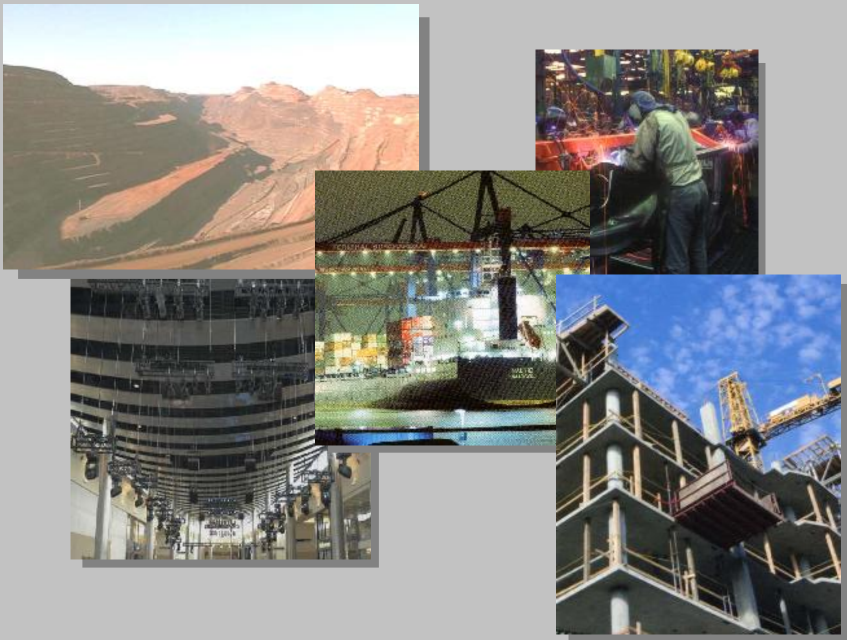
Cables And Equipment

Mining * Construction * Shipping * Manufacturing * Lighting & Entertainment



Power Cables*Festoon Systems*Conductor Systems*Connectors*Cable Reelers
High Voltage Couplers*Spring Reels*Grounding Reels*Fixed Power Cables
Fibre Cables*Data Accessories*Glands*Manufactured Leads*Tools*Slip Rings
Conveyor Monitoring Equipment*Auto Cables*Gaffa Reels*VSD Cables

Conductix wampfler | Aflex Cables | cmi Electrical Products | Noremak Cables And Systems | Xlpe Cables

Noremak Industries

General Product Catalogue 2009-2010

Noremak Industries Pty Ltd
12 Princess Street Beverley SA 5009 PH: 08 8244 7288 Fax 08 8244 7299 email:noremak@noremak.com.au

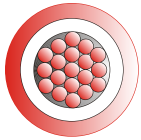
Section B Fixed Wiring & Automotive Cables
Contents

Fire Rated Cables

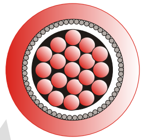
Noremak
Total Cable Solutions

Fire Resistant, Flame Retardant Low Smoke, Halogen Free

0.6/1 Kv Unarmoured and Armoured Fire Resistant Cables



A



B

	(A) Unarmoured Cables					(B) Armoured Cables				
	Part No	Insulation Thickness	Sheath Thickness	Approx O.D	Size mm sq	Part No	Bedding Thickness	Armour Wire Dia	Sheath Thickness	Approx O.D
Single Core	FR1C105	0.7	1.4	6.4	1.5	-	-	-	-	-
	FR1C205	0.7	1.4	6.8	2.5	-	-	-	-	-
	FR1C40	0.7	1.4	7.4	4.0	-	-	-	-	-
	FR1C60	0.7	1.4	7.9	6.0	-	-	-	-	-
	FR1C10	0.7	1.4	8.9	10.0	-	-	-	-	-
	FR1C16	0.7	1.4	9.9	16.0	-	-	-	-	-
	FR1C25	0.9	1.4	12.2	25.0	-	-	-	-	-
	FR1C35	0.9	1.4	13.5	35.0	-	-	-	-	-
	FR1C50	1.0	1.4	15.0	50.0	FR1C50SWA	1.0	0.90	1.8	20.0
	FR1C70	1.1	1.4	17.0	70.0	FR1C70SWA	1.0	1.25	1.8	22.5
	FR1C95	1.1	1.5	19.0	95.0	FR1C95SWA	1.0	1.25	1.8	24.0
	FR1C120	1.2	1.5	20.8	120.0	FR1C120SWA	1.0	1.60	1.8	27.0
	FR1C150	1.4	1.6	23.0	150.0	FR1C150SWA	1.0	1.60	1.8	29.0
	FR1C185	1.6	1.6	25.3	185.0	FR1C185SWA	1.0	1.60	1.9	31.3
	FR1C240	1.7	1.7	28.3	240.0	FR1C240SWA	1.0	1.60	2.0	35.0
	FR1C300	1.8	1.8	31.0	300.0	FR1C300SWA	1.0	1.60	2.1	37.0
	FR1C400	2.0	1.9	34.7	400.0	FR1C400SWA	1.2	2.0	2.3	42.0
	FR1C500	2.2	2.0	38.5	500.0	FR1C500SWA	1.2	2.0	2.4	46.0
	FR1C630	2.4	2.2	43.5	630.0	FR1C630SWA	1.2	2.0	2.5	51.0
Two Core Cables	FR2C105	0.7	1.8	10.4	1.5	FR2C105SWA	1.0	0.90	1.8	15.0
	FR2C205	0.7	1.8	11.2	2.5	FR2C205SWA	1.0	0.90	1.8	16.0
	FR2C40	0.7	1.8	12.3	4.0	FR2C40SWA	1.0	0.90	1.8	17.0
	FR2C60	0.7	1.8	13.5	6.0	FR2C60SWA	1.0	0.90	1.8	18.0
	FR2C10	0.7	1.8	15.7	10.0	FR2C10SWA	1.0	1.25	1.8	20.0
	FR2C16	0.7	1.8	17.8	16.0	FR2C16SWA	1.0	1.25	1.8	22.0
	FR2C25	0.9	1.8	21.2	25.0	FR2C25SWA	1.0	1.60	1.8	26.5

