



AUSTRALIA PACIFIC ELECTRIC CABLES

DISCLAIMER

APEC (Australia Pacific Electric Cables) Pty. Ltd is a 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 Melbourne and Perth, 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 recognise 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 takes 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 to products without notice.

YOUR FIRST CHOICE FOR QUALITY CABLE & EXCELLENT SERVICE

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bn-sales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au



INDEX – POWER CABLES

	<u>Page</u>		<u>Page</u>
PVC INSULATED		ALUMINIUM XLPE	
1 Core 1.5mm to 240mm	1	Single Core	30
1 Core Flexible Tinned Copper	2	Single Core Flexible 110 deg	31
1 Core Flexible 25mm to 120mm	3		
<u>PVC INSULATED/PVC SHEATHED</u>		<u>Aluminium Aerial Bundle</u>	
1 Core 1mm to 35mm	4	2 Core & 4 Core	32
2 Core Flat	5		
2 Core + Insulated Earth Flat	6	<u>ALUMINIUM SECTOR</u>	
3 Core + Insulated Earth Flat	7	4 Core	33
2 Core + Insulated Earth Circular	8		
3 Core + Insulated Earth Circular	9	<u>HO7RN SUBMERSIBLE</u>	
4 Core + Insulated Earth Circular	10	3 Core + Insulated Earth	34
Multicore + Insulated Earth Control	11		
<u>XLPE INSULATED / PVC SHEATHED</u>		<u>FIRE RATED CABLE</u>	
1 Core 16mm to 630mm	12	Single Core	35
1 Core Flexible 16mm to 630mm	13	Multi Core	36
2 Core + Insulated Earth Circular	14		
3 Core + Insulated Earth Circular	15	<u>INSTRUMENTATION CABLE</u>	
4 Core + Insulated Earth Circular	16	0.5mm PVC & SWA	37
4 Core Service Cable	17	0.75mm PVC	38
		1.5mm PVC & SWA	39
<u>TRAFFIC CABLE</u>		0.5mm & 1.5mm Triad	40
2 Core Flat	18		
2 & 4 Core no earth Main Roads	19	<u>GENERAL INFORMATION</u>	
<u>PVC/ SWA / PVC</u>		Minimum Copper Earthing	41
Multicore + Insulated Earth Control	20		
<u>XLPE / SWA / PVC</u>		<u>ELECTRICAL DATA</u>	
2 Core + Insulated Earth XLPE/ SWA	21	Resistance Values	42-44
3 Core + Insulated Earth XLPE/ SWA	22	Bending Radius	45
4 Core + Insulated Earth XLPE/ SWA	23		
<u>FLEXIBLE MULTICORE</u>		<u>TECHNICAL DATA</u>	
2 Core Fig.8 Ordinary Duty	24	Current Ratings +	
2 Core Ordinary Duty	25	Voltage drop – Tables 2 – 9	
3 Core Ordinary Duty	26		
4 Core Ordinary Duty	27		
5 Core Ordinary Duty	28		
3 Core Heavy Duty	29		

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnsales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

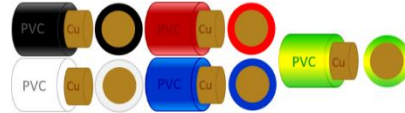
638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

PVC POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

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



Standard Colours

1.5 to 35mm²

Black, Blue, Red, White & Earth (green/yellow)

1.5mm also available in
Pink & Purple

25 - 50mm²

Red, Black & Earth (green/yellow)

***70 - 240mm²**

Available in Earth (green/yellow) only

Conductor: annealed copper.
Insulation: PVC V90
compounds for continuous
conductor temperature of 90°C.

Nominal Conductor area mm ²	Average Insulation thickness mm	Approx. overall diameter mm	Approx. mass kg/100m	Product Code
1.5 - Colour	0.8	3.2	2.3	IVM105
1.5 - Earth	0.6	2.8	2.0	IVM105E
2.5 - Colour	0.8	3.7	3.5	IVM205
2.5 - 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	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
*185.0	2.0	21.8	194.8	IVM185E
*240.0	2.2	24.9	254.8	IVM240E
*70 - 240mm Available in Green/Yellow (earth) only				

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au



AUSTRALIA PACIFIC ELECTRIC CABLES

FLEXIBLE SINGLE CORE TINNED COPPER

Applications: Wiring of Communication, Electronic Equipment
and Switchboards



Conductor: Tinned Copper Wire to AS/NZS 1125
Insulation: RoHS Compliant V90HT (105) PVC to AS/NZS 3808
Sheath Colours: Black, Blue, Brown, Green/Yellow, Grey, Orange, Pink, Red, Violet, White, Yellow

Nominal conductor area mm ²	Average insulation thickness mm	AMP Rating	Electrical Resistance @ 20°C (ohm/km)	Nominal overall diameter mm	Approximate mass kg/100m	Product Code
Single Core						
1.0	0.8	17.0	20.0	3.0	1.7	FVK13202
1.5	0.8	21.0	13.7	3.15	2.2	FVK130025
2.5	0.9	29.0	8.2	3.95	3.5	FVK150025
4.0	1.0	38.0	5.1	4.75	5.3	FVK15603
6.0	1.0	49.0	3.2	5.30	7.5	FVK18403

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnsales@apeccables.com.au

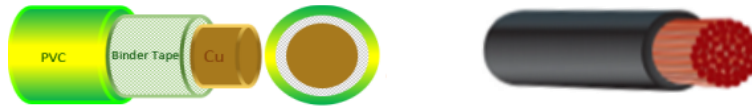
Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

FLEXIBLE BUILDING WIRE AUSTRALIA PACIFIC ELECTRIC CABLES



Conductor: Plain Annealed Copper Class 5 to AS/NZS 1125

Insulation: Weatherability PVC V-90 to AS/NZS 3808

Available sizes: 25mm-120mm

Standard Colour: Green/Yellow
25mm only:
 Black – 100mtr Packs only

Nominal Conductor area mm ²	Average Insulation thickness mm	Approx. overall diameter mm	Approx. mass kg/100m	Product Code
25.0	1.2	9.7	26.5	FX025E
	1.2	8.8	26.5	ZBD179202-BK-100
35.0	1.2	11.5	36.2	FX035E
50.0	1.4	13.5	51.7	FX050E
70.0	1.4	14.9	70.8	FX070E
95.0	1.6	16.9	96.0	FX095E
120.0	1.6	18.8	110.5	FX120E

Brisbane Office and Factory

89 Platinum Street,
 Crestmead, Qld 4132
 P: 07 3802 3651
 E: bn-sales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
 Thomastown, VIC 3074
 P: 03 9465 1188
 E: salesmdc@apeccables.com.au

Perth Sales & Distribution

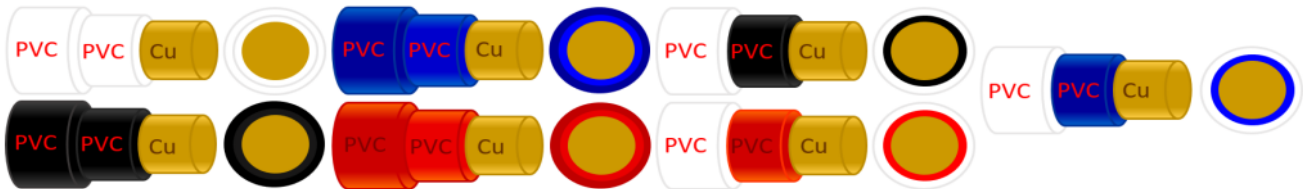
638 Casella Place
 Kewdale, WA 6105
 P: 08 9350 1300
 E: salespdc@apeccables.com.au

PVC POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

PVC Insulated, PVC Sheathed,
Single core, Double Insulated
1.0 to 16mm² 450 / 750 V to AS 5000.2



Conductor: annealed copper.

Insulation: PVC V90

Sheath: PVC 3V90
compounds for continuous
conductor temperature of
90°C.

Standard Colours

Core: Red or Black.

Sheath: White
(1mm avail in White/White)

Nominal Conductor area mm ²	Average Insulation mm	Approx. mm	Approx. overall mm	Approx. mass kg/100m	Product Code
1.0	0.6	0.8	4.1	2.9	VVM113
1.5	0.6	0.8	4.4	3.5	VVM105
2.5	0.7	0.8	5.2	5.2	VVM205
4.0	0.8	0.9	6.1	7.7	VVM004
6.0	0.8	0.9	6.7	10.0	VVM006
10.0	1.0	0.9	8.1	15.6	VVM010
16.0	1.0	1.0	9.3	22.7	VVM016

6.0 to 35mm² 0.6/1kv to AS 5000.1 Insulation & sheath: PVC V90

The below items are available in our Perth Distribution Centre. Various colour options are available.

Nominal Conductor area mm ²	Average Insulation thickness mm	Average sheath thickness mm	Approx. overall diameter mm	Approx. mass kg/100m	Product Code
6.0	1.0	1.4	8.2	12.3	VVM0065K1
10.0	1.0	1.4	9.1	17.2	VVM0105K1
16.0	1.0	1.4	10.1	24.0	VVM0165K1
25.0	1.2	1.4	12.0	35.6	VVM025
35.0	1.2	1.4	13.1	46.5	VVM035

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

PVC POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

Standard Colours

Cores: Red and Black or
Red and White

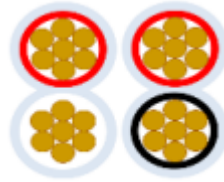
Sheath: White

*Also available in Red Sheath

*Orange sheath – 10mm & 16mm

PVC Insulated, PVC Sheathed,

Two core flat,
450 / 750 V to AS/NZS 5000.2



Conductor: annealed copper.

Insulation: PVC V90

Sheath: PVC 3V90

compounds for continuous
conductor temperature of
90°C.

Nominal Conductor area mm ²	Average Insulation thickness mm	Average Sheath thickness mm	Approx. overall dimensions mm	Approx. mass kg/100m	Product Code
1.0	0.6	0.9	6.7 x 4.3	5.4	VFM113C02RB VFM113C02RW
*1.5	0.6	0.9	7.4 x 4.7	6.7	VFM105C02RB VFM105C02RW *VFM105C02RWR
2.5	0.7	1.0	9.1 x 5.6	10.5	VFM205C02RB VFM205C02RW
4.0	0.8	1.1	10.8 x 6.5	15.5	VFM004C02RB VFM004C02RW
6.0	0.8	1.1	11.9 x 7.1	20.3	VFM006C02RB VFM006C02RW
10.0	1.0	1.2	14.8 x 8.7	32.2	VFM010C02RB *VFM010C02RBO
16.0	1.0	1.3	17.1 x 9.9	46.5	VFM016C02RB *VFM016C02RBO

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

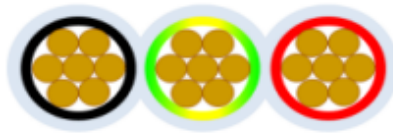
PVC POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

PVC Insulated, PVC Sheathed,
Two core plus insulated earth flat,
1.0 to 16mm² 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
*2.5mm² White or Black

Power Conductor		Earth Conductor		Average Sheath thickness mm	Approx overall dimensions mm	Approx. mass kg/100m	Product Code
Nominal conductor area mm ²	Average insulation thickness mm	Nominal conductor area mm	Average insulation thickness mm				
1.0	0.6	1.5	0.6	0.9	9.4 x 4.3	8.4	VFM113E02W
1.5	0.6	1.5	0.6	0.9	10.2 x 4.7	9.7	VFM105E02W
*2.5	0.7	2.01	0.7	1.0	12.5 x 5.6	15.3	VFM205E02W *VFM205E02B
4.0	0.8	2.01	0.7	1.1	14.3 x 6.5	20.4	VFM004E02W
6.0	0.8	2.01	0.7	1.1	15.4 x 7.1	25.2	VFM006E02W
10.0	1.0	2.55	0.8	1.2	19.1 x 8.7	39.5	VFM010E02W
16.0	1.0	3.12	0.8	1.3	21.9 x 9.9	56.4	VFM016E02W

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnsales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

PVC POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

**PVC Insulated, PVC Sheathed,
Three core plus insulated earth flat,
1.5mm² 450/750V to AS/NZS 5000.2**

Conductor: Plain annealed copper.

