)	5	1.8	13.2	23.3	VCM105E05B5K1
1.5 (7/0.50)	6	1.8	13.3	25.5	VCM105E06B5K1
1.5 (7/0.50)	8	1.8	15.8	32.3	VCM105E08B5K1
1.5 (7/0.50)	10	1.8	16.5	37.4	VCM105E10B5K1
1.5 (7/0.50)	12	1.8	17.8	43.3	VCM105E12B5K1
1.5 (7/0.50)	15	1.8	18.7	50.8	VCM105E15B5K1
1.5 (7/0.50)	20	1.8	20.8	63.8	VCM105E20B5K1
1.5 (7/0.50)	25	1.8	22.9	77.1	VCM105E25B5K1
1.5 (7/0.50)	30	1.8	25.1	90.1	VCM105E30B5K1
2.5 (7/0.67)	4	1.8	13.8	29.5	VCM205E04B5K1
2.5 (7/0.67)	6	1.8	14.9	35.8	VCM205E06B5K1
2.5 (7/0.67)	8	1.8	17.8	46.1	VCM205E08B5K1
2.5 (7/0.67)	10	1.8	18.6	53.1	VCM205E10B5K1
2.5 (7/0.67)	12	1.8	20.1	61.4	VCM205E12B5K1
2.5 (7/0.67)	15	1.8	21.2	73.0	VCM205E15B5K1
2.5 (7/0.67)	20	1.8	23.5	93.7	VCM205E20B5K1
2.5 (7/0.67)	25	1.8	26	111.9	VCM205E25B5K1
2.5 (7/0.67)	30	1.8	28.7	133.7	VCM205E30B5K1

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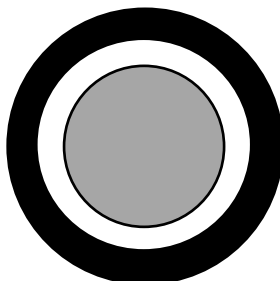
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# XLPE POWER CABLES

XLPE Insulated, PVC Sheathed,  
Single core,  
0.6 / 1 kV to AS/NZS 5000.1



AUSTRALIA PACIFIC ELECTRIC CABLES



**Conductor:** annealed copper

**Insulation:** XLPE

**Sheath:** PVC

Compounds for continuous  
conductor temperature of 90°C.

## Standard Colours

**Core:** Natural.

**Sheath:** Black.

Nominal conductor area mm <sup>2</sup>	Average insulation thickness mm	Approximate overall diameter mm	Approximate mass kg/100m	Product code
16	0.7	9.5	21.5	XV016C01
25	0.9	11.3	32.4	XV025C01
35	0.9	12.5	42.5	XV035C01
50	1	13.9	55.7	XV050C01
70	1.1	16	78.1	XV070C01
95	1.1	18.1	105.4	XV095C01
120	1.2	20.1	131.7	XV120C01
150	1.4	22.2	161.2	XV150C01
185	1.6	24.6	201.1	XV185C01
240	1.7	27.6	260.9	XV240C01
300	1.8	30.5	324.2	XV300C01
400	2	34.1	412.1	XV400C01
500	2.2	38	516.6	XV500C01
630	2.4	42.9	672.3	XV630C01

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# XLPE POWER CABLES

AUSTRALIA PACIFIC ELECTRIC CABLES

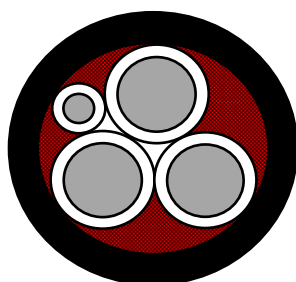
XLPE Insulated, PVC Sheathed,  
Three core circular plus insulated earth,  
25 to 95mm<sup>2</sup> 0.6 / 1 kV to AS/NZS 5000.1

**Conductor:** annealed copper.

**Insulation:** XLPE

**Sheath:** PVC

Compounds for continuous  
conductor temperature of 90°C.