Handling And Installation

Minimum Bend Radius

Cable Type	Unarmoured		Armoured
Number Of Cores	Single Core	Multi Core	
	8x Dia	6 x Dia	10 x Dia

Cable Side Wall Pressure

Max side wall pressure to the cable at bending point during installation is 500 kgf/m

$$\text{Side Wall Pressure to cable} = \frac{\text{Pulling Tension (kgf)}}{\text{Bending Radius (m)}} = \frac{T}{R}$$

Does the cables your using Stand up to the test?

BS6387 is the UK Standard test used to determine cables performance to maintain circuit integrity under fire conditions using a number of alternatives time and temp parameters. Depending on level achieved by the cable, a letter is assigned using the 3 tests below.

Resistance To Fire

650 C For 3 Hours..................A
750 C For 3 Hours..................B
950 C For 3 Hours..................C

Resistance To Fire With Water

650 C For 15 Minutes
Then for 15 Minutes
with Fire and Water..................W

Resistance to Fire with Mechanical Shock

650 C for 15 Minutes with 30 Sec............X
Hammer Blows
750 C for 15 Minutes with 30 Sec............Y
Hammer Blows
950 C for 15 Minutes with 30 Sec
Hammer Blows..Z

Cables meeting the categories of C, W & Z achieves the highest performance level.

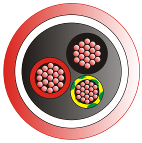
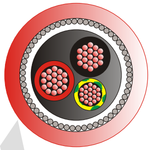
Glands For Fire Rated Cables Page F10

Noremak
Total Cable Solutions

Fire Rated Cables

Fire Resistant, Flame Retardant Low Smoke, Halogen Free

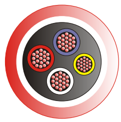
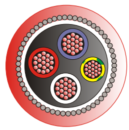
0.6/1 Kv Unarmoured and Armoured Fire Resistant Cables

Three Core Cables

(C) Unarmoured Cables					(D) Armoured Cables				
Part No	Insulation Thickness	Sheath Thickness	Approx O.D	Size mm sq	Part No	Bedding Thickness	Armour Wire Dia	Sheath Thickness	Approx O.D
FR2CE105	0.7	1.8	11.4	1.5	FR2CE105SWA	1.0	0.90	1.8	15.9
FR2CE205	0.7	1.8	12.3	2.5	FR2CE205SWA	1.0	0.90	1.8	16.8
FR2CE40	0.7	1.8	13.4	4.0	FR2CE40SWA	1.0	0.90	1.8	18.0
FR2CE60	0.7	1.8	14.7	6.0	FR2CE60SWA	1.0	1.25	1.8	20.0
FR2CE10	0.7	1.8	16.7	10.0	FR2CE10SWA	1.0	1.25	1.8	21.6
FR2CE16	0.7	1.8	18.5	16.0	FR2CE16SWA	1.0	1.25	1.8	23.8
FR2CE25	0.9	1.8	22.0	25.0	FR2CE25SWA	1.0	1.60	1.8	28.0
FR2CE35	0.9	1.8	25.0	35.0	FR2CE35SWA	1.0	1.60	1.8	31.0
FR2CE50	1.0	1.8	28.0	50.0	FR2CE50SWA	1.0	1.60	1.9	34.5
FR2CE70	1.1	1.9	32.0	70.0	FR2CE70SWA	1.2	2.00	2.1	40.5
FR2CE95	1.1	2.0	37.0	95.0	FR2CE95SWA	1.2	2.00	2.0	45.0
FR2CE120	1.2	2.1	42.0	120.0	FR2CE120SWA	1.2	2.00	2.3	49.0
FR2CE150	1.4	2.4	47.0	150.0	FR2CE150SWA	1.4	2.50	2.5	55.0
FR2CE185	1.6	2.4	52.0	185.0	FR2CE185SWA	1.4	2.50	2.7	60.0
FR2CE240	1.7	2.6	58.0	400.0	FR2CE240SWA	1.4	2.50	2.9	67.0
FR2CE300	1.8	2.7	64.0	300.0	FR2CE300SWA	1.6	2.50	3.0	74.0