Insulation: PVC V90

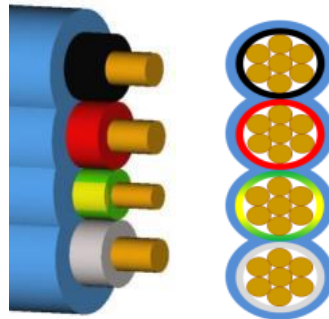
Sheath: PVC 3V90

compounds for continuous conductor temperature of 90°C.

Standard Colours

Cores: Black, Red
Green/Yellow (earth), White

Sheath: Blue
100 mtr Packs only



Power Conductor		Earth Conductor		Average Sheath thickness mm	Approx overall dimensions mm	Approx. mass kg/100m	Product Code
Nominal conductor area mm ²	Average insulation thickness mm	Nominal conductor area mm	Average insulation thickness mm				
1.5	0.6	1.5	0.6	0.9	12.7 x 4.6	12.6	BAC4705

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnsales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

PVC POWER CABLES

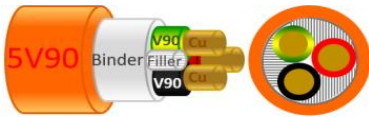


AUSTRALIA PACIFIC ELECTRIC CABLES

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

1.5 to 6mm² 450/750V to AS/NZS 5000.2

1.5 to 16mm² 0.6/1kV to AS/NZS 5000.1



Conductor: annealed copper.

Insulation PVC V90

sheath: PVC 5V90 compounds for continuous conductor temperature of 90°C.

Standard Colours

Cores: Red, Black
Green/Yellow (Earth)

Sheath: Orange.

Power Cores		Earth Core		Average Sheath thickness mm	Approx overall Diameter mm	Approx. mass kg/100m	Product code
Nominal conductor area mm ²	Average insulation thickness mm	Nominal conductor area mm ²	Average insulation thickness mm				
2C+E ORANGE CIRC PVC/PVC 450/750V AS/NZS 5000.2							
1.5	0.6	1.5	0.6	1.2	9.6	11.6	MVM105E02
2.5	0.7	2.5	0.7	1.3	11.3	17.8	MVM205E02
4.0	0.8	2.5	0.7	1.3	12.4	23.1	MVM004E02
6.0	0.8	2.5	0.7	1.3	13	28.6	MVM006E02
2C+E ORANGE CIRC PVC/PVC 0.6/1KV AS/NZS 5000.1							
1.5	0.8	1.5	0.8	1.8	10.8	15.4	MVM105E025K1
2.5	0.8	2.5	0.8	1.8	11.9	19.9	MVM205E025K1
4.0	1.0	2.5	0.8	1.8	13.2	25.3	MVM004E02541
6.0	1.0	2.5	0.8	1.8	14.1	30.3	MVM006E025K1
10.0	1.0	4.0	1.0	1.8	14.6	40.0	MVM010E02

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

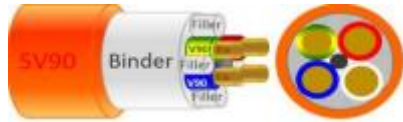
PVC POWER CABLES



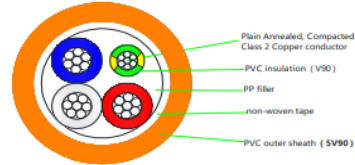
AUSTRALIA PACIFIC ELECTRIC CABLES

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

1.5 to 6mm² 450/750V to AS/NZS 5000.2



1.5 to 10mm² 0.6/1kV to AS/NZS 5000.1



Conductor: annealed copper.

Insulation: PVC V90

Sheath: PVC 5V90 compounds for continuous conductor temperature of 90°C.

Standard Colours

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

Sheath: Orange

Power Cores		Earth Core		Average Sheath Thickness	Approx. overall diameter	Approx. mass	Product Code
Nominal conductor area	Average insulation thickness	Nominal conductor area	Average insulation thickness				
mm ²	mm	mm ²	mm	mm	mm	kg/100m	
3C+E ORANGE CIRC PVC/PVC 450/750V AS/NZS 5000.2							
1.5	0.6	1.5	0.6	1.2	10.4	14.3	MVM105E03
2.5	0.7	2.5	0.7	1.3	12.2	22.1	MVM205E03
6	0.8	2.5	0.7	1.4	14.6	34.8	MVM006E03
3C+E ORANGE CIRC PVC/PVC 0.6/1KV AS/NZS 5000.1							
1.5	0.8	1.5	0.6	1.8	11.6	18.5	MVM105E035K1
2.5	0.8	2.5	0.7	1.8	12.8	24.0	MVM205E035K1
4.0	1.0	2.5	0.7	1.8	14.5	32.0	MVM004E035K1
6.0	1.0	2.5	0.7	1.8	15.6	39.2	MVM006E035K1
10.0	1.0	4.0	1.0	1.8	17.4	55.0	MVM010E03

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

PVC POWER CABLES



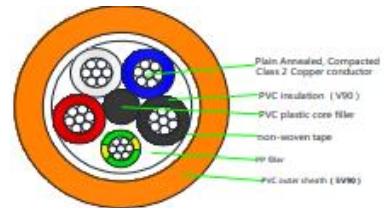
AUSTRALIA PACIFIC ELECTRIC CABLES

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

1.5 to 6mm² 450/750V to AS/NZS 5000.2



1.5 to 16mm² 0.6/1kV to AS/NZS 5000.1



Conductor: annealed copper.
Insulation PVC V90
sheath: PVC 5V90
compounds for continuous
conductor temperature of 90°C

Standard Colours

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

Power Conductor		Earth Conductor		Average Sheath mm	Approx. overall mm	Approx. mass kg/100m	Product Code
Nominal conductor mm ²	Average insulation mm	Nominal conductor mm ²	Average insulation mm				
4C+E ORANGE CIRC PVC/PVC 450/750V AS/NZS 5000.2							
1.5	0.6	1.5	0.6	1.3	11.4	17.2	MVM105E04
2.5	0.7	2.5	0.7	1.3	13.2	26.9	MVM205E04
4.0	0.8	2.5	0.7	1.4	15.1	32.9	MVM004E04
6.0	0.8	2.5	0.7	1.4	15.9	43.6	MVM006E04
4C+E ORANGE CIRC PVC/PVC 0.6/1KV AS/NZS 5000.1							
1.5	0.8	1.5	0.8	1.8	12.5	21.7	MVM105E045K1
2.5	0.8	2.5	0.8	1.8	13.8	28.2	MVM205E045K1
4.0	1.0	2.5	0.8	1.8	15.9	37.9	MVM004E045K1
6.0	1.0	2.5	0.8	1.8	17.1	48.9	MVM006E045K1
10.0	1.0	4.0	1.0	1.8	19.1	69.0	MVM010E04
16.0	1.0	6.0	1.0	1.8	21.5	97.0	MVM016E04

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

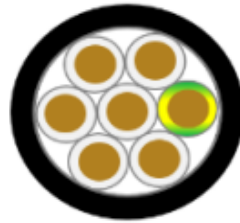
638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

PVC CONTROL CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

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



Conductor: annealed copper.

Standard Colours

Insulation: PVC V-90 to AS/NZS 3808
Sheath: PVC 5V-90 to AS/NZS 3808
compounds for continuous conductor temperature of 90°C.

Cores: White numbered and
Green/Yellow (Earth)

Sheath: Black

Nominal conductor area mm ²	Number of Cores excluding earth	Control Conductor		Earth Conductor		Average Sheath thickness mm	Approx. Nominal overall diameter mm	Approx. mass kg/100m	Product Code
		Nominal conductor area mm	Average insulation thickness mm	Nominal conductor area mm	Average insulation thickness mm				
1.5 (7/0.50)	2	1.5	0.8	1.5	0.8	1.8	11.1	15.2	VCM105E02B5K1
1.5 (7/0.50)	4	1.5	0.8	1.5	0.8	1.8	12.8	20.9	VCM105E04B5K1
1.5 (7/0.50)	5	1.5	0.8	1.5	0.8	1.8	13.8	24.9	VCM105E05B5K1
1.5 (7/0.50)	6	1.5	0.8	1.5	0.8	1.8	13.8	27	VCM105E06B5K1
1.5 (7/0.50)	8	1.5	0.8	1.5	0.8	1.8	16	33.7	VCM105E08B5K1
1.5 (7/0.50)	10	1.5	0.8	1.5	0.8	1.8	17.4	39.5	VCM105E10B5K1
1.5 (7/0.50)	12	1.5	0.8	1.5	0.8	1.8	18.2	44.5	VCM105E12B5K1
1.5 (7/0.50)	15	1.5	0.8	1.5	0.8	1.8	19.1	52.8	VCM105E15B5K1
1.5 (7/0.50)	20	1.5	0.8	1.5	0.8	1.8	21	65	VCM105E20B5K1
1.5 (7/0.50)	25	1.5	0.8	1.5	0.8	1.8	23.7	78.2	VCM105E25B5K1
1.5 (7/0.50)	30	1.5	0.8	1.5	0.8	1.8	25.4	90.7	VCM105E30B5K1
2.5 (7/0.67)	2	2.01	0.8	2.01	0.8	1.8	12.2	20.4	VCM205E02B5K1
2.5 (7/0.67)	4	2.01	0.8	2.01	0.8	1.8	14.2	28.8	VCM205E04B5K1
2.5 (7/0.67)	6	2.01	0.8	2.01	0.8	1.8	15.3	37.2	VCM205E06B5K1
2.5 (7/0.67)	8	2.01	0.8	2.01	0.8	1.8	17.9	46.7	VCM205E08B5K1
2.5 (7/0.67)	10	2.01	0.8	2.01	0.8	1.8	19.5	55.2	VCM205E10B5K1
2.5 (7/0.67)	12	2.01	0.8	2.01	0.8	1.8	20.5	62.8	VCM205E12B5K1
2.5 (7/0.67)	15	2.01	0.8	2.01	0.8	1.8	21.5	75.2	VCM205E15B5K1
2.5 (7/0.67)	20	2.01	0.8	2.01	0.8	1.8	23.7	95.8	VCM205E20B5K1
2.5 (7/0.67)	25	2.01	0.8	2.01	0.8	1.8	26.8	113.3	VCM205E25B5K1
2.5 (7/0.67)	30	2.01	0.8	2.01	0.8	1.8	28.8	132.9	VCM205E30B5K1

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

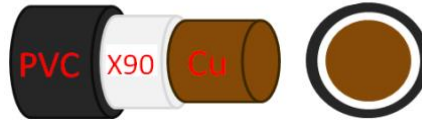
638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

XLPE POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

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



Conductor: annealed copper
Insulation: XLPE X90
Sheath: PVC 5V90
Compounds for continuous
conductor temperature of 90°C.