## Standard Colours

**Cores:** Red, Natural, Blue,  
Green (Earth).

**Sheath:** Orange.

Power Conductor		Earth Conductor		Approximate overall diameter	Approximate mass	Product Code
Nominal conductor area	Average insulation thickness	Nominal conductor area	Average insulation thickness			
mm <sup>2</sup>	mm	mm <sup>2</sup>	mm	mm	kg/100m	
25.0	0.9	6.0	0.7	22.0	105.1	MX025E03
35.0	0.9	10.0	0.7	24.6	141.3	MX035E03
50.0	1.0	16.0	0.7	27.9	188.2	MX050E03
70.0	1.1	25.0	0.9	33.0	270.0	MX070E03
95.0	1.1	25.0	0.9	36.7	353.8	MX095E03

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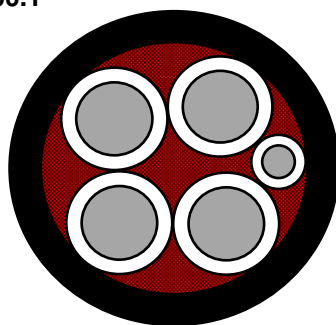


# XLPE POWER CABLES

AUSTRALIA PACIFIC ELECTRIC CABLES

XLPE Insulated, PVC Sheathed,  
Four core circular  
plus insulated earth,  
16 to 120mm<sup>2</sup> 0.6 / 1 kV to AS/NZS 5000.1

**Conductor:** annealed copper.  
**Insulation:** XLPE  
**Sheath:** PVC  
Compounds for continuous  
conductor temperature of 90°C.



## Standard Colours

**Cores:** Red, Natural, Blue, Black,  
Green (Earth).  
**Sheath:** Orange.

Power Conductor		Earth Conductor		Approximate overall diameter	Approximate mass	Product Code
Nominal conductor area	Average insulation thickness	Nominal conductor area	Average insulation thickness			
mm <sup>2</sup>	mm	mm <sup>2</sup>	mm	mm	kg/100m	
16.0	0.7	6.0	0.7	20.6	90.5	MX016E04
25.0	0.9	6.0	0.7	24.5	132.9	MX025E04
35.0	0.9	10.0	0.7	27.5	182.0	MX035E04
50.0	1.0	16.0	0.7	31.5	242.6	MX050E04
70.0	1.1	25.0	0.9	37.3	344.0	MX070E04
95.0	1.1	25.0	0.9	41.7	456.0	MX095E04
120.0	1.2	35.0	0.9	46.5	574.8	MX120E04

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# ***XLPE SERVICE CABLES***



AUSTRALIA PACIFIC ELECTRIC CABLES

**XLPE Insulated, PVC Sheathed,  
Four core circular**

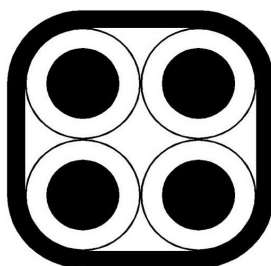
**25mm<sup>2</sup> to 50mm<sup>2</sup> 0.6 / 1 kV to AS/NZS 4026.1**

**Conductor** : annealed copper.

**Insulation**: XLPE

**Sheath** : PVC

Compounds for continuous  
conductor temperature of 90 °C.



**Standard colours**

**Cores** :

Red, Natural, Blue, Black

**Sheath**: Black

<b>Power Conductor</b>					
<b>Nominal conductor area</b>	<b>Average insulation thickness</b>	<b>Thickness of sheath</b>	<b>Approximate overall dimension</b>	<b>Approximate mass</b>	<b>Product Code</b>
<b>mm<sup>2</sup></b>	<b>mm</b>	<b>mm</b>	<b>mm</b>	<b>kg/100m</b>	
16.0	1.5	1.3	19.6 x 19.6	83.6	MX016S04
25.0	1.7	1.3	27.3 x 27.3	128.5	MX025S04
35.0	1.7	1.3	30.1 x 30.1	169.0	MX035S04
50.0	1.8	1.3	33.7 x 33.7	221.7	MX050S04

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# PVC SWA POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

Two Core Plus Earth Insulated,  
Circular Cable, and Bedded,  
Steel Wire Armoured, PVC Sheathed  
0.6/1kV to AS/NZS 5000.1



**Conductor** : annealed copper.  
**Insulation and sheath** : PVC  
Compounds for continuous  
conductor temperature of 90 °C.

## **Standard colours**

**Cores** : Red, Black  
Green / Yellow (Earth)  
**Sheath**: Orange

Power Conductor		Earth Conductor		Thickness of bedding	Nominal armour wire dia.	Thickness of oversheath	Approx. overall diameter	Approx. mass kg/100m	Product Code
Nominal conductor area	Average insulation thickness	Nominal conductor area	Average Insulation thickness						
mm <sup>2</sup>	mm	mm <sup>2</sup>	mm	mm	mm	mm	mm		
1.5	0.8	1.5	0.8	1	0.9	1.8	14.7	40.0	MS105E02
2.5	0.8	2.5	0.8	1	0.9	1.8	15.6	47.6	MS205E02
4	1	2.5	0.8	1	0.9	1.8	17	56.8	MS004E02
6	1	2.5	0.8	1	1.25	1.8	18.8	73.0	MS006E02
10	1	4	1	1	1.25	1.8	20.8	91.9	MS010E02
16	1	6	1	1	1.25	1.8	22.9	114.2	MS016E02