0.6/1 Kv Unarmoured and Armoured Fire Resistant Cables To AS 3013

Four Core Cables

(C) Unarmoured Cables					(D) Armoured Cables				
	Insulation Thickness	Sheath Thickness	Approx O.D	Size	Part No	Bedding Thickness	Armour Wire Dia	Sheath Thickness	Approx O.D
FR3CE105	0.7	1.8	12.3	1.5	FR3CE105SWA	1.0	0.90	1.8	16.6
FR3CE205	0.7	1.8	13.3	2.5	FR3CE205SWA	1.0	0.90	1.8	17.7
FR3CE40	0.7	1.8	14.6	4.0	FR3CE40SWA	1.0	0.90	1.8	19.5
FR3CE60	0.7	1.8	16.0	6.0	FR3CE60SWA	1.0	1.25	1.8	21.0
FR3CE10	0.7	1.8	18.2	10.0	FR3CE10SWA	1.0	1.25	1.8	23.0
FR3CE16	0.7	1.8	21.0	16.0	FR3CE16SWA	1.0	1.25	1.8	26.4
FR3CE25	0.9	1.8	25.6	25.0	FR3CE25SWA	1.0	1.60	1.8	30.5
FR3CE35	0.9	1.8	28.6	35.0	FR3CE35SWA	1.0	1.60	1.9	34.2
FR3CE50	1.0	1.8	32.1	50.0	FR3CE50SWA	1.0	2.00	2.0	39.2
FR3CE70	1.1	2.0	37.0	70.0	FR3CE70SWA	1.2	2.00	2.2	44.0
FR3CE95	1.1	2.1	42.0	95.0	FR3CE95SWA	1.2	2.00	2.3	49.0
FR3CE120	1.2	2.3	47.0	120.0	FR3CE120SWA	1.2	2.00	2.5	45.0
FR3CE150	1.4	2.4	51.7	150.0	FR3CE150SWA	1.4	2.50	2.7	60.0
FR3CE185	1.6	2.6	57.7	185.0	FR3CE185SWA	1.4	2.50	2.8	66.0
FR3CE240	1.7	2.8	65.0	240.0	FR3CE240SWA	1.4	3.15	3.1.	75.0

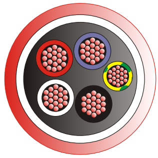
Glands For Fire Rated Cables Page F10

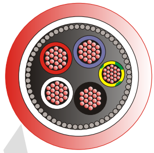
Fire Rated Cables

Noremak
Total Cable Solutions

Fire Resistant, Flame Retardant
Low Smoke, Halogen Free

0.6/1 Kv Unarmoured and
Armoured Fire Resistant Cables





Five Core Cables

(E) Unarmoured Cables					(F) Armoured Cables				
Part No	Insulation Thickness	Sheath Thickness	Approx O.D	Size mm sq	Part No	Bedding Thickness	Armour Wire Dia	Sheath Thickness	Approx O.D
FR4CE105	0.7	1.8	12.1	1.5	FR4CE105SWA	1.0	0.90	1.8	17.2
FR4CE205	0.7	1.8	12.5	2.5	FR4CE205SWA	1.0	0.90	1.8	18.4
FR4CE40	0.7	1.8	14.6	4.0	FR4CE40SWA	1.0	0.90	1.8	19.7
FR4CE60	0.7	1.8	16.1	6.0	FR4CE60SWA	1.0	1.25	1.8	22.3
FR4CE10	0.7	1.8	18.7	10.0	FR4CE10SWA	1.0	1.25	1.8	24.7
FR4CE16	0.7	1.8	21.6	16.0	FR4CE16SWA	1.0	1.25	1.8	26.0
FR4CE25	0.9	1.9	26.1	25.0	FR4CE25SWA	1.0	1.60	1.9	31.6
FR4CE35	0.9	2.1	29.5	35.0	FR4CE35SWA	1.0	1.60	2.1	37.3
FR4CE50	1.05	2.1	33.6	50.0	FR4CE50SWA	1.0	2.00	2.1	42.4
FR4CE70	1.15	2.4	39.2	70.0	FR4CE70SWA	1.2	2.00	2.4	4.2
FR4CE95	1.15	2.6	44.3	95.0	FR4CE95SWA	1.2	2.00	2.6	53.7
FR4CE120	1.25	2.6	19.5	120.0	FR4CE120SWA	1.4	2.5	2.6	59.8
FR4CE150	1.45	2.75	55.2	150.0	FR4CE150SWA	1.4	2.5	2.75	65.3

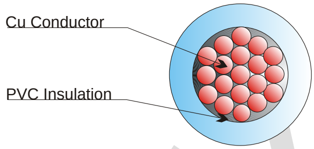
Maximum Resistance of Copper Conductors According to IEC 228 Class 2