Standard Colours
Core: Natural
Sheath: Black

Nominal conductor area	Average Insulation thickness	Average Sheath thickness	Approx. overall diameter	Approx. mass	Product Code
mm ²	mm	mm	mm	kg/100m	
16	0.7	1.4	9.5	21.6	XV016C01
25	0.9	1.4	11.3	32.4	XV025C01
35	0.9	1.4	12.5	42.5	XV035C01
50	1	1.4	13.9	55.7	XV050C01
70	1.1	1.5	16	78.1	XV070C01
95	1.1	1.5	18.1	105.4	XV095C01
120	1.2	1.6	20.1	131.7	XV120C01
150	1.4	1.6	22.2	161.2	XV150C01
185	1.6	1.7	24.6	201.1	XV185C01
240	1.7	1.8	27.6	260.9	XV240C01
300	1.8	1.9	30.5	324.2	XV300C01
400	2.0	2.0	34.1	412.1	XV400C01
500	2.2	2.2	38	516.6	XV500C01
630	2.4	2.3	42.9	672.3	XV630C01

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

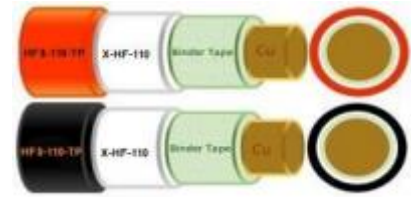
638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

FLEXIBLE XLPE 110 DEGREES



AUSTRALIA PACIFIC ELECTRIC CABLES

Cu Class 5 / X-HF-110 /
HFS-110-TP 0.6/1KV to AS/NZS 5000.1



Standard Colours

Insulation: White
Sheath: Orange

Conductor: Plain Annealed Copper Class 5.
Insulation: X-HF-110 to AS/NZS 3808
Sheath: HFS-110-TP to AS/NZS 3808

Nominal conductor area mm ²	Average Insulation thickness mm	Average Sheath thickness mm	Approx. overall diameter mm	Approx. mass kg/100m	Product Code
16	0.7	1.4	10.2	22.9	FXV016WOHFS110
25	0.9	1.4	11.9	34.8	FXV025WOHFS110
35	0.9	1.4	13.7	46.1	FXV035WOHFS110
50	1.0	1.4	15.5	60.0	FXV050WOHFS110
70	1.1	1.4	17.2	81.6	FXV070WOHFS110
95	1.1	1.5	18.9	106.8	FXV095WOHFS110
120	1.2	1.5	21.0	133.2	FXV120WOHFS110
150	1.4	1.6	23.2	165.7	FXV150WOHFS110
185	1.6	1.6	25.5	201.5	FXV185WOHFS110
240	1.7	1.7	28.9	256.7	FXV240WOHFS110
300	1.8	1.8	31.6	316.5	FXV300WOHFS110
400	2.0	1.9	36.0	411.6	FXV400WOHFS110
500	2.2	2.0	39.9	525.1	FXV500WOHFS110
630	2.4	2.2	45.5	651.4	FXV630WOHFS110

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

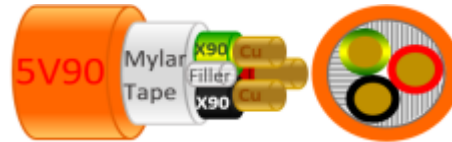
638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

XLPE POWER MULTI CORE CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

XLPE Insulated, PVC Sheathed,
Two core circular plus insulated earth,
16mm to 95mm² 0.6 / 1 kV to AS/NZS 5000.1



Conductor: Plain annealed copper

Insulation: XLPE X90

Sheath: PVC 5V90

Compounds for continuous
conductor temperature of 90°C.

Standard Colours

Cores: Red, Black,
Green (Earth).

Sheath: Orange.

Power Conductor		Earth Conductor					
Nominal conductor area	Average insulation thickness	Nominal conductor area	Average insulation thickness	Average Sheath thickness	Approx. overall diameter	Approx. mass	Product Code
mm ²	mm	mm ²	mm	mm	mm	kg/100m	
16.0	0.7	6	0.7	1.8	16.7	54.2	MX016E02
25.0	0.9	6	0.7	1.8	19.9	78.9	MX025E02
35.0	0.9	10	0.7	1.8	22.1	104.1	MX035E02
50.0	1.0	16	0.7	1.8	25.3	142.5	MX050E02
70.0	1.1	25	0.9	1.9	29.2	201.6	MX070E02
95.0	1.1	25	0.9	2.0	32.9	258.2	MX095E02

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bn-sales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

XLPE POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

XLPE Insulated, PVC Sheathed,
Three core circular plus insulated earth,
16mm to 300mm² 0.6 / 1 kV to AS/NZS 5000.1



Conductor: annealed copper.
Insulation: XLPE X90
Sheath: PVC 5V90
Compounds for continuous
conductor temperature of 90°C.

Standard Colours

Cores: Red, White, Blue,
Green (Earth).
Sheath: Orange.

Power Conductor		Earth Conductor		Average Sheath thickness mm	Approx. overall diameter mm	Approx. mass kg/100m	Product Code
Nominal conductor area mm ²	Average insulation thickness mm	Nominal conductor area mm ²	Average insulation thickness mm				
16	0.7	6	0.7	1.8	18.6	69.6	MX016E03
25.0	0.9	6	0.7	1.8	22.1	105.4	MX025E03
35.0	0.9	10	0.7	1.8	24.5	140.7	MX035E03
50.0	1	16	0.7	1.8	28.0	190	MX050E03
70.0	1.1	25	0.9	1.9	32.6	272.8	MX070E03
95.0	1.1	25	0.9	2.0	36.2	353.7	MX095E03
120.0	1.2	35	0.9	2.1	40.5	452.1	MX120E03
150.0	1.4	50	1	2.3	45.4	534	MX150E03
185.0	1.6	70	1.1	2.5	50.6	668.9	MX185E03
240.0	1.7	95	1.1	2.6	56.7	873.5	MX240E03
300.0	1.8	120	1.2	2.8	62.3	108.32	MX300E03

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

XLPE POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

XLPE Insulated, PVC Sheathed,
Four core circular
plus insulated earth,
16 to 300mm² 0.6 / 1 kV to AS/NZS 5000.1



Conductor: annealed copper.
Insulation: XLPE X90
Sheath: PVC 5V90
Compounds for continuous
conductor temperature of 90°C.

Standard Colours

Cores: Red, White, Blue, Black,
Green (Earth)

Sheath: Orange.

Power Conductor		Earth Conductor		Average Sheath thickness	Approx. overall diameter	Approx. mass	Product Code
Nominal conductor area	Average insulation thickness	Nominal conductor area	Average insulation thickness				
mm ²	mm	mm ²	mm	mm	mm	kg/100m	
16.0	0.7	6	0.7	1.8	20.6	90.9	MX016E04
25.0	0.9	6	0.7	1.8	24.5	132.9	MX025E04
35.0	0.9	10	0.7	1.8	27.2	179.3	MX035E04
50.0	1.0	16	0.7	1.9	31.5	239.7	MX050E04
70.0	1.1	25	0.9	2.0	36.6	343.8	MX070E04
95.0	1.1	25	0.9	2.2	40.9	456.9	MX095E04
120.0	1.2	35	0.9	2.3	45.8	575.2	MX120E04
150.0	1.4	50	1.0	2.5	50.9	689.5	MX150E04
185.0	1.6	70	1.1	2.7	57	860.9	MX185E04
240.0	1.7	95	1.1	2.9	64	1127.3	MX240E04
300.0	1.8	120	1.2	3.1	70.3	1397.5	MX300E04

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bn-sales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

XLPE SERVICE CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

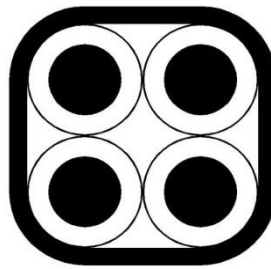
XLPE Insulated, PVC Sheathed,
Four core Service Cable

16mm² to 35mm² 0.6 / 1 kV to AS/NZS 4026

Conductor : annealed copper.

Insulation: XLPE X90

Sheath : PVC 5V90 UV
Compounds for continuous
temperature of 90°C.



Standard colours

Cores :

Red, White, Blue, Black conductor

Sheath: Black

Power Conductor Nominal conductor area	Average insulation thickness	Thickness of sheath	Approximate overall	Approximate mass	Product Code
mm ²	mm	mm	mm	kg/100m	
16.0	1.5	1.3	22.94	85.7	MX016S04
25.0	1.7	1.3	27.34	128.5	MX025S04
35.0	1.7	1.3	30.12	169.0	MX035S04

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bn-sales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

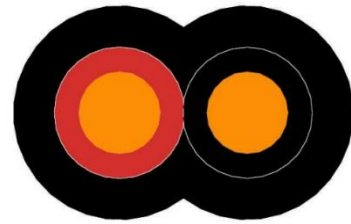
638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

PVC TRAFFIC CABLE



AUSTRALIA PACIFIC ELECTRIC CABLES

**V90 PVC Insulated and Sheathed,
Two core Flat, no earth
450/750V AS/NZS 5000.2**
(Main Roads specifications MRTS256 power cables)



Conductor: Copper.

Insulation: PVC V90

Sheath: PVC V90

Compounds for continuous
conductor temperature of 90°C

Standard Colours

Cores: Red/Black

Sheath: Black

Conductor area mm ²	Number of Cores	Average Sheath thickness mm	Nominal overall diameter mm	Approx. mass kg/100m	Product Code
2.5	2	1	5.6 x 9.1	10.1	VFM205TBV90
4.0	2	1.1	6.5 x 10.8	14.8	VFM004TBV90

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

Conductor: Copper.

Insulation: XLPE X90

Sheath: PVC 5V90 UV

Compounds for continuous
conductor temperature of 90°C

Standard Colours

Cores: Red/Black

Sheath: Black

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

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

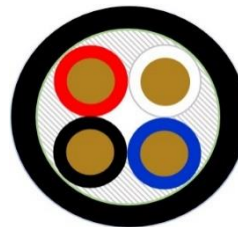
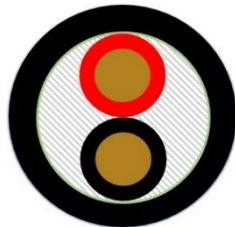
XLPE TRAFFIC CABLE



AUSTRALIA PACIFIC ELECTRIC CABLES

XLPE Insulated, PVC Sheathed,
Traffic Cable

16mm² & 25mm² 0.6 / 1 kV to AS/NZS 5000.1



Conductor : Plain annealed copper.

Insulation: XLPE X90

Sheath : PVC V90 UV

Compounds for continuous
conductor temperature of 90°C.