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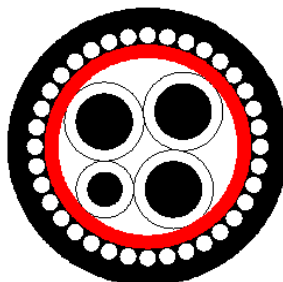
# PVC SWA POWER CABLES

Three Core Plus Earth Insulated,  
Circular Cable, and Bedded,  
Steel Wire Armoured, PVC Sheathed  
0.6/1kV to AS/NZS 5000.1



AUSTRALIA PACIFIC ELECTRIC CABLES

**Conductor** : annealed copper.  
**Insulation and sheath** : PVC  
Compounds for continuous  
conductor temperature of 90 °C.



## Standard colours

**Cores** : Red, White, Blue  
Green /Yellow (Earth)

**Sheath**: Orange

Power Conductor		Earth Conductor							
Nominal conductor area	Average insulation thickness	Nominal conductor area	Average Insulation thickness	Thickness of bedding	Nominal armour wire dia.	Thickness of oversheath	Approx. overall diameter	Approx. mass	Product Code
mm <sup>2</sup>	mm	mm <sup>2</sup>	mm	mm	mm	mm	mm	kg/100m	
1.5	0.8	1.5	0.8	1.0	0.9	1.8	15.5	46.0	MS105E03
2.5	0.8	2.5	0.8	1.0	0.9	1.8	16.5	53.5	MS205E03
4.0	1.0	2.5	0.8	1.0	1.25	1.8	19.0	73.2	MS004E03
6.0	1.0	2.5	0.8	1.0	1.25	1.8	20.2	85.6	MS006E03
10.0	1.0	4.0	1.0	1.0	1.25	1.8	22.4	109.3	MS010E03
16.0	1.0	6.0	1.0	1.0	1.60	1.8	25.4	155.4	MS016E03

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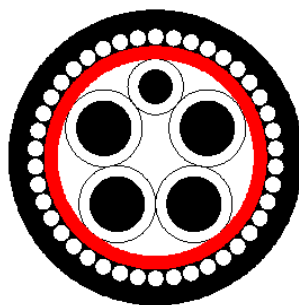
# PVC SWA POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

Four Core Plus Earth Insulated,  
Circular Cable, and Bedded,  
Steel Wire Armoured, PVC Sheathed  
0.6/1kV AS/NZS 5000.1

**Conductor** : annealed copper.  
**Insulation and sheath** : PVC  
Compounds for continuous  
conductor temperature of 90 °C.



## Standard colours

**Cores** : Red, White, Blue, Black  
Green / Yellow (Earth)

**Sheath** : Orange

Power Conductor		Earth Conductor							
Nominal conductor Area	Average insulation thickness	Nominal conductor area	Average Insulation thickness	Thickness of bedding	Nominal armour wire dia.	Thickness of oversheath	Approx. overall diameter	Approx. mass	Product Code
mm <sup>2</sup>	mm	mm <sup>2</sup>	mm	mm	mm	mm	mm	kg/100 m	
1.5	0.8	1.5	0.8	1.0	0.9	1.8	16.5	42.8	MS105E04
2.5	0.8	2.5	0.8	1.0	0.9	1.8	17.7	59.0	MS205E04
4.0	1.0	2.5	0.8	1.0	1.25	1.8	20.5	87.0	MS004E04
6.0	1.0	2.5	0.8	1.0	1.25	1.8	21.8	101.1	MS006E04
10.0	1.0	4.0	1.0	1.0	1.60	1.8	24.9	144.6	MS010E04
16.0	1.0	6.0	1.0	1.0	1.60	1.8	27.6	185.6	MS016E04

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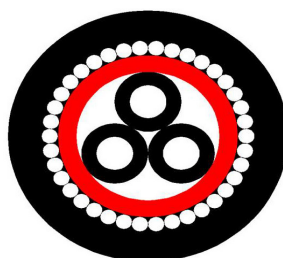
# XLPE PVC SWA POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

Two Core Plus Earth Insulated,  
Circular Cable, and Bedded,  
Steel Wire Armoured, PVC Sheathed  
0.6/1kV to AS/NZS 5000.1

**Conductor** : annealed copper.  
**Insulation** : XLPE  
**Sheath** : PVC  
Compounds for continuous  
conductor temperature of 90 °C.