Cross Section Area mm^2	Ohm/km
0.5	36.0
0.75	24.5
1.0.1.5	18.1
2.5	12.1
4.0	7.41
6.0	4.61
10.0	3.08
16.0	1.83
25.0	1.15
35.0	0.727
50.0	0.524
70.0	0.387
95.0	0.268
120.0	0.193
185.0	0.124
240.0	0.0991
300.0	0.754
400.0	0.0601
600.0	0.0470
630.0	0.0366
800.0	0.0283

Conductor Resistance Temperature Correction Factors	
Conductor Temp C°	Correction Factor
10	0.961
15	0.980
20	1.000
25	1.020
30	1.039
35	1.059
40	1.079
45	1.098
50	1.118
55	1.138
60	1.157
65	1.177
70	1.196
75	1.216
80	1.236
85	1.255
90	1.275
110	1.360
125	1.420

Glands For Fire Rated Cables Page F10

Single Core Copper
0.6/1 kV PVC V-75
To AS/NZS 5000.1

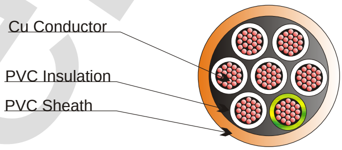


Conductor
Plain annealed copper conductor to AS 1125
Max continuous operating Temp 90 C
Insulation
V-75 PVC
Colours
Red, Black, White, Blue, Green/Yellow

Quick Reference
Nylon Glands Page F8
Metal Glands Page F9, F10
Lugs Page F1

Part No	Nominal Area MM^2	Stranding	Nom O.D	Insulation Thickness	Min Bending Radius mm	Weight kg/100m
BW015S*	1.50	7/0.50	3.20	0.8	15	2.20
BW025S*	2.50	7/0.67	3.70	0.8	15	3.40
BW040S*	4.00	7/0.85	4.60	1.0	20	5.40
BW060S*	6.00	7/1.04	5.20	1.0	20	7.60
BW10S*	10.0	7/1.35	6.10	1.0	25	11.4
BW16S*	16.0	7/1.70	7.20	1.0	30	17.6
BW25S*	25.0	19/1.35	9.10	1.2	35	27.1
BW35S*	35.0	19/1.53	10.10	1.2	40	36.2
BW50S*	50.0	19/1.78	11.90	1.4	50	50.6
BW70S*	70.0	19/2.14	13.50	1.4	55	69.1
BW95S*	95.0	37/1.78	15.90	1.6	65	97.2
BW120S*	120.0	37/2.03	17.70	1.6	70	119.0
BW150S*	150.0	37/2.25	19.50	1.8	80	147.0

Multi Core Copper
0.6/1 kV PVC V-75
To AS/NZS 5000.1



Conductor
Plain annealed copper conductor to AS 1125
Insulation
V-90 PVC
Sheath
V-90 PVC Black Or Orange
Colours
White Cores Numbered, Green Yellow

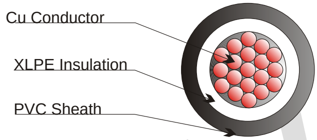
Quick Reference
Nylon Glands Page F8
Metal Glands Page F9, F10
Lugs Page F1

Part No	Nominal Area MM^2	Stranding	Stranding Earth	Nom O.D	Insulation Thickness	Min Bending Radius mm	Weight kg/100m
FC70505CE	5C+E x 1.50	7/0.50	7/0.50	13.9	1.8	60	24.9
FC70506CE	6C+E x 1.50	7/0.50	7/0.50	13.9	1.8	60	27.0
FC70508CE	8C+E x 1.50	7/0.50	7/0.50	16.8	1..8	70	35.2
FC705010CE	10C+E x 1.50	7/0.50	7/0.50	17.6	1.8	70	39.9
FC705012CE	12C+E x 1.50	7/0.50	7/0.50	17.6	1.8	70	44.4
FC705015CE	15C+E x 1.50	7/0.50	7/0.50	19.3	1.8	80	53.2
FC705020CE	20C+E x 1.50	7/0.50	7/0.50	22.2	1.8	90	57.4
FC705025CE	25C+E x 1.50	7/0.50	7/0.50	24.0	1.8	100	80.3
FC705030CE	30C+E x 1.50	7/0.50	7/0.50	25.7	1.8	160	93.6
FC70675CE	5C+E x 2.50	7/0.67	7/0.67	15.4	1.8	60	34.2
FC70676CE	6C+E x 2.50	7/0.67	7/0.67	15.4	1.8	60	37.0
FC70678CE	8C+E x 2.50	7/0.67	7/0.67	18.8	1.8	80	47.5
FC706710CE	10C+E x 2.50	7/0.67	7/0.67	19.6	1.8	80	55.8
FC706712CE	12C +E x 2.50	7/0.67	7/0.67	19.6	1.8	80	62.1
FC706715CE	15C+E x 2.50	7/0.67	7/0.67	21.6	1.8	90	74.8
FC706720CE	20C+E x 2.50	7/0.67	7/0.67	25.0	1.8	100	95.9
FC706725CE	25C+E x 2.50	7/0.67	7/0.67	27.0	1.8	160	115.0
FC705030CE	30C+E x 2.50	7/0.67	7/0.67	29.0	1.8	170	134.0