Standard colours

Cores :

2 Core: Red, Black

4 Core: Red, White, Blue, Black

Sheath: Black

Conductor area mm ²	Number of Cores	Average Sheath thickness mm	Nominal overall diameter mm	Approx. mass kg/100m	Product Code
			Tolerance of approx. ± 5% will apply	Tolerance of approx. ± 5% will apply	
16	2	1.8	17.1	45.7	MX016C02B
16	4	1.8	19.8	80.4	MX016C04B
25	2	1.8	20.5	62.0	MX0257C02B
25	4	1.8	24.0	115.1	MX0257C04B

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bn-sales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

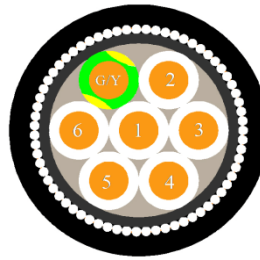
638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

SWA CONTROL CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

PVC Insulated, Steel Wire Armoured, PVC Sheathed
Multicore plus insulated earth,
0.6/1kv to AS/NZS 5000.1



Conductor: Annealed bare copper

Insulation: PVC V90

Sheath: PVC 5V90

Armoured: Galvanised steel wire armoured
Features: Flame retardant and UV Stabilised

Standard Colours

Cores: White with Black numbers
Green/Yellow (Earth)

Inner Sheath: Black

Outer Sheath: Black

Nominal Conductor area cores & earth mm ²	Number of Cores excluding earth	Nominal OD of Insulation mm	Nominal OD of Inner Sheath mm	Nominal Overall Diameter of SWA mm	Thickness of Outer Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/100m	Product Code
1.5 (7/0.50)	2 + E	3.1	8.8	10.6	1.8	14.2	39.7	VCS105E02B5K1
1.5 (7/0.50)	4 + E	3.1	10.5	13.0	1.8	16.6	59.2	VCS105E04B5K1
1.5 (7/0.50)	6 + E	3.1	11.4	13.9	1.8	17.5	67.5	VCS105E06B5K1
1.5 (7/0.50)	8 + E	3.1	14.5	17.0	1.8	20.6	84.0	VCS105E08B5K1
1.5 (7/0.50)	10 + E	3.1	15.0	17.5	1.8	21.1	90.2	VCS105E10B5K1
1.5 (7/0.50)	12 + E	3.1	15.8	19.0	1.8	22.6	112.0	VCS105E12B5K1
1.5 (7/0.50)	15 + E	3.1	16.7	19.9	1.8	23.5	122.6	VCS105E15B5K1
1.5 (7/0.50)	16 + E	3.1	17.3	20.5	1.8	24.1	127.7	VCS105E16B5K1
1.5 (7/0.50)	20 + E	3.1	18.5	21.7	1.8	25.3	142.0	VCS105E20B5K1
1.5 (7/0.50)	25 + E	3.1	21.2	24.4	1.9	28.2	166.3	VCS105E25B5K1
1.5 (7/0.50)	30 + E	3.1	22.9	26.1	1.9	29.9	185.0	VCS105E30B5K1
2.5 (7/0.67)	2 + E	3.6	10	12.5	1.8	16.1	56.8	VCS205E02B5K1
2.5 (7/0.67)	4 + E	3.6	11.9	14.4	1.8	18.1	71.0	VCS205E04B5K1
2.5 (7/0.67)	6 + E	3.6	13	15.5	1.8	19.1	81.5	VCS205E06B5K1
2.5 (7/0.67)	8 + E	3.6	15.6	18.8	1.8	22.4	112.7	VCS205E08B5K1
2.5 (7/0.67)	10 + E	3.6	17.2	20.4	1.8	24	127.1	VCS205E10B5K1
2.5 (7/0.67)	12 + E	3.6	18.1	21.3	1.8	24.9	137.6	VCS205E12B5K1
2.5 (7/0.67)	15 + E	3.6	19.2	22.4	1.8	26	152.8	VCS205E15B5K1
2.5 (7/0.67)	20 + E	3.6	21.3	24.5	1.8	28.1	179.5	VCS205E20B5K1
2.5 (7/0.67)	25 + E	3.6	24.4	27.6	2	31.6	213.4	VCS205E25B5K1
2.5 (7/0.67)	30 + E	3.6	26.4	30.4	2	34.4	265.1	VCS205E30B5K1

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

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 X90

Sheath : PVC 5V90

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 over sheath	Approx. overall diameter	Approx. mass kg/100m	Product Code
Nominal Conductor Area mm ²	Average Insulation thickness mm	Nominal conductor area mm ²	Average Insulation thickness mm						
1.5	0.7	1.5	0.7	1.0	0.8	1.8	16.2	36.0	MXS105E02
2.5	0.7	2.5	0.7	1.0	0.8	1.8	17.4	43.0	MXS205E02
4.0	0.7	2.5	0.7	1.0	0.8	1.8	19.1	49.0	MXS004E02
6.0	0.7	2.5	0.7	1.0	0.8	1.8	20.1	67.0	MXS006E02
10.0	0.7	4.0	0.7	1.0	1.25	1.8	21.6	81.0	MXS010E02
16.0	0.7	6.0	0.7	1.0	1.25	1.8	24.2	104.0	MXS016E02
25.0	0.9	6.0	0.7	1.0	1.25	1.8	27.4	134.0	MXS025E02
35.0	0.9	10.0	0.7	1.0	1.60	1.8	30.4	180.0	MXS035E02
50.0	1.0	16.0	0.7	1.0	1.60	1.8	33.9	230.0	MXS050E02

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

XLPE PVC SWA POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES



Three Core Plus Earth Insulated,
Circular Cable, and Bedded,
Steel Wire Armoured, PVC Sheathed
1.5 to 300mm² 0.6/1kV to AS/NZS 5000.1

Conductor : annealed copper.

Insulation : XLPE X90

Sheath : PVC 5V90

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 over sheath	Approx. overall diameter	Approx. mass	Product Code
Nominal Conductor Area	Average Insulation thickness	Nominal conductor area	Average Insulation thickness						
mm ²	mm	mm ²	mm						
							*Please note; Tolerance of approx. ± 10% is applicable	*Please note; Tolerance of approx. ± 5% is applicable	
1.5	0.7	1.5	0.7	1.0	0.8	1.8	16.9	40.0	MXS105E03
2.5	0.7	2.5	0.7	1.0	0.8	1.8	18.4	48.9	MXS205E03
4.0	0.7	2.5	0.7	1.0	0.8	1.8	19.4	56.2	MXS004E03
6.0	0.7	2.5	0.7	1.0	1.25	1.8	21.6	79.0	MXS006E03
10.0	0.7	4.0	0.7	1.0	1.25	1.8	23.2	98.0	MXS010E03
16.0	0.7	6.0	0.7	1.0	1.25	1.8	25.6	124.0	MXS016E03
25.0	0.9	6.0	0.7	1.0	1.60	1.8	29.6	177.0	MXS025E03
35.0	0.9	10.0	0.7	1.0	1.60	1.8	32.0	218.0	MXS035E03
50.0	1.0	16.0	0.7	1.0	1.60	1.9	36.1	284.0	MXS050E03
70.0	1.1	25.0	0.9	1.2	2.00	2.2	42.8	405.0	MXS070E03
95.0	1.1	25.0	0.9	1.2	2.00	2.3	46.2	492.0	MXS095E03
120.0	1.2	35.0	0.9	1.4	2.00	2.5	50.9	600.0	MXS120E03
150.0	1.4	50.0	1.0	1.4	2.50	2.7	57.5	777.0	MXS150E03
185.0	1.6	70.0	1.1	1.6	2.50	2.9	63.6	940.0	MXS185E03
240.0	1.7	95.0	1.1	1.6	2.50	3.1	69.9	116.2	MXS240E03
300.0	1.8	120.0	1.2	1.6	2.50	3.2	75.9	139.0	MXS300E03

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

XLPE PVC SWA POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

Four Core Plus Earth Insulated,
Circular Cable, and Bedded,
Steel Wire Armoured, PVC Sheathed
1.5 to 300mm² 0.6/1kV AS/NZS 5000.1



Conductor : annealed copper.
Insulation : XLPE X90
Sheath : PVC 5V90
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 mm	Nominal armour wire dia. mm	Thickness of over sheath mm	Approx. overall diameter *mm	Approx. mass kg/100m	Product Code
Nominal Conductor Area mm ²	Average Insulation thickness mm	Nominal conductor area mm ²	Average Insulation thickness mm						
							*Please note; Tolerance of approx. ± 10% is applicable	*Please note; Tolerance of approx. ± 5% is applicable	
1.5	0.7	1.5	0.7	1.0	0.8	1.8	17.8	44.1	MXS105E04
2.5	0.7	2.5	0.7	1.0	0.8	1.8	19.4	54.8	MXS205E04
4.0	0.7	2.5	0.7	1.0	1.25	1.8	21.7	78.0	MXS004E04
6.0	0.7	2.5	0.7	1.0	1.25	1.8	23.0	90.0	MXS006E04
10.0	0.7	4.0	0.7	1.0	1.25	1.8	25.0	114.0	MXS010E04
16.0	0.7	6.0	0.7	1.0	1.6	1.8	28.4	164.8	MXS016E04
25.0	0.9	6.0	0.7	1.0	1.6	1.9	32.5	215.0	MXS025E04
35.0	0.9	10.0	0.7	1.0	1.6	2.0	35.4	270.0	MXS035E04
50.0	1.0	16.0	0.7	1.2	2.0	2.0	41.14	381.0	MXS050E04
70.0	1.1	25.0	0.9	1.2	2.0	2.4	47.19	501.0	MXS070E04
95.0	1.1	25.0	0.9	1.4	2.0	2.5	51.70	620.0	MXS095E04
120.0	1.2	35.0	0.9	1.4	2.5	2.7	57.75	800.0	MXS120E04
150.0	1.4	50.0	1.0	1.6	2.5	2.9	64.24	980.0	MXS150E04
185.0	1.6	70.0	1.1	1.6	2.5	3.1	70.51	1176.0	MXS185E04
240.0	1.7	95.0	1.1	1.6	2.5	3.2	77.33	1450.0	MXS240E04
300.0	1.8	120.0	1.2	1.8	3.2	3.6	86.79	1859.0	MXS300E04

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

PVC FLEXIBLE CORDS



AUSTRALIA PACIFIC ELECTRIC CABLES

TWIN FIG 8 250/250 VOLTS



Conductor: Plain annealed copper.

Insulation: PVC V90

Sheath: PVC V90

Compounds for continuous
conductor temperature of: 60°C

Standard Colours

- White
- Black
- Grey/Black
- White/Black

Nominal conductor area mm ²	Average insulation thickness mm	Approximate overall diameter mm	Approximate mass kg/100m	Product Code
Fig. 8				
0.75	0.8	2.8 x 6	2.8	FFR22402

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnsales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au



AUSTRALIA PACIFIC ELECTRIC CABLES

PVC FLEXIBLE CORDS

Ordinary Duty

PVC Insulated, PVC Sheathed,
2 Core
250/440 VOLT



Conductor: Plain annealed copper.

Insulation: PVC V90

Sheath: PVC 5V90

Compounds for continuous
conductor temperature of: 60°C

Standard Colours

Cores: Brown, Blue

Sheath

0.75mm Grey, White,
1.0mm Black

Nominal conductor area mm ²	Average insulation thickness mm	Average sheath thickness mm	Approx overall diameter mm	Approx mass kg/100m	Product Code
2 CORE					
0.75	0.6	0.8	6.9	6.5	FRM22402
1.0	0.6	0.8	7.0	7.0	FRM23202-BK-100

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

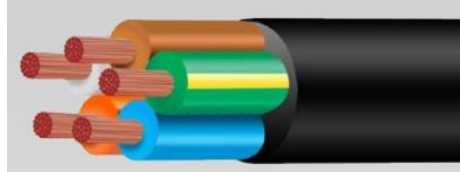


AUSTRALIA PACIFIC ELECTRIC CABLES

PVC FLEXIBLE CORDS

Ordinary Duty

PVC Insulated, PVC Sheathed,
3 Core
250/440 VOLT



Conductor: Plain annealed copper.

Insulation: PVC V90

Sheath: PVC 5V90

Compounds for continuous
conductor temperature of: 60°C

Standard Colours

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

Sheath: Orange, Grey
Black, White

Nominal area mm ²	Average insulation mm	Average sheath thickness mm	Approximate diameter mm	Approximate mass kg/100m	Product Code
3 CORE					
0.75	0.6	0.8	6.9	6.7	FRM32402
1.0	0.6	0.8	7.4	7.7	FRM33202
1.5	0.7	0.9	8.6	10.8	FRM330025
2.5	0.8	1.1	10.1	17.3	FRM350025
4.0	0.8	0.9	12.8	22.8	FRM35603-SY-100

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnsales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

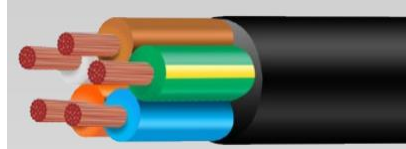


AUSTRALIA PACIFIC ELECTRIC CABLES

PVC FLEXIBLE CORDS

Ordinary Duty

PVC Insulated, PVC Sheathed,
4 Core
250/440 VOLT



Conductor: Plain annealed copper.