## Standard colours

**Cores** : Red, Black  
Green /Yellow (Earth)  
**Sheath**: Orange

Power Conductor		Earth Conductor							
Nominal conductor Area	Average insulation thickness	Nominal conductor area	Average Insulation thickness	Thickness of bedding	Nominal armour wire dia.	Thickness of oversheath	Approx. overall diameter	Approx. mass	Product Code
mm <sup>2</sup>	mm	mm <sup>2</sup>	mm	mm	mm	mm	mm	kg/100m	
25.0	0.9	6.0	0.7	1.0	1.6	1.8	26.5	153.0	MXS025E02

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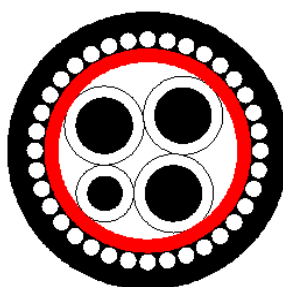
# XLPE PVC SWA POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

Three Core Plus Earth Insulated,  
Circular Cable, and Bedded,  
Steel Wire Armoured, PVC Sheathed  
25 to 120mm<sup>2</sup> 0.6/1kV to AS/NZS 5000.1

**Conductor** : annealed copper.  
**Insulation** : XLPE  
**Sheath** : PVC  
Compounds for continuous  
conductor temperature of 90 °C.



## Standard colours

**Cores** : Red, White, Blue  
Green /Yellow (Earth)  
**Sheath**: Orange

Power Conductor		Earth Conductor		Thickness of bedding	Nominal armour wire dia.	Thickness of oversheath	Approx. overall diameter	Approx. mass kg/100m	Product Code
Nominal conductor Area	Average insulation thickness	Nominal conductor area	Average Insulation thickness						
mm <sup>2</sup>	mm	mm <sup>2</sup>	mm	mm	mm	mm	mm		
25.0	0.9	6.0	0.7	1.0	1.60	1.7	27.3	180.0	MXS025E03
35.0	0.9	10.0	0.7	1.0	1.60	1.8	30.0	225.2	MXS035E03
50.0	1.0	16.0	0.7	1.0	1.60	1.9	32.5	275.0	MXS050E03
70.0	1.1	25.0	0.9	1.2	2.00	2.1	38.5	414.3	MXS070E03
95.0	1.1	25.0	0.9	1.2	2.00	2.2	42.4	515.4	MXS095E03
120.0	1.2	35.01	0.9	1.2	2.00	2.3	46.1	620.6	MXS120E03

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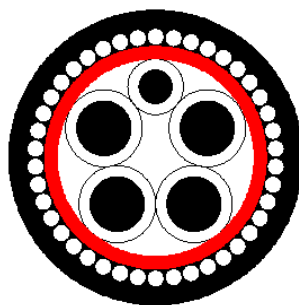
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# XLPE PVC SWA POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

Four Core Plus Earth Insulated,  
Circular Cable, and Bedded,  
Steel Wire Armoured, PVC Sheathed  
25 to 120mm<sup>2</sup> 0.6/1kV AS/NZS 5000.1



**Conductor** : annealed copper.  
**Insulation** : XLPE  
**Sheath** : PVC  
Compounds for continuous  
conductor temperature of 90°C.

## Standard colours

**Cores** : Red, White, Blue, Black  
Green / Yellow (Earth)  
**Sheath** : Orange

Power Conductor		Earth Conductor		Thickness of bedding	Nominal armour wire dia.	Thickness of oversheath	Approx. overall diameter	Approx. mass	Product Code
Nominal conductor Area	Average insulation thickness	Nominal conductor area	Average Insulation thickness						
mm <sup>2</sup>	mm	mm <sup>2</sup>	mm	mm	mm	mm	mm	kg/100 m	
25.0	0.9	6.0	0.7	1.0	1.60	1.8	30.3	225.3	MXS025E04
35.0	0.9	10.0	0.7	1.0	1.60	1.9	31.9	274.7	MXS035E04
50.0	1.0	16.0	0.7	1.0	2.0	2.0	36.8	379.0	MXS050E04
70.0	1.1	25.0	0.9	1.2	2.0	2.2	42.3	506.3	MXS070E04
95.0	1.1	25.0	0.9	1.2	2.0	2.3	46.7	636.2	MXS095E04
120.0	1.2	35.0	0.9	1.4	2.5	2.5	52.4	827.2	MXS120E04

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# PVC FLEXIBLE CORDS



AUSTRALIA PACIFIC ELECTRIC CABLES

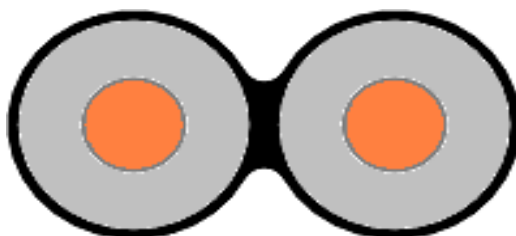
## **TWIN FIG 8** 250V to AS 3191

**Conductor:** annealed copper.  
**Insulation and sheath:** PVC

compounds for continuous  
conductor temperature of  
75°C.