Add BK To Part No For Black Sheath

Fixed Wiring Cables

Single Core Copper XLPE Insulated, PVC Sheathed Cable To AS/NZS 5000.1

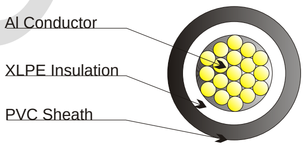


Conductor
Plain annealed copper conductor to AS 1125
Max continuous operating Temp 90 C
Insulation
X-90 XLPE Natural
Sheath
5V-90 PVC
Color : Black

Quick Reference
Nylon Glands Page F8
Metal Glands Page F9, F10
Lugs Page F1

Part No	Nominal Area MM^2	Stranding	Nom O.D	Insulation Thickness	Sheath Thickness	Min Bending Radius mm	Weight kg/100m
XLPE016S	16.0	7/1.70	10.0	0.7	1.4	40	21.0
XLPE025S	25.0	19/1.35	11.4	0.9	1.4	45	31.6
XLPE035S	35.0	19/1.53	12.5	0.9	1.4	50	41.1
XLPE050S	50.0	19/1.78	14.0	1.0	1.4	55	55.0
XLPE070S	70.0	19/2.14	16.0	1.1	1.4	65	74.5
XLPE095S	95.0	37/1.78	18.2	1.1	1.5	75	103.0
XLPE120S	120.0	37/2.03	20.0	1.2	1.5	80	126.0
XLPE150S	150.0	37/2.25	22.1	1.4	1.6	90	155.0
XLPE185S	185.0	37/2.52	24.4	1.6	1.6	100	193.0
XLPE240S	240.0	61/2.25	27.4	1.7	1.7	160	249.0
XLPE300S	300.0	61/2.52	30.3	1.8	1.8	180	312.0
XLPE400S	400.0	61/2.85	33.8	2.0	1.9	200	395.0
XLPE500S	500.0	61/3.20	37.5	2.2	2.0	220	495.0
XLPE630S	630.0	127/2.52	42.2	2.4	2.2	240	634.0

Single Core Aluminium XLPE Insulated, PVC Sheathed Cable To AS/NZS 5000.1

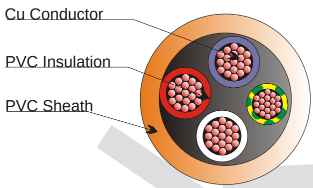


Conductor
Plain annealed aluminium conductor to AS 1125
Max continuous operating Temp 90 C
Insulation
V-90 XLPE Natural
Sheath
5V-90 PVC
Color : Black

Quick Reference
Nylon Glands Page F8
Metal Glands Page F9, F10

Part No	Nominal Area MM^2	Stranding	Nom O.D	Insulation Thickness	Sheath Thickness	Min Bending Radius mm	Weight kg/100m
XLPE025SAU	25.0	19/1.35	11.4	0.9	1.4	45	16.0
XLPE035SAU	35.0	19/1.53	12.5	0.9	1.4	50	19.0
XLPE050SAU	50.0	19/1.78	14.0	1.0	1.4	55	24.0
XLPE070SAU	70.0	19/2.14	16.0	1.1	1.4	65	33.0
XLPE095SAU	95.0	37/1.78	18.2	1.1	1.5	75	42.0
XLPE120SAU	120.0	37/2.03	20.0	1.2	1.5	80	52.0
XLPE150SAU	150.0	37/2.25	22.1	1.4	1.6	90	64.0
XLPE185SAU	185.0	37/2.52	24.4	1.6	1.6	100	78.0
XLPE240SAU	240.0	61/2.25	27.4	1.7	1.7	160	99.0
XLPE300SAU	300.0	61/2.52	30.3	1.8	1.8	180	122.0
XLPE400SAU	400.0	61/2.85	33.8	2.0	1.9	200	153.0
XLPE500SAU	500.0	61/3.20	37.5	2.2	2.0	220	190.0
XLPE630SAU	600.0	127/2.52	42.2	2.4	2.2	240	244.0

Multi Core + Earth 0.6/1kV PVC V90 PVC Insulated And Sheathed To AS/NZS 5000.1



Conductor
Plain annealed copper conductor to AS 1125
Insulation
V-90 PVC
Sheath
4V-75 PVC Orange Or Black
Colours
2+E: Red, Black, Green Yellow
3+E: Red, White, Blue, Green Yellow
4+E: Red, White, Blue, Black, Green Yellow