Insulation: PVC V90

Sheath: PVC 5V90

Compounds for continuous
conductor temperature of: 60°C

Standard Colours

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

Sheath: Grey

Nominal conductor area mm ²	Average insulation thickness mm	Average sheath thickness mm	Approximate overall diameter mm	Approximate mass kg/100m	Product Code
4 CORE					
1.0	0.6	0.9	7.9	9.8	FRM43202-SY-100
1.5	0.7	1.0	9.2	13.6	FRM430025-SY-100
2.5	0.8	1.1	11.2	20.5	FRM450025-SY-100

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

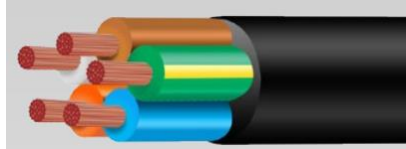


AUSTRALIA PACIFIC ELECTRIC CABLES

PVC FLEXIBLE CORDS

Ordinary Duty

PVC Insulated, PVC Sheathed,
5 Core
250/440 VOLT



Conductor: annealed copper.
Insulation: PVC V90
Sheath: PVC 5V90
Compounds for continuous
conductor temperature of: 60°C

Standard Colours

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

Sheath: Grey

Nominal conductor area mm ²	Average insulation thickness mm	Average sheath thickness mm	Approximate overall diameter mm	Approximate mass kg/100m	Product Code
5 CORE					
2.5	0.8	1.2	12.3	26.0	FRM550025-SY-100

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnsales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

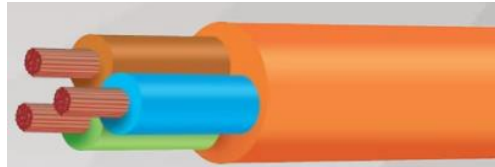
Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

PVC FLEXIBLE CORDS

Heavy Duty

PVC Insulated, PVC Sheathed,
3 Core
0.6/1KV



Conductor: annealed copper.
Insulation: PVC V90
Sheath: PVC 5V90
Compounds for continuous
conductor temperature of: 60°C

Standard Colours
Cores: Brown, Blue
Green/Yellow (Earth).
Sheath: Grey, Orange.

Nominal area mm ²	Average insulation mm	Average sheath mm	Approx diameter mm	Approx mass kg/100m	Product Code
3 CORE					
1.5	0.8	1.6	10.1	14.2	FRH330025-OR-100
2.5	0.9	1.8	12.0	20.5	FRH350025-OR-100
4.0	1.0	1.9	13.7	28.6	FRH35603-OR-100

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnsales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

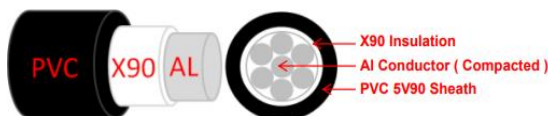
638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

ALUMINIUM XLPE POWER CABLES



AUSTRALIA PACIFIC ELECTRIC CABLES

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



Standard Colours

Core: White
Sheath: Black

Conductor: Aluminium
Insulation: XLPE X90
Sheath: PVC 5V90
compounds for continuous
conductor temperature of 90°C

Nominal conductor area mm ²	Average insulation thickness mm	Average sheath thickness mm	Approximate overall diameter mm	Approximate Mass Kg/100m	Product Code
16	0.7	1.4	10.1	11.0	XV016A01
25	0.9	1.4	11.6	15.0	XV025A01
35	0.9	1.4	12.5	18.5	XV035A01
50	1.0	1.4	14.0	23.9	XV050A01
70	1.1	1.4	16.4	32.0	XV070A01
95	1.1	1.5	18.2	41.2	XV095A01
120	1.2	1.5	19.9	49.7	XV120A01
150	1.4	1.6	22.0	61.5	XV150A01
185	1.6	1.7	24.4	75.6	XV185A01
240	1.7	1.8	26.9	96.4	XV240A01
300	1.8	1.8	29.4	116.6	XV300A01
400	2.0	2.0	33.4	153.2	XV400A01
500	2.2	2.1	37.0	189.1	XV500A01
630	2.4	2.2	41.3	234.8	XV630A01

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bn-sales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

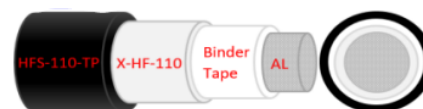
638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

FLEXIBLE ALUMINIUM 110 DEGREES



AUSTRALIA PACIFIC ELECTRIC CABLES

AL Class 5 / X-HF-110 /
HFS-110-TP 0.6/1KV to AS/NZS 1125



Conductor: Aluminium to AS/NZS 1125
Insulation: X-HF-110
Sheath: Weatherability HFS-110-TP to AS/NZS 3808

Standard Colours
Insulation: White
Sheath: Black

Nominal conductor area mm ²	Average insulation thickness mm	Average sheath thickness mm	Approximate overall diameter mm ±10%	Approximate Mass Kg/100m ±10%	Product Code
16	0.7	1.4	10.00	12.7	FXV016A01HFS110
25	0.9	1.4	11.60	17.6	FXV025A01HFS110
35	0.9	1.4	13.40	22.3	FXV035A01HFS110
50	1.0	1.4	14.80	28.5	FXV050A01HFS110
70	1.1	1.5	17.00	37.6	FXV070A01HFS110
95	1.1	1.5	18.90	46.6	FXV095A01HFS110
120	1.2	1.6	21.10	57.8	FXV120A01HFS110
150	1.4	1.7	24.00	72.4	FXV150A01HFS110
185	1.6	1.8	25.90	87.3	FXV185A01HFS110
240	1.7	1.8	29.00	108.3	FXV240A01HFS110
300	1.8	1.9	32.00	131.9	FXV300A01HFS110
400	2.0	2.2	36.70	173.9	FXV400A01HFS110
500	2.2	2.3	40.60	213.2	FXV500A01HFS110
630	2.4	2.4	45.30	263.3	FXV630A01HFS110

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bn-sales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

ALUMINIUM XLPE AERIAL BUNDLE



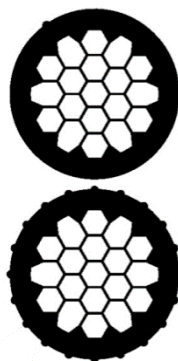
AUSTRALIA PACIFIC ELECTRIC CABLES

0.6 / 1 kV to AS/NZS 3560.1

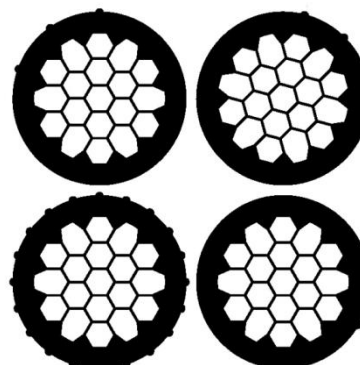
Conductor: Aluminium

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

Two-core cable



Four-core cable



Nominal Conductor area mm ²	Nominal Conductor diameter mm	Average Insulation thickness mm	Maximum overall diameter mm	Approx. Mass kg/100m	Product Code
2 Core					
16	4.8	1.3	15.8	14	ABC016A02
25	6.1	1.3	18.4	20	ABC025A02
95	11.9	1.7	31.8	68	ABC095A02
4 Core					
25	6.1	1.9	22.2	40	ABC025A04
35	7.2	1.9	24.9	52	ABC035A04
50	8.4	2.1	28.7	71	ABC050A04
70	10.1	2.1	32.8	97	ABC070A04
95	11.9	2.3	38.4	135	ABC095A04

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bn-sales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

ALUMINIUM XLPE SECTOR CABLE



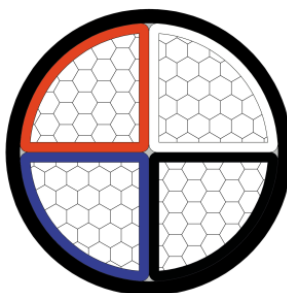
AUSTRALIA PACIFIC ELECTRIC CABLES

0.6/1KV to AS/NZS 4026 & 5000.1

Conductor: Aluminium
Compacted plain hard drawn

Insulation: XLPE X-90

Sheath: PVC 5V90 UV
Conductor temperature 90°C



Standard Colours:

Cores: Red, White, Blue & Black

Outer Sheath Colour: Black

Nominal Conductor area	Nominal Conductor diameter	Average Insulation thickness	Diameter Over laid- up cores	Outer Sheath Nominal thickness	Approx. overall diameter	Approx. mass	Product Code
mm ²	mm	mm	mm	mm	mm	kg/100m	
240.0	17.1 X 24.7	1.7	49.6	2.8	56.5	382.0	SCT240A04

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnsales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

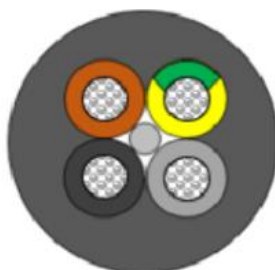
SUBMERSIBLE FLEXIBLE RUBBER



AUSTRALIA PACIFIC ELECTRIC CABLES

Colours

Phase Conductor:	Tinned Copper CL5	
Phase Insulation:	R-EP-90	Brown, Black, Grey
Earth Conductor:	R-EP-90	Green/Yellow
Sheath:	GP-90-CPE	Black



Nominal Conductor area mm ²	Nominal Conductor diameter mm	Average Insulation thickness mm	Maximum overall diameter mm ±10%	Approx. Mass kg/100m	Product Code
3 Core + Earth					
35	260/0.40	1.4	34.2	252.6	FXRUB035TCE03U

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

FIRE RATED POWER CABLES

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



AUSTRALIA PACIFIC ELECTRIC CABLES

Conductor: annealed copper
Insulation: X-HF110
Fire Barrier: Mica Tape
Sheath: HFS-110-TP
compounds for continuous
conductor temperature of 110°C
Low Smoke Zero Halogen

Standard Colours

Core: White

Sheath: Red

Nominal conductor area mm ²	AS 3013 Rating	Insulation Thickness	Average sheath thickness mm	Approximate overall diameter mm	Approximate mass kg/100m	Product Code
				Tolerance of approx. ± 5% will apply	Tolerance of approx. ± 5% will apply	
16	WS52W	0.07	1.4	11.4	25.0	FRF016
25	WS52W	0.9	1.4	13.1	35.5	FRF025
35	WS52W	1.9	1.4	14.7	46.0	FRF035
50	WS52W	1.0	1.5	16.8	59.5	FRF050
70	WS52W	1.1	1.5	18.8	83.0	FRF070
95	WS52W	1.1	1.6	20.6	110.5	FRF095
120	WS52W	1.2	1.7	22.6	136.0	FRF120
150	WS52W	1.4	1.7	24.8	167.5	FRF150
185	WS52W	1.6	1.8	27.3	206.0	FRF185
240	WS52W	1.7	1.9	31.1	260.0	FRF240
300	WS52W	1.8	2.0	33.4	328.5	FRF300
400	WS52W	2.0	2.1	37.9	415.0	FRF400
500	WS52W	2.2	2.3	42.0	527.0	FRF500

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnsales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

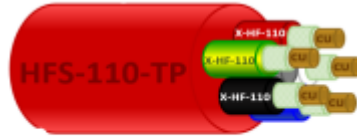
FIRE RATED POWER CABLES



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: Plain annealed copper

Insulation: X-HF110

Flame barrier: Mica tape

Sheath: HFS-110-TP

compounds for continuous
conductor temperature of 110°C.