### **Standard Colours**

**Sheath:** White  
- Black  
- Grey/Black  
- Red/White  
- White/Black



Nominal conductor area	Average insulation thickness	Approximate overall diameter	Approximate mass	Product Code
mm <sup>2</sup>	mm	mm	kg/100m	
Fig. 8				
0.75	0.8	2.8 x 6	2.8	Old - FX705T02 New - FFC22402

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# PVC FLEXIBLE CORDS



AUSTRALIA PACIFIC ELECTRIC CABLES

## Ordinary Duty

PVC Insulated, PVC Sheathed,  
2 Core  
250/440V to AS 3191

**Conductor:** annealed copper.  
**Insulation and sheath:** PVC  
compounds for continuous  
conductor temperature of 75 °C



### Standard Colours

**Cores:** Brown, Blue

**Sheath:** Grey, White

Nominal conductor area mm <sup>2</sup>	Average insulation thickness mm	Approximate overall diameter mm	Approximate mass kg/100m	Product Code
<b>2 CORE</b>				
0.75	0.6	6.90	6.5	Old - FXOD705C02W-1 New - FMC22402
1.0	0.6	6.95	7.0	Old - FXOD001C02G-1 New - FMC23202

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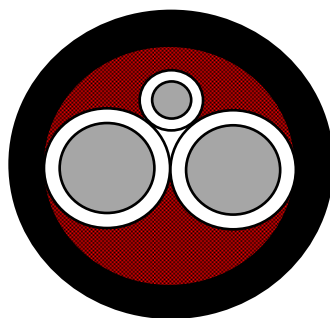
# PVC FLEXIBLE CORDS



AUSTRALIA PACIFIC ELECTRIC CABLES

## Ordinary Duty

PVC Insulated, PVC Sheathed,  
3 Core  
250/440V to AS 3191



**Conductor:** annealed copper.

**Insulation and sheath:** PVC compounds for continuous conductor temperature of 75°C.

### Standard Colours

**Cores:** Brown, Blue,  
Green/Yellow (Earth)

**Sheath:** Orange, Grey  
Black, White

Nominal conductor area mm <sup>2</sup>	Average insulation thickness mm	Average sheath thickness mm	Approximate overall diameter mm	Approximate mass kg/100m	Product Code
<b>3 CORE</b>					
0.75	0.6	0.8	6.9	6.7	Old - FXOD705C03G-1 New - FMC32402
1.0	0.6	0.8	7.35	7.7	Old - FXOD001C03G-1 New - FMC33202
1.5	0.7	0.9	8.6	10.8	Old - FXOD105C03G-1 New - FMC330025
2.5	0.8	1.1	10.1	17.3	Old - FXOD205C03G-1 New - FMC350025
4.0	0.8	0.9	12.8	22.8	Old - FXOD004C03G-1 New - FMC35603

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# PVC FLEXIBLE CORDS

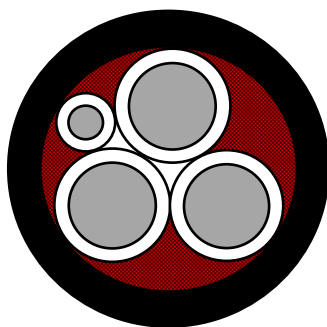


AUSTRALIA PACIFIC ELECTRIC CABLES

## Ordinary Duty

PVC Insulated, PVC Sheathed,  
4 Core  
250/440V to AS 3191

**Conductor:** annealed copper.  
Insulation and sheath: PVC  
compounds for continuous  
conductor temperature of 75°C.



### Standard Colours

**Cores:** Brown, Blue,  
White, Green/Yellow (Earth)

**Sheath:** Grey

Nominal conductor area mm <sup>2</sup>	Average insulation thickness mm	Average sheath thickness mm	Approximate overall diameter mm	Approximate mass kg/100m	Product Code
<b>4 CORE</b>					
1.0	0.6	0.9	7.85	9.8	Old - FXOD001C04G-1 New - FMC43202
1.5	0.7	1.0	9.2	13.6	Old - FXOD105C04G-1 New - FMC430025
2.5	0.8	1.1	11.2	20.5	Old - FXOD205C04G-1 New - FMC450025

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# PVC FLEXIBLE CORDS

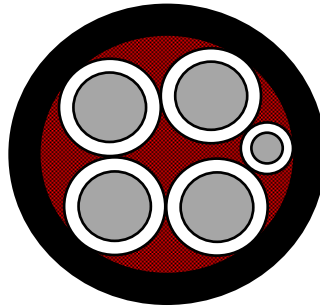


AUSTRALIA PACIFIC ELECTRIC CABLES

## Ordinary Duty

PVC Insulated, PVC Sheathed,  
5 Core  
250/440V to AS 3191

**Conductor:** annealed copper.  
**Insulation and sheath:** PVC  
compounds for continuous  
conductor temperature of 75 °C.