Quick Reference
Nylon Glands Page F8
Metal Glands Page F9, F10
Lugs Page F1

2C+E Conductors

Part No	Power Cores MM^2	Earth Core MM^2	Power Stranding	Earth Stranding	Nom Overall Dia	Sheath Thickness	Min Bending Radius mm
PVC70502CE	1.50	1.50	7/0.50	7/0.50	9.80	1.80	40
PVC70672CE	2.50	2.50	7/0.67	7/0.67	11.30	1.80	45
PVC70852CE	4.00	2.50	7/0.85	7/0.67	12.40	1.80	50
PVC71042CE	6.00	2.50	7/1.04	7/0.67	13.40	1.80	55

Standard Orange Suffix With BK To Part No For Black Sheath

3C+E Conductors

Part No	Power Cores MM^2	Earth Core MM^2	Power Stranding	Earth Stranding	Nom Overall Dia	Sheath Thickness	Min Bending Radius mm
PVC70503CE	1.50	1.50	7/0.50	7/0.50	10.5	1.80	40
PVC70673CE	2.50	2.50	7/0.67	7/0.67	12.2	1.80	50
PVC70853CE	4.00	2.50	7/0.85	7/0.67	13.5	1.80	55
PVC71043CE	6.00	2.50	7/1.04	7/0.67	14.6	1.80	60

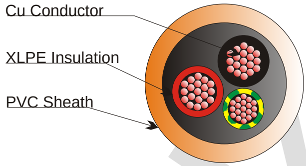
Standard Orange Suffix With BK To Part No For Black Sheath

4C+E Conductors

Part No	Power Cores MM^2	Earth Core MM^2	Power Stranding	Earth Stranding	Nom Overall Dia	Sheath Thickness	Min Bending Radius mm
PVC70504CE	1.50	1.50	7/0.50	7/0.50	11.2	1.80	45
PVC70674CE	2.50	2.50	7/0.67	7/0.67	13.1	1.80	50
PVC70854CE	4.00	2.50	7/0.85	7/0.67	14.7	1.80	60
PVC71044CE	6.00	2.50	7/1.04	7/0.67	16.0	1.80	65

Standard Orange Suffix With BK To Part No For Black Sheath

2 Core + E Copper XLPE Insulated, PVC Sheathed To AS/NZS 5000.1



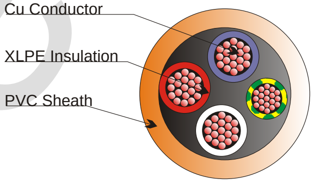
Conductor
Plain annealed copper conductor to AS 1125
Max continuous operating Temp 90 C
Insulation
X-90 XLPE
Red, White Blue, Earth
Sheath
5V-90 PVC
Orange Or Black

Quick Reference
Nylon Glands Page F8
Metal Glands Page F9, F10
Lugs Page F1

Part No	Power Cores MM^2	Earth Core MM^2	Power Stranding	Earth Stranding	Nom Overall Dia	Min Bending Radius mm
XLPE102CE	10.0	4.0	7/1.35	7/0.85	16.6	70.0
XLPE162CE	16.0	6.0	7/1.70	7/1.04	17.6	70.0
XLPE252CE	25.0	6.0	19/1.35	7/1.04	21.6	90.0
XLPE352CE	35.0	10.0	C.C	7/1.35	21.3	106.5
XLPE502CE	50.0	16.0	C.C	7/1.70	24.8	124.0
XLPE702CE	70.0	25.0	C.C	19/1.35	28.2	141.5
XLPE952CE	95.0	25.0	C.C	19/1.35	32.9	165.0
XLPE1202CE	120.0	35.0	C.C	19/1.53	37.6	188.0

Add BK To Part No For Black Sheath

3 Core + E Copper XLPE Insulated, PVC Sheathed Cable To AS/NZS 5000.1



Conductor
Plain annealed copper conductor to AS 1125
Max continuous operating Temp 75 C
Insulation
V-90 XLPE Natural
Red, White, Blue, Earth
Sheath
5V-90 PVC
Color : Black Or Orange

Quick Reference
Nylon Glands Page F8
Metal Glands Page F9, F10
Lugs Page F1

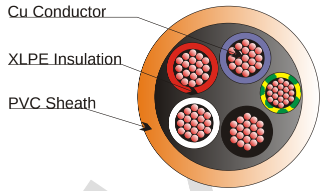
Part No	Power Cores MM^2	Earth Core MM^2	Power Stranding	Earth Stranding	Nom Overall Dia	Min Bending Radius mm
XLPE103CE	10.0	4.0	7/1.35	7/0.85	17.9	70
XLPE163CE	16.0	6.0	7/1.70	7/1.04	19.6	80
XLPE253CE	25.0	6.0	19/1.35	7/1.04	22.6	90
XLPE353CE	35.0	10.0	19/1.53	7/1.35	25.3	150
XLPE503CE	50.0	16.0	19/1.78	7/1.70	28.7	170
XLPE703CE	70.0	25.0	19/2.14	19/1.35	33.3	200
XLPE953CE	95.0	25.0	37/1.78	19/1.35	37.3	220
XLPE1203CE	120.0	35.0	37/2.03	19/1.53	41.4	250
XLPE1503CE	150.0	50.0	37/2.25	19/1.71	46.4	280
XLPE1853CE	185.0	70.0	37/2.52	19/2.14	51.9	310
XLPE2403CE	240.0	95.0	61/2.25	37/1.78	59.1	350