Low Smoke Zero Halogen

Standard Colours

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

Sheath: Red

Power			Earth				
Nominal Conductor Area	Rating	Average Insulation thickness	Nominal conductor area	Average Insulation thickness	Approx. overall diameter	Approx. mass	Product Code
mm ²		mm	mm ²	mm	*mm	kg/100m	
					*Please note; Tolerance of approx. ± 10% will apply	*Please note; Tolerance of approx. ± 10% will apply	
10	WS52W	0.7	4	0.7	20.8	76.7	FRF010E04
16	WS52W	0.7	6	0.7	24.9	106.0	FRF016E04
25	WS52W	0.9	6	0.7	28.2	151.2	FRF025E04
35	WS52W	0.9	10	0.7	32.7	207.1	FRF035E04

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au



AUSTRALIA PACIFIC ELECTRIC CABLES

Instrumentation Cable

0.5mm PVC/PVC & SWA/PVC

PVC Insulated, PVC Sheathed,
0.5mm (7/030) Conductors
Individual & Overall Shield Constructions,
Manufactured to UL2464



Conductor: Plain Annealed Copper to AS1125
Insulation: (0.4mm) PVC V90
Sheath: PVC 5V90
Voltage: 110/150V

Standard Colours

Cores: Black & White numbered pairs
Tinned Copper Drain Wire
Sheath: Black

0.5mm Overall Shield (Cu/PVC/SCR/PVC)			
Pair Count	Overall Diameter mm	Approx mass kg/100m	Product Code
1	4.8	3.2	INSVO005P01B
2	7.2	5.8	INSVO005P02B
3	7.8	7.8	INSVO005P03B
4	8.5	9.5	INSVO005P04B
6	10.4	13.6	INSVO005P06B
8	11.6	18.1	INSVO005P08B
10	13.8	22.9	INSVO005P10B
12	14.2	26.0	INSVO005P12B
16	16.1	34.3	INSVO005P16B
20	17.8	42.8	INSVO005P20B
24	20.3	51.6	INSVO005P24B
36	23.3	72.4	INSVO005P36B
50	27.1	96.1	INSVO005P50B

0.5mm Individual & Overall Shield (Cu/PVC/SCR/PVC)			
Pair Count	Overall Diameter mm	Approx mass kg/100m	Product Code
2	8.0	6.9	INSVIO005P02B
4	9.6	11.6	INSVIO005P04B
6	11.6	16.6	INSVIO005P06B
8	13.0	22.1	INSVIO005P08B
10	15.4	27.9	INSVIO005P10B
12	15.9	31.8	INSVIO005P12B
16	18.1	42.1	INSVIO005P16B
20	19.9	52.5	INSVIO005P20B
24	22.8	63.3	INSVIO005P24B

0.5mm Overall Shield SWA (Cu/PVC/SCR/PVC/SWA/PVC)			
Pair Count	Overall Diameter mm	Approx mass kg/100m	Product Code
1	10.2	22.5	INSOS005P01B
2	12.4	30.5	INSVOS005P02B
4	13.5	36.9	INSVOS005P04B
6	15.2	44.7	INSVOS005P06B
8	16.4	51.8	INSVOS005P08B
10	18.4	47.0	INSVOS005P10B
12	18.8	48.3	INSVOS005P12B
16	20.7	55.2	INSVOS005P16B
20	22.7	72.9	INSVOS005P20B
24	25.0	82.2	INSVOS005P24B
36	28.0	145.2	INSVOS005P36B

0.5mm Individual & Overall Shield SWA (Cu/PVC/SCR/PVC/SWA/PVC)			
Pair Count	Overall Diameter mm	Approx mass kg/100m	Product Code
2	13.2	34.2	INSVIOS005P02B
4	14.6	41.9	INSVIOS005P04B
6	16.4	51.3	INSVIOS005P06B
8	17.8	59.8	INSVIOS005P08B
10	20.0	70.5	INSVIOS005P10B
12	20.5	75.5	INSVIOS005P12B
16	23.4	105.1	INSVIOS005P16B
20	24.8	118.1	INSVIOS005P20B
24	27.5	136.2	INSVIOS005P24B
36	30.9	172.1	INSVIOS005P36B

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au



AUSTRALIA PACIFIC ELECTRIC CABLES

Instrumentation Cable

0.75 Overall Shield

Cu/PVC/SCR/PVC

PVC Insulated, PVC Sheathed



Conductor: Plain Annealed Copper Class 2 to AS1125
Insulation: PVC V90
Sheath: PVC 5V90
Drain Wire: Stranded Tinned Copper (7/0.2mm)
Voltage: 110/150V

Standard Colours

Cores: Black & White numbered pairs

Sheath: Black

0.75mm Overall Shield (Cu/PVC/SCR/PVC)			
Pair Count	Overall Diameter mm	Approx mass kg/100m	Product Code
1	4.1	4.1	INSV00075PO1B
2	6.8	7.5	INSV00075PO2B
3	7.2	10.1	INSV00075PO3B
4	8.1	12.4	INSV00075PO4B

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bn-sales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

Instrumentation Cable

1.5mm PVC/PVC & SWA/PVC

PVC Insulated, PVC Sheathed,
1.5mm (7/050) Conductors
Individual & Overall Shield Constructions,
Manufactured to UL2464



AUSTRALIA PACIFIC ELECTRIC CABLES



Conductor: Plain Annealed Copper to AS1125
Insulation: (0.4mm) PVC V90
Sheath: PVC 5V90
Drain Wire: Tinned Copper Drain Wire
Voltage: 110/150V

Standard Colours

Cores: Black & White numbered pairs
Sheath: Black

1.5mm Overall Shield (Cu/PVC/SCR/PVC)			
Pair Count	Overall Diameter mm	Approx mass kg/100m	Product Code
1	6.2	5.8	INSVO105P01B
2	9.5	11.2	INSVO105P02B
4	11.5	19.7	INSVO105P04B
6	13.9	28.3	INSVO105P06B
8	15.4	37.1	INSVO105P08B
10	18.1	45.7	INSVO105P10B
12	19.1	54.6	INSVO105P12B
16	21.1	69.4	INSVO105P16B
20	23.1	85.1	INSVO105P20B
24	26.4	102.4	INSVO105P24B
36	30.4	146.7	INSVO105P36B

1.5mm Individual & Overall Shield (Cu/PVC/SCR/PVC)			
Pair Count	Overall Diameter Mm	Approx mass kg/100m	Product Code
2	10.5	12.6	INSVIO105P02B
4	12.7	22.3	INSVIO105P04B
6	15.4	32.0	INSVIO105P06B
8	17.1	42.0	INSVIO105P08B
10	20.1	51.7	INSVIO105P10B
12	21.2	61.8	INSVIO105P12B
16	23.5	78.6	INSVIO105P16B
20	25.6	96.4	INSVIO105P20B
24	29.4	116.1	INSVIO105P24B
36	33.9	166.4	INSVIO105P36B

1.5mm Overall Shield SWA (Cu/PVC/SCR/PVC/SWA/PVC)			
Pair Count	Overall Diameter mm	Approx mass kg/100m	Product Code
1	11.4	28.0	INSVOS105P01B
2	14.3	40.2	INSVOS105P02B
4	15.9	51.5	INSVOS105P04B
6	18.5	66.6	INSVOS105P06B
8	19.6	76.6	INSVOS105P08B
10	23.0	105.5	INSVOS105P10B
12	24.0	116.7	INSVOS105P12B
16	26.0	137.8	INSVOS105P16B
20	28.0	159.0	INSVOS105P20B
24	31.3	186.3	INSVOS105P24B
36	36.4	269.5	INSVOS105P36B

1.5mm Individual & Overall Shield SWA (Cu/PVC/SCR/PVC/SWA/PVC)			
Pair Count	Overall Diameter Mm	Approx mass kg/100m	Product Code
2	15.3	44.5	INSVIOS105P02B
4	17.1	57.2	INSVIOS105P04B
6	20.0	74.3	INSVIOS105P06B
8	22.0	99.3	INSVIOS105P08B
10	25.0	118.3	INSVIOS105P10B
12	26.1	130.9	INSVIOS105P12B
16	28.4	155.0	INSVIOS105P16B
20	30.5	176.5	INSVIOS105P20B
24	35.4	237.0	INSVIOS105P24B
36	39.9	304.1	INSVIOS105P36B

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au



AUSTRALIA PACIFIC ELECTRIC CABLES

Instrumentation Cable

0.5mm & 1.5mm Triad

PVC Insulated, PVC Sheathed,
0.5mm (7/030) & 1.5mm (7/050) Conductors
Individual & Overall Shield Constructions,
Manufactured to UL2464



Conductor: Plain Annealed Copper to AS1125
Insulation: (0.4mm) PVC V90
Sheath: PVC 5V90
Voltage: 110/150v

Standard Colours
Cores: Black, Red & White numbered cores
Tinned Copper Drain Wire
Sheath: Black

0.5mm Triad Overall Shield (Cu/PVC/SCR/PVC)			
Triad Count	Overall Diameter mm	Approx mass kg/100m	Product Code
1	5.1	4.0	INSV0005T01B
2	8.2	7.9	INSV0005T02B
4	9.7	13.3	INSV0005T04B
8	13.1	25.2	INSV0005T08B
12	15.4	30.9	INSV0005T12B

0.5mm Triad Overall Shield SWA (Cu/PVC/SCR/PVC/SWA/PVC)			
Triad Count	Overall Diameter mm	Approx mass kg/100m	Product Code
1	10.5	24.0	INSV0005T01B
2	13.2	34.2	INSV0005T02B
4	14.5	42.4	INSV0005T04B
8	17.5	60.3	INSV0005T08B
12	20.9	80.3	INSV0005T12B

1.5mm Triad Overall Shield (Cu/PVC/SCR/PVC)			
Triad Count	Overall Diameter mm	Approx mass kg/100m	Product Code
1	6.6	7.5	INSV0105T01B
2	10.8	15.5	INSV0105T02B
4	12.9	26.9	INSV0105T04B
8	17.5	52.3	INSV0105T08B
12	21.6	77.0	INSV0105T12B

1.5mm Triad Overall Shield SWA (Cu/PVC/SCR/PVC/SWA/PVC)			
Triad Count	Overall Diameter mm	Approx mass kg/100m	Product Code
1	11.8	30.7	INSV0105T01B
2	15.4	46.4	INSV0105T02B
4	17.5	62.4	INSV0105T04B
8	22.6	110.4	INSV0105T08B
12	26.3	144.2	INSV0105T12B

1.5mm Triad Individual & Overall Shield (Cu/PVC/SCR/PVC)			
Triad Count	Overall Diameter mm	Approx mass kg/100m	Product Code
2	11.9	17	INSVIO105T02B
4	14.6	31	INSVIO105T04B
6	17.4	43.7	INSVIO105T06B
8	19.2	57.4	INSVIO105T08B
12	23.8	84.5	INSVIO105T12B

1.5mm Triad Individual & Overall Shield SWA (Cu/PVC/SCR/PVC/SWA/PVC)			
Triad Count	Overall Diameter mm	Approx mass kg/100m	Product Code
2	16.5	50.5	INSVIO105T02B
4	18.8	68.2	INSVIO105T04B
6	22.5	102.2	INSVIO105T06B
8	24.3	120.9	INSVIO105T08B
12	28.5	158.5	INSVIO105T12B

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

GENERAL INFORMATION



AUSTRALIA PACIFIC ELECTRIC CABLES

MINIMUM COPPER EARTHING CONDUCTOR SIZE

Nominal Size of ACTIVE Conductor mm ²	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

*1.5mm² 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).