### Standard Colours

**Cores:** Brown, Blue,  
White, Orange,  
Green/Yellow(Earth)

**Sheath:** Grey

Nominal conductor area mm <sup>2</sup>	Average insulation thickness mm	Approximate overall diameter mm	Approximate mass kg/100m	Product Code
<b>5 CORE</b>				
1.0	0.6	8.6	12.0	Old - FXOD001C05G-1 New – FMC53202
1.5	0.7	10.3	17.0	Old - FXOD105C05G-1 New – FMC530025
2.5	0.8	12.3	26.0	Old - FXOD205C05G-1 New – FMC550025

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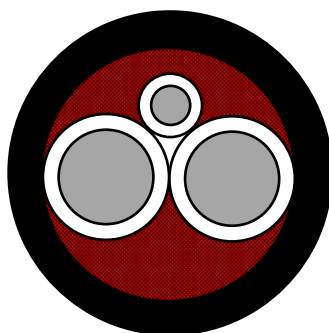
# PVC FLEXIBLE CORDS



AUSTRALIA PACIFIC ELECTRIC CABLES

## Heavy Duty

PVC Insulated, PVC Sheathed,  
3 Core  
0.6/1KV to AS 3191



**Conductor:** annealed copper.  
**Insulation and sheath:** PVC compounds for continuous conductor temperature of 75°C.

### Standard Colours

**Cores:** Brown, Blue  
Green/Yellow (Earth).

**Sheath:** Grey, Orange.

Nominal conductor area mm <sup>2</sup>	Average insulation thickness mm	Average sheath thickness mm	Approximate overall diameter mm	Approximate mass kg/100m	Product Code
<b>3 CORE</b>					
1.0	0.8	1.4	9.4	11.9	Old - FXHD001C03G-1 New – FMH33202
1.5	0.8	1.4	10.4	14.4	Old - FXHD105C03G-1 New – FMH330025
2.5	0.9	1.8	11.95	21.5	Old - FXHD205C03G-1 New – FMH350025

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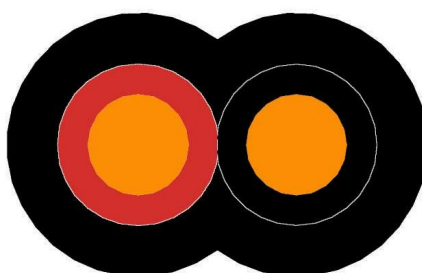
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# ***XLPE / UV PVC TRAFFIC CABLE***



AUSTRALIA PACIFIC ELECTRIC CABLES

**XLPE Insulated, UV/PVC Sheathed,  
Two core Flat, no earth,  
0.6/1KV AS/NZS 5000.1  
(Main Roads specifications MRS 11.95)**



**Conductor:** Copper.  
**Insulation:** XLPE  
**Sheath:** PVC 5V90+Carbon  
compounds for continuous  
conductor temperature of 90 °c

## **Standard Colours**

**Cores:** Red/Black

**Sheath:** Black

Conductor area mm <sup>2</sup>	Number of cores	Average sheath thickness mm	Nominal overall diameter mm	Approximate mass kg/100m	Product Code
<b>16mm</b>	2	0.7	10.4 x 16.9	43.925	<b>XFU016T</b>
<b>25mm</b>	2	1.8	12.2 x 20.6	65.917	<b>XFU025T</b>

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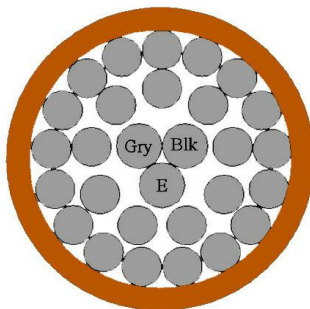
# PVC TRAFFIC CONTROL CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

PVC Insulated, PVC Sheathed,  
Power Control Cable  
For Traffic Signal Installation  
0.6/1KV AS/NZS 2276.1