Add BK To Part No For Black Sheath

Noremak
Total Cable Solutions

Fixed Wiring Cables

4 Core + E Copper XLPE Insulated, PVC Sheathed Cable To AS/NZS 5000.1



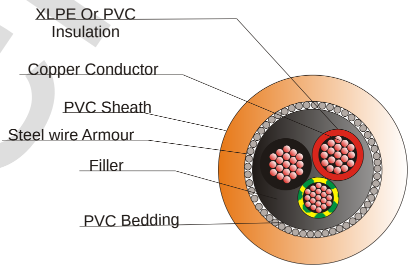
Conductor
Plain annealed copper conductor to AS 1125
Max continuous operating Temp 75 C
Insulation
V-90 XLPE Natural
Red, White, Blue, Black, Earth
Sheath
5V-90 PVC
Color : Black Or Orange

Quick Reference
Nylon Glands Page F8
Metal Glands Page F9, F10
Lugs Page F1

Part No	Power Cores MM^2	Earth Core MM^2	Power Stranding	Earth Stranding	Nom Overall Dia	Sheath Thickness	Min Bending Radius mm
XLPE104CE	10.0	4.0	7/1.35	7/0.85	19.6	1.8	80
XLPE164CE	16.0	6.0	7/1.70	7/1.04	21.5	1.8	90
XLPE254CE	25.0	6.0	19/1.35	7/1.04	25.1	1.8	100
XLPE354CE	35.0	10.0	19/1.53	7/1.35	28.1	1.8	170
XLPE504CE	50.0	16.0	19/1.78	7/1.70	32.2	1.8	190
XLPE704CE	70.0	25.0	19/2.14	19/1.35	37.4	1.9	220
XLPE954CE	95.0	25.0	37/1.78	19/1.35	42.1	2.0	250
XLPE1204CE	120.0	35.0	37/2.03	19/1.53	46.7	2.1	280
XLPE1504CE	150.0	50.0	37/2.25	19/1.71	52.3	2.3	310
XLPE1854CE	185.0	70.0	37/2.52	19/2.14	58.6	2.4	350
XLPE2404CE	240.0	95.0	61/2.25	37/1.78	66.2	2.6	400

Add BK To Part No For Black Sheath

2 Core + E Copper XLPE Insulated, PVC Sheathed Steel Wire Armoured Cable To AS/NZS 5000.1



Conductor
Plain annealed copper conductor to AS 1125
Max continuous operating Temp 90 C
Insulation
PVC 1.5 To 6.0mm
X-90 XLPE 10.0mm To 25.0mm
Red, Black, Earth
Sheath
V-90 PVC 1.5-6.0
5V90 XLPE 10.0-16.0
Orange Or Black

Quick Reference
Nylon Glands Page F8
Metal Glands Page F9, F10
Lugs Page F1

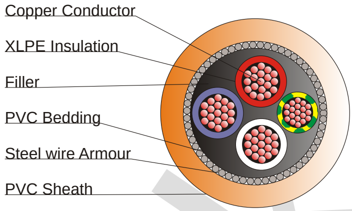
Part No	Power Cores MM^2	Earth Core MM^2	Power Stranding	Earth Stranding	Nom Overall Dia	Dia Under SWA	Min Bending Radius mm
FC70502CESWA	1.50	1.50	7/0.50	7/0.50	14.5	8.0	170
FC70672CESWA	2.50	2.50	7/0.67	7/0.67	15.2	9.5	180
FC70852CESWA	4.00	2.50	7/0.85	7/0.67	17.1	10.6	210
FC71042CESWA	6.00	2.50	7/1.04	7/0.67	18.1	11.6	220
XLPE102CESWA	10.00	4.00	7/1.35	7/0.85	21.3	15.8	250
XLPE162CESWA	16.00	6.00	7/1.70	7/1.04	23.3	17.9	280
XLPE252CESWA	25.00	6.00	19//1.35	7/1.04	27.5	22.1	340

Add BK To Part No For Black Sheath

Noremak Total Cable Solutions

Fixed Wiring Cables

3 Core + E Copper XLPE Insulated, PVC Sheathed Steel Wire Armoured Cable To AS/NZS 5000.1



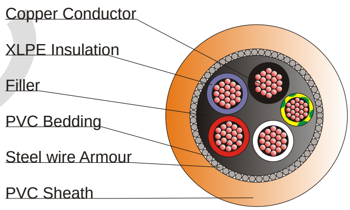
Conductor
Plain annealed copper conductor to AS 1125
Max continuous operating Temp 90 C
Insulation
X-90 XLPE
Red, White Blue, Earth
Sheath
5V-90 PVC
Orange Or Black