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

ELECTRICAL DATA



AUSTRALIA PACIFIC ELECTRIC CABLES

MAXIMUM D.C. RESISTANCE VALUES TABLE 1a

CLASS 2 STRANDED COPPER CONDUCTORS	*Solid Conductor
Nominal Conductor area mm ²	Max. D.C. Resistance at 20°C Ω/km Single Core & Multicore Plain Annealed Copper
0.75	25.3
*1.0	18.1
1.5	13.6
2.5	7.41
4.0	4.61
6.0	3.08
10	1.83
16	1.15
25	0.727
35	0.524
50	0.387
70	0.268
95	0.193
120	0.1530
150	0.124
185	0.0991
240	0.0754
300	0.0601
400	0.047
500	0.0366
630	0.0283

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bn-sales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

ELECTRICAL DATA



AUSTRALIA PACIFIC ELECTRIC CABLES

MAXIMUM D.C. RESISTANCE VALUES TABLE 1b

CLASS 5 FLEXIBLE COPPER SINGLE & MULTICORE

Nominal Conductor area mm ²	Max. D.C. Resistance at 20°C Ω/km
	Plain Annealed Copper
10	1.98
16	1.21
25	0.78
35	0.554
50	0.386
70	0.272
95	0.206
120	0.161
150	0.129
185	0.106
240	0.0801
300	0.0641
400	0.0486
500	0.0384
630	0.0287

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

ELECTRICAL DATA



AUSTRALIA PACIFIC ELECTRIC CABLES

MAXIMUM D.C. RESISTANCE VALUES TABLE 1c

STRANDED ALUMINIUM SINGLE & MULTICORE

Nominal Conductor area mm ²	Max. D.C. Resistance at 20°C Ω/km Single core Stranded Aluminium Conductors
4	7.41
6	4.61
10	3.08
16	1.91
25	1.2
35	0.868
50	0.641
70	0.443
95	0.32
120	0.253
150	0.206
185	0.164
240	0.125
300	0.100
400	0.0778
500	0.0605*
630	0.0469*

*Resistance values are applicable to single-core cables.
For multicore cables, these resistance values should be multiplied by 1.02.

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au

ELECTRICAL DATA



AUSTRALIA PACIFIC ELECTRIC CABLES

BENDING RADIUS

Recommended Minimum Bending Radius

Cable Description	During Installation	Fixed Location (installed)
Overall cable diameter \leq 25mm	6D	4D
Overall cable diameter over 25mm	9D	6D
Flexible cables of all diameters	6D	4D
Solid, Compacted or Sector shaped Aluminium conductors	12D	8D
Mica Glass taped cables	12D	8D
Armoured (SWA) cables	18D	12D
HDPE sheathed cables	25D	15D
Nylon jacketed cables	30D	20D
Where D= overall diameter of cable in mm		

The above table covers the recommended minimum bending radius for single core or multicore cables for working voltages up to and including 0.6/1KV.

When planning a cable installation, care should be taken to allow for as large a bending radius as possible, as excessive bending can be detrimental to cable life expectancy.

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnsales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au



**TECHNICAL DATA
CURRENT RATINGS AND VOLTAGE DROP**

TABLE 2

TWO SINGLE CORE V90 PVC or PVC/PVC 0.6 / 1 k V CABLES.

Cond. size	Unenclosed						Enclosed						Buried direct		Underground ducts				Single phase voltage drop mV/A.m	
	Spaced		Spaced from surface		Touching		In conduit or unenclosed		partially surrounded by thermal insulation		Completely surrounded by thermal insulation									
	mm ²	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu		
1	16		16		13		13		10		6		24		18		21		51.6	
1.5	21		21		16		16		13		8		31		24		27		33.0	
2.5	30		29		23		22		18		12		43		33		37		18.0	
4	40		39		31		30		24		16		56		42		48		11.2	
6	51		49		40		38		31		20		71		53		60		7.50	
10	69		67		54		53		42		27		94		71		79		4.49	
16	92	71	89	68	72	55	71	57	57	45	36	28	120	95	91	70	100	78	2.81	4.68
25	125	96	120	92	97	75	97	79	79	62	48	37	160	125	120	92	135	100	1.78	2.95
35	155	120	145	115	120	93	115	92	92	72	59	46	190	145	145	110	160	125	1.29	2.14
50	185	145	175	140	145	115	140	110	110	87	-	-	225	175	170	135	190	145	0.963	1.582
70	240	185	225	175	185	145	175	140	140	110	-	-	275	215	210	165	235	180	0.680	1.100
95	295	230	275	215	230	180	210	165	165	130	-	-	330	255	260	200	285	220	0.507	0.804
120	345	270	320	250	265	210	250	195	195	155	-	-	380	295	295	230	320	250	0.415	0.644
150	395	305	365	285	310	240	280	225	225	175	-	-	425	330	335	260	360	285	0.352	0.535
185	460	355	425	330	360	280	325	255	255	200	-	-	480	375	380	300	415	325	0.301	0.439
240	550	425	510	395	430	335	385	305	300	235	-	-	560	435	450	350	480	380	0.255	0.352
300	640	495	580	455	495	385	-	-	-	-	-	-	630	490	510	400	560	430	0.229	0.300
400	740	580	680	530	580	455	-	-	-	-	-	-	710	560	590	465	630	500	0.209	0.256
500	870	670	780	620	670	530	-	-	-	-	-	-	800	640	670	530	730	570	0.194	0.226
630	1010	790	900	730	770	630	-	-	-	-	-	-	900	740	770	620	830	660	0.181	0.202

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au



**TECHNICAL DATA
CURRENT RATINGS AND VOLTAGE DROP
TABLE 3**

TWO SINGLE CORE XLPE/PVC 90° 0.6 / 1 k V CABLES.

Cond. size	Unenclosed						Enclosed						Buried direct		Underground non-metallic wiring enclosure					
	Spaced		Spaced from surface		Touching		In non-metallic wiring unenclosed			partially surrounded by thermal insulation			Completely surrounded by thermal insulation							
mm ²	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
1	20	-	20	-	16	-	16	12	14	11	8	-	28	-	21	-	24	-	-	-
1.5	26	-	25	-	20	-	20	16	17	13	10	-	36	-	27	-	31	-	-	-
2.5	36	-	36	-	28	-	28	22	24	19	14	-	50	-	37	-	42	-	-	-
4	48	-	47	-	37	-	37	30	32	25	19	-	64	-	48	-	55	-	-	-
6	61	-	60	-	47	-	47	39	40	32	24	-	80	-	60	-	68	-	-	-
10	84	-	82	-	65	-	65	54	56	44	32	-	105	-	80	-	90	-	-	-
16	110	87	110	84	86	67	86	67	74	58	43	33	140	105	105	80	115	89	-	-
25	150	115	145	110	115	91	115	91	100	81	58	45	180	140	135	105	150	115	-	-
35	185	145	175	135	145	110	145	110	120	94	72	56	215	165	160	125	180	140	-	-
50	230	175	215	165	175	135	175	135	145	115	-	-	255	200	195	150	215	165	-	-
70	290	225	275	210	225	175	220	175	180	140	-	-	315	245	240	185	265	205	-	-
95	360	280	340	260	280	215	260	215	215	170	-	-	375	290	290	225	315	245	-	-
120	420	330	395	305	325	255	310	255	255	200	-	-	425	330	335	260	365	285	-	-
150	485	375	450	350	375	290	350	290	285	230	-	-	480	370	375	290	410	320	-	-
185	570	440	520	405	435	340	400	340	330	260	-	-	540	425	435	335	470	365	-	-
240	680	530	620	485	520	410	475	400	390	310	-	-	630	490	510	400	550	425	-	-
300	790	610	720	560	610	475	-	-	-	-	-	-	710	560	580	450	630	490	-	-
400	920	720	840	660	710	560	-	-	-	-	-	-	810	640	670	530	720	560	-	-
500	1080	850	970	770	820	660	-	-	-	-	-	-	910	730	760	610	820	650	-	-
630	1260	1000	1110	900	950	770	-	-	-	-	-	-	1030	830	890	720	950	750	-	-

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au



**TECHNICAL DATA
CURRENT RATINGS AND VOLTAGE DROP
TABLE 4**

TWO CORE V90 PVC/PVC 0.6 / 1 k V CABLES.

Cond. size	Unenclosed				Enclosed								Buried direct		U/ground ducts		Single phase voltage drop mV/A.m	
	Spaced		Touching		Conduit in air – round cable		Conduit in air – flat cable		In conduit or unenclosed partially surrounded by thermal insulation		Completely surrounded by thermal insulation		Cu	Al	Cu	Al		
mm ²	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
1	15		14		11		13		10		7		22		17		51.6	
1.5	19		18		14		17		13		9		28		22		33.0	
2.5	27		26		20		22		18		13		40		31		18.0	
4	37		34		26		29		24		17		52		40		11.2	
6	46		44		34		37		31		22		65		51		7.50	
10	64		60		47		50		43		30		87		68		4.46	
16	85	66	80	62	63	48	66	50	57	44	40	31	115	88	88	68	2.81	4.66
25	115	88	105	83	88	67	89	67	79	62	53	41	145	115	115	89	1.78	2.93
35	140	110	130	100	105	78	105	78	92	72	65	51	180	140	140	110	1.28	2.13
50	170	130	160	125	125	94	125	94	110	87	–	–	210	165	165	130	0.951	1.57
70	215	165	200	155	155	120	–	–	140	110	–	–	260	200	205	160	0.673	1.10
95	265	205	250	190	190	145	–	–	165	130	–	–	310	240	250	195	0.498	0.798
120	305	240	290	225	225	170	–	–	195	155	–	–	355	275	290	225	0.405	0.638
150	350	270	330	255	255	190	–	–	220	175	–	–	400	310	325	250	0.342	0.528
185	405	315	375	295	295	220	–	–	255	200	–	–	450	350	370	290	0.290	0.431
240	475	375	445	350	345	260	–	–	300	240	–	–	520	405	430	335	0.243	0.343
300	550	430	510	400	400	300	–	–	345	275	–	–	590	460	495	390	0.215	0.290
400	630	500	590	465	465	350	–	–	405	320	–	–	660	530	560	445	0.194	0.245
500	720	580	670	540	540	405	–	–	465	370	–	–	740	600	650	520	0.180	0.215

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au



TECHNICAL DATA
CURRENT RATINGS AND VOLTAGE DROP
TABLE 5

TWO CORE XLPE/PVC 90° 0.6 / 1 k V CABLES.

Cond. size	Unenclosed				Enclosed						Buried direct		Underground non-metallic wiring enclosure	
	Spaced		Touching		In non-metallic wiring unenclosed partially surrounded by thermal insulation			Completely surrounded by thermal insulation						
					Non-metallic wiring enclosure in air									
mm ²	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
1	18	-	17	-	13	10	14	11	9	-	26	-	20	-
1.5	24	-	22	-	17	13	17	14	11	-	33	-	25	-
2.5	34	-	31	-	24	18	24	18	16	-	46	-	35	-
4	45	-	42	-	33	24	32	25	21	-	60	-	46	-
6	57	-	53	-	42	32	41	32	27	-	75	-	57	-
10	78	-	73	-	59	44	56	44	36	-	100	-	77	-
16	105	81	97	75	79	60	74	58	49	38	130	100	100	78
25	140	110	130	100	110	84	105	81	66	51	170	130	130	100
35	175	135	160	125	130	99	120	94	81	63	205	160	160	120
50	210	165	195	155	160	120	145	115	-	-	245	190	190	145
70	270	210	250	195	200	155	180	140	-	-	300	235	235	180
95	330	255	310	240	240	185	215	170	-	-	360	280	285	220
120	385	300	360	280	285	220	255	200	-	-	410	320	325	255
150	440	340	410	320	325	250	285	230	-	-	460	355	375	290
185	510	395	475	370	375	290	330	265	-	-	520	405	425	330
240	600	470	560	440	445	350	390	310	-	-	600	470	500	390
300	690	540	640	510	520	405	450	355	-	-	680	530	570	450
400	800	640	750	590	600	475	520	415	-	-	770	610	650	520
500	920	730	850	680	770	620	620	495	-	-	860	690	750	600

Brisbane Office and Factory

89 Platinum Street,
 Crestmead, Qld 4132
 P: 07 3802 3651
 E: bn-sales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
 Thomastown, VIC 3074
 P: 03 9465 1188
 E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
 Kewdale, WA 6105
 P: 08 9350 1300
 E: salespdc@apeccables.com.au



**TECHNICAL DATA
CURRENT RATINGS AND VOLTAGE DROP
TABLE 6**

THREE SINGLE CORE V90 PVC or PVC/PVC 0.6 / 1 k V CABLES.