**Conductor:** Copper  
**Insulation and sheath:** PVC  
compounds for continuous  
conductor temperature of 90 °C



## Standard Colours

**Cores:** Black, Grey (phase)  
Green/Yellow (Earth)  
White - numbered (Control)

**Sheath:** Orange

Conductor area cores and earth		Number of cores	Average sheath thickness	Nominal overall diameter	Approx. Mass kg/100m	Product Code
mm²						
Phase	2.5 (7/0.67)	2	0.8	20.13	63.022	VCM205T19
Earth	2.5 (7/0.67)	1	0.7			
Control	1.5 (7/0.50)	16	0.8			
Phase	2.5 (7/0.67)	2	0.8	24.56	90.683	VCM205T29
Earth	2.5 (7/0.67)	1	0.7			
Control	1.5 (7/0.50)	26	0.8			
Phase	4.0 (7/0.85)	2	1.0	31.77	154.14	VCM004T51
Earth	4.0 (7/0.85)	1	1.0			
Control	1.5 (7/0.50)	48	0.8			

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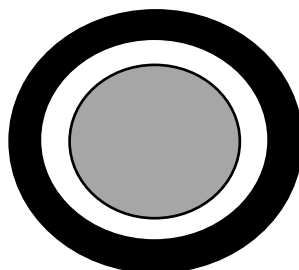
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# ALUMINIUM XLPE POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

XLPE Insulated, PVC Sheathed,  
Single core,  
0.6 / 1 kV to AS/NZS 5000.1



**Conductor:** Aluminium  
**Insulation:** XLPE  
**Sheath:** PVC  
compounds for continuous  
conductor temperature of 90°C.

## Standard Colours

**Core:** Natural  
**Sheath:** Black

Nominal conductor area mm <sup>2</sup>	Average insulation thickness mm	Approximate overall diameter mm	Approximate Mass Kg/100m	Product Code
16	0.7	10	10	XV016A01
25	0.9	11	15	XV025A01
35	0.9	12	19	XV035A01
50	1.0	14	25	XV050A01
70	1.1	16	33	XV070A01
95	1.1	18	42	XV095A01
120	1.2	20	51	XV120A01
150	1.4	22	63	XV150A01
185	1.6	24	77	XV185A01
240	1.7	27	97	XV240A01
300	1.8	30	120	XV300A01
400	2	33.5	155	XV400A01
500	2.2	37.5	190	XV500A01
630	2.4	42	238	XV630A01

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# ALUMINIUM XLPE AERIAL BUNDLE



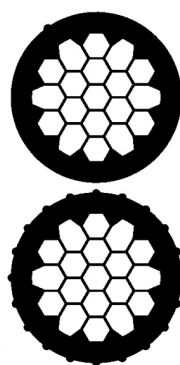
AUSTRALIA PACIFIC ELECTRIC CABLES

0.6 / 1 kV to AS/NZS 3560.1:2000

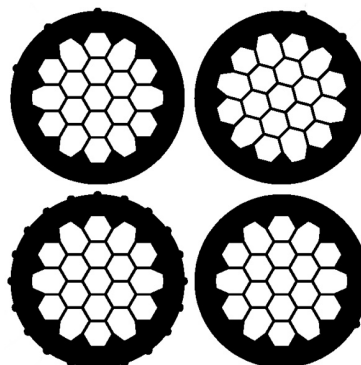
**Conductor:** Aluminium

**Insulation:** XLPE X-90  
Conductor temperature 90 °C.

Two-core cable



Four-core cable



**Sheath:** Black

Nominal conductor area mm <sup>2</sup>	Nominal conductor diameter mm	Average insulation thickness mm	Diameter Over laid-up cores mm	Approx. mass kg/100m	Product Code
<b>2 Core</b>					
25.0	5.90	1.9	18.0	20.0	ABC025A02
<b>4 Core</b>					
25.0	5.90	1.9	22.0	41.0	ABC025A04
35.0	6.95	1.9	25.0	54.0	ABC035A04
50.0	8.33	2.1	29.0	76.0	ABC050A04

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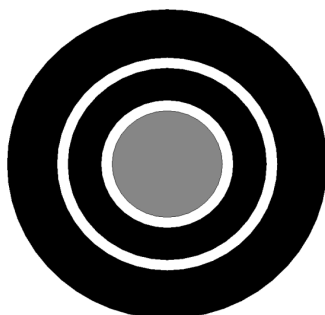
# FIRE RATED FR POWER CABLES

0.6 / 1 kV to AS/NZS 5000.1  
Plus AS/NZS 3013



AUSTRALIA PACIFIC ELECTRIC CABLES

**Conductor:** annealed copper  
**Insulation:** EVA X-HF110  
**Sheath:** HFS-110-TP  
compounds for continuous  
conductor temperature of  
Flame barrier tape layer 110°C.  
Halogen Free