Quick Reference
Nylon Glands Page F8
Metal Glands Page F9, F10
Lugs Page F1

Part No	Power Cores MM^2	Earth Core MM^2	Power Stranding	Earth Stranding	Nom Overall Dia	Dia Under SWA	Min Bending Radius mm
XLPE103CESWA	10.0	4.0	7/1.35	7/0.85	17.9	18.0	300
XLPE163CESWA	16.0	6.0	7/1.70	7/1.04	19.6	19.9	320
XLPE253CESWA	25.0	6.0	19/1.35	7/1.04	22.6	22.4	340
XLPE353CESWA	35.0	10.0	19/1.53	7/1.35	25.3	24.7	370
XLPE503CESWA	50.0	16.0	C.C	7/1.70	28.7	28.4	410
XLPE703CESWA	70.0	25.0	C.C	19/1.35	33.3	32.5	480
XLPE953CESWA	95.0	25.0	C.C	19/1.35	37.3	37.1	530
XLPE1203CESWA	120.0	35.0	C.C	19/1.53	41.4	41.6	580
XLPE1503CESWA	150.0	50.0	C.C	C.C	46.4	46.9	660
XLPE1853CESWA	185.0	70.0	C.C	C.C	51.9	52.4	720
XLPE2403CESWA	240.0	95.0	C.C	C.C	59.1	59.3	800

Add BK To Part No For Black Sheath

4 Core + E Copper XLPE Insulated, PVC Sheathed Steel Wire Armoured Cable To AS/NZS 5000.1



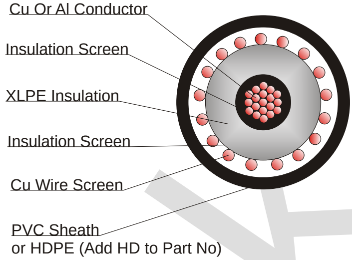
Conductor
Plain annealed copper conductor to AS 1125
Max continuous operating Temp 90 C
Insulation
X-90 XLPE
Red, White Blue Black, Earth
Sheath
5V-90 PVC
Orange Or Black

Quick Reference
Nylon Glands Page F8
Metal Glands Page F9, F10
Lugs Page F1

Part No	Power Cores MM^2	Earth Core MM^2	Power Stranding	Earth Stranding	Nom Overall Dia	Dia Under SWA	Min Bending Radius mm
XLPE104CESWA	10.0	4.0	7/1.35	7/0.85	24.9	20.0	320
XLPE164CESWA	16.0	6.0	7/1.70	7/1.04	27.7	23.0	340
XLPE254CESWA	25.0	6.0	19/1.35	7/1.04	30.5	25.5	370
XLPE354CESWA	35.0	10.0	19/1.53	7/1.35	34.7	28.6	410
XLPE504CESWA	50.0	16.0	C.C	7/1.70	38.6	32.0	570
XLPE704CESWA	70.0	25.0	C.C	19/1.35	44.4	37.5	530
XLPE954CESWA	95.0	25.0	C.C	19/1.35	48.9	41.5	590
XLPE1204CESWA	120.0	35.0	C.C	19/1.53	55.2	47.3	660
XLPE1504CESWA	150.0	50.0	C.C	C.C	60.8	52.1	730
XLPE1854CESWA	185.0	70.0	C.C	C.C	67.4	58.8	800
XLPE2404CESWA	240.0	95.0	C.C	C.C	76.5	66.3	910

Add BK To Part No For Black Sheath

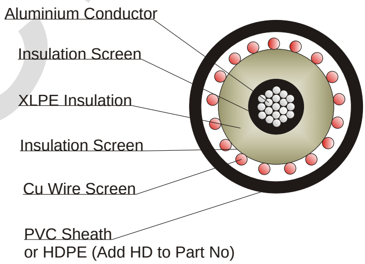
6.35/11KV
XLPE Copper Wire Screened And PVC Sheathed Cable To AS/NZS 1429.1



Copper Conductor High Fault Level

Part No	Power Core MM^2	Screen MM^2	Nom Overall Dia	Resistance DC @ 20C (Ohm/km)	Resistance DC @ 90C (Ohm/km)	Bending Radius Min During Installation	Bending Radius Min Set
HV1C035	35.0	35.0	24.5	0.524	0.668	450	300
HV1C050	50.0	50.0	25.5	0.387	0.494	460	310
HV1C070	70.0	70.0	28.1	0.268	0.342	510	340
HV1C095	95.0	91.0	29.8	0.193	0.247	540	360
HV1C120	120.0	91.0	31.2	0.153	0.196	570	380
HV1C150	150.0	91.0	32.8	0.124	0.159	600	400
HV1C185	185.0	91.0	34.6	0.0991	0.128	630	420
HV1C240	240.0	91.0	37.4	0.0754	0.0980	680	450
HV1C300	300.0	91.0	40.3	0.0601	0.0790	730	490
HV1C400	400.0	91.0	43.7	0.0470	0.0631	790	530
HV1