Cond size	Unenclosed						Enclosed						Buried direct		Underground ducts				Three phase voltage drop mV/A.m					
	Spaced		Spaced from surface		Touching		In conduit or un-enclosed partially surrounded by			Completely surrounded by thermal														
	mm ²	Cu	Al	Cu	Al	Cu	Al	Conduit in air	thermal insulation				Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
1	16	-	14	-	13	11	10	6	21	16	-	19	44.7	-	44.7	-	-	-	-	-	-	-	-	-
1.5	20	-	17	-	16	14	12	8	27	20	-	25	28.6	-	28.6	-	-	-	-	-	-	-	-	-
2.5	29	-	25	-	23	20	17	12	37	28	-	34	15.6	-	15.6	-	-	-	-	-	-	-	-	-
4	38	-	33	-	31	26	23	16	49	37	-	44	9.71	-	9.71	-	-	-	-	-	-	-	-	-
6	49	-	42	-	40	34	29	20	61	46	-	54	6.49	-	6.49	-	-	-	-	-	-	-	-	-
10	67	-	56	-	54	47	39	27	81	61	-	72	3.86	-	3.86	-	-	-	-	-	-	-	-	-
16	89	68	77	59	72	55	62	48	52	40	36	28	105	81	80	61	92	71	2.43	4.05	2.43	4.05	-	-
25	120	93	105	80	97	75	87	68	72	56	48	37	135	105	105	80	120	92	1.54	2.55	1.55	2.55	-	-
35	150	115	125	99	120	93	100	79	84	65	59	46	160	125	125	97	145	110	1.12	1.85	1.12	1.85	-	-
50	180	140	155	120	145	115	125	95	100	79	-	-	190	145	150	115	170	130	0.834	1.37	0.84	1.37	-	-
70	230	180	195	155	185	145	155	120	125	99	-	-	235	180	185	145	210	165	0.589	0.952	0.597	0.956	-	-
95	285	225	245	190	230	180	185	145	150	120	-	-	280	215	225	175	255	195	0.439	0.696	0.449	0.702	-	-
120	335	260	285	225	265	210	220	170	175	140	-	-	315	245	260	200	290	225	0.359	0.558	0.371	0.565	-	-
150	385	300	330	255	310	240	250	195	200	160	-	-	355	275	290	230	320	255	0.305	0.463	0.319	0.472	-	-
185	445	345	385	300	355	280	285	220	230	180	-	-	400	310	335	260	370	290	0.261	0.380	0.277	0.391	-	-
240	540	415	455	355	425	330	340	265	270	215	-	-	465	365	390	305	430	335	0.221	0.305	0.240	0.319	-	-
300	620	485	530	415	490	385	390	305	310	250	-	-	520	410	450	350	495	385	0.198	0.260	0.219	0.276	-	-
400	730	570	610	485	570	455	455	355	360	290	-	-	590	470	510	405	560	490	0.181	0.222	0.202	0.240	-	-
500	850	660	710	570	660	530	530	410	415	335	-	-	670	540	590	465	650	510	0.168	0.196	0.191	0.216	-	-
630	990	790	820	670	760	630	620	480	485	390	-	-	750	620	660	540	730	580	0.157	0.175	0.181	0.197	-	-

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au



**TECHNICAL DATA
CURRENT RATINGS AND VOLTAGE DROP
TABLE 7**

THREE SINGLE CORE XLPE/PVC 90° 0.6 / 1 k V CABLES.

Cond size	Unenclosed						Enclosed						Buried direct		Underground ducts				Three phase voltage drop mV/A.m					
	Spaced		Spaced from surface		Touching		In conduit or un-enclosed partially surrounded by			Completely surrounded by thermal														
	mm ²	Cu	Al	Cu	Al	Cu	Al	Conduit in air	thermal insulation				Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
1	19		16		16		14	10	8			24	18	22			46.8			46.8				
1.5	25		21		20		18	12	10			31	23	28			30.0			30.0				
2.5	35		30		28		25	17	14			42	32	39			16.4			16.4				
4	46		40		37		33	28	19			55	41	50			10.2			10.2				
6	59		50		47		42	36	24			68	52	62			6.81			6.81				
10	81		69		65		58	50	32			91	69	81			4.05			4.05				
16	110	84	92	71	86	67	78	64	66	53	43	33	115	96	89	69	105	80	2.55	4.25	2.55	4.25		
25	145	115	125	97	115	91	110	90	92	73	58	45	150	115	115	90	135	105	1.62	2.67	1.62	2.67		
35	180	140	155	120	145	110	125	105	105	85	72	56	180	140	140	110	160	125	1.17	1.94	1.18	1.94		
50	220	170	190	145	175	135	155	125	130	100	-	-	215	165	170	130	195	150	0.872	1.43	0.878	1.44		
70	280	220	240	185	225	175	190	160	160	130	-	-	260	205	210	165	235	185	0.615	0.997	0.623	1.00		
95	350	270	300	230	280	215	230	195	195	155	-	-	315	245	250	195	280	220	0.457	0.727	0.467	0.733		
120	410	320	350	270	325	255	270	230	225	180	-	-	365	275	290	225	325	255	0.373	0.582	0.385	0.589		
150	470	365	405	315	375	290	310	260	255	205	-	-	400	310	330	255	365	280	0.316	0.482	0.330	0.491		
185	550	425	470	365	435	340	355	300	295	235	-	-	450	350	375	290	420	325	0.269	0.394	0.285	0.404		
240	660	510	560	440	520	405	420	360	350	275	-	-	520	410	440	345	485	380	0.227	0.314	0.245	0.327		
300	770	600	650	510	600	470	485	415	400	320	-	-	590	465	510	400	560	435	0.202	0.266	0.222	0.281		
400	900	700	760	600	700	560	560	485	465	370	-	-	670	530	580	455	640	500	0.183	0.226	0.205	0.243		
500	1050	830	870	700	810	650	650	560	540	425	-	-	750	600	670	540	720	570	0.170	0.197	0.193	0.216		
630	1230	980	1010	820	940	770	760	660	630	500	-	-	840	690	760	620	830	660	0.159	0.177	0.182	0.198		

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnsales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au



**TECHNICAL DATA
CURRENT RATINGS AND VOLTAGE DROP**

TABLE 8

THREE AND FOUR CORE V90 PVC/PVC 0.6/1 k V CABLES.

Cond. size	Unenclosed				Enclosed								Buried direct		U/ground ducts		Three phase voltage drop mV/A.m	
	Spaced		Touching		Conduit in air – round cable		Conduit in air – flat cable		In conduit or unenclosed partially surrounded by thermal insulation		Completely surrounded by thermal insulation		Cu	Al	Cu	Al		
mm ²	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
1	13		12		10		12		10		6		19		15		44.7	
1.5	16		15		13		15		12		8		24		19		28.6	
2.5	23		22		18		20		17		11		34		26		15.6	
4	31		29		24		26		22		15		44		34		9.71	
6	40		37		31		34		29		19		55		43		6.49	
10	54		51		42		46		39		25		74		57		3.86	
16	72	56	68	53	56	43	60	46	52	40	34	26	96	75	74	58	2.43	4.04
25	97	75	91	71	79	60	83	63	72	56	46	35	125	97	96	75	1.54	2.54
35	120	93	110	87	92	70	92	70	84	65	56	43	150	115	115	91	1.11	1.84
50	145	115	135	105	110	84	110	84	100	79	-	-	180	140	140	110	0.829	1.36
70	185	145	170	135	140	105	-	-	125	99	-	-	220	170	175	135	0.583	0.948
95	230	180	215	165	165	125	-	-	150	120	-	-	265	205	210	165	0.431	0.691
120	265	205	245	195	195	150	-	-	175	140	-	-	300	235	240	190	0.351	0.552
150	305	235	280	220	225	170	-	-	200	160	-	-	335	265	270	210	0.296	0.457
185	350	275	325	255	260	195	-	-	230	180	-	-	380	300	310	245	0.251	0.373
240	410	325	385	305	305	230	-	-	270	215	-	-	440	345	370	290	0.210	0.297
300	470	375	440	345	-	-	-	-	-	-	-	-	495	390	415	325	0.186	0.251
400	540	440	500	405	-	-	-	-	-	-	-	-	560	450	480	385	0.168	0.212
500	620	500	570	460	-	-	-	-	-	-	-	-	620	500	540	435	0.156	0.186

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnsales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au



**TECHNICAL DATA
CURRENT RATINGS AND VOLTAGE DROP
TABLE 9**

THREE AND FOUR CORE XLPE/PVC 90° 0.6 / 1 k V CABLES.

Cond. size	Unenclosed				Enclosed						Buried direct		U/ground ducts		Three phase voltage drop mV/A.m	
	Spaced		Touching		In conduit or unenclosed partially surrounded by thermal insulation		Completely surrounded by thermal insulation									
mm ²	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
1	16	–	14	–	12	12	6	19	15	46.8						
1.5	20	–	19	–	16	16	8	24	19	30.0						
2.5	28	–	26	–	22	21	11	34	26	16.4						
4	38	–	35	–	29	28	15	44	34	10.2						
6	48	–	45	–	38	36	19	55	43	6.80						
10	66	–	62	–	53	50	25	74	57	4.05						
16	88	68	83	64	70	54	66	53	34	26	96	75	74	58	2.55	4.24
25	120	93	110	86	98	76	92	73	46	35	125	97	96	75	1.61	2.67
35	145	115	135	105	115	89	105	85	56	43	150	115	115	91	1.17	1.93
50	180	140	170	130	140	110	130	100	–	–	180	140	140	110	0.868	1.43
70	230	180	215	165	175	135	160	130	–	–	220	170	175	135	0.609	0.993
95	285	220	265	205	210	165	195	155	–	–	265	205	210	165	0.450	0.723
120	330	255	305	240	250	195	225	180	–	–	300	235	240	190	0.366	0.577
150	375	295	350	270	280	220	255	205	–	–	335	265	270	210	0.307	0.476
185	435	340	405	315	325	255	295	235	–	–	380	300	310	245	0.259	0.388
240	520	405	480	375	385	305	350	275	–	–	440	345	370	290	0.216	0.307
300	590	465	550	430	–	–	–	–	–	–	495	390	415	325	0.190	0.258
400	680	550	630	500	–	–	–	–	–	–	560	450	480	385	0.171	0.216
500	780	630	720	580	–	–	–	–	–	–	620	500	540	435	0.158	0.189

Brisbane Office and Factory

89 Platinum Street,
Crestmead, Qld 4132
P: 07 3802 3651
E: bnesales@apeccables.com.au

Melbourne Sales & Distribution

188 Holt Parade,
Thomastown, VIC 3074
P: 03 9465 1188
E: salesmdc@apeccables.com.au

Perth Sales & Distribution

638 Casella Place
Kewdale, WA 6105
P: 08 9350 1300
E: salespdc@apeccables.com.au