## Standard Colours

**Core:** Natural

**Sheath:** Orange

Nominal conductor area	AS 3013 Rating	Average insulation thickness	Approximate overall diameter	Approximate mass	Product Code
mm <sup>2</sup>		mm	mm	kg/100m	
16.0	WS51W	0.7	11.0	25.0	FR016
25.0	WS51W	0.9	12.0	35.5	FR025
35.0	WS51W	0.9	13.0	46.0	FR035
50.0	WS51W	1.0	14.5	59.5	FR050
70.0	WS52W	1.1	17.0	83.0	FR070
95.0	WS52W	1.1	19.0	110.5	FR095
120.0	WS52W	1.2	20.5	136.0	FR120
150.0	WS52W	1.4	23.0	167.5	FR150
185.0	WS52W	1.6	25.0	206.0	FR185
240.0	WS52W	1.7	28.0	260.0	FR240
300.0	WS52W	1.8	30.5	328.5	FR300
400.0	WS52W	2.0	33.5	415.0	FR400
500.0	WS52W	2.2	38.0	527.0	FR500

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# ***FIRE RATED FR POWER CABLES***

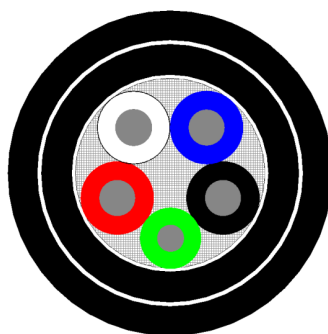


AUSTRALIA PACIFIC ELECTRIC CABLES

0.6 / 1 kV to AS/NZS 5000.1  
Plus AS/NZS 3013

Four Core Circular  
Plus Insulated Earth  
With Mica Tape

**Conductor:** annealed copper  
**Insulation:** XLPE  
**Sheath:** HFS-90-TP  
compounds for continuous  
conductor temperature of  
Flame barrier tape layer 90 °C.  
Halogen Free



## **Standard Colours**

**Cores:** Red, White, Blue,  
Black, Green/Yellow

**Sheath:** Black

<b>Nominal conductor area</b>	<b>Average insulation thickness</b>	<b>Approximate overall diameter</b>	<b>Approximate mass</b>	<b>Product Code</b>
<b>mm<sup>2</sup></b>	<b>mm</b>	<b>mm</b>	<b>kg/100m</b>	
6.0	0.7	18.5	60.5	FR006E04
10.0	0.7	21.0	84.5	FR010E04
16.0	0.7	23.5	116.0	FR016E04
25.0	0.9	26.5	160.0	FR025E04
35.0	0.9	29.0	209.0	FR035E04

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# GENERAL INFORMATION



AUSTRALIA PACIFIC ELECTRIC CABLES

## MINIMUM COPPER EARTHING CONDUCTOR SIZE

Nominal Size of ACTIVE Conductor mm <sup>2</sup>	With COPPER Active Conductor	With ALUMINIUM Active Conductor
1	1.5*	-
1.5	1.5*	-
2.5	2.5	-
4	2.5	-
6	2.5	2.5
10	4	2.5
16	6	4
25	6	6
35	10	6
50	16	10
70	25	10
95	25	16
120	35	25
150	50	25
185	70	35
240	95	50
300	120	70
400	120	95
500	120	95
630	120	120

**\*1.5mm<sup>2</sup> earthing conductors may be used only where incorporated in a multicore cable or flexible cored, other than a lift travelling cable, in accordance with Clause 5.5.3.2(e) of AS 3000, Wiring Rules, Items (ii) and (iii).**

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# ELECTRICAL DATA



AUSTRALIA PACIFIC ELECTRIC CABLES

**MAXIMUM D.C. RESISTANCE VALUES**  
**TABLE 1**

Nominal Conductor area  mm <sup>2</sup>	Max. D.C. Resistance at 20°C.Ω/km Single core or multi core	
	Plain Annealed Copper	Aluminium
0.5*	36.0	-
1.0*	18.1	-
1.5*	12.1	-
2.5*	7.28	-
1.0	21.2	-
1.5	13.6	-
2.5	7.41	-
4	4.61	-
6	3.08	-
10	1.83	-
16	1.15	1.91
25	0.727	1.20
35	0.524	0.868
50	0.387	0.641
70	0.268	0.443
95	0.193	0.320
120	0.153	0.253
150	0.124	0.206
185	0.0991	0.164
240	0.0754	0.125
300	0.0601	0.100
400	0.0470	0.0778
500	0.0366	0.0605
630	0.0283	0.0469

\*Solid conductor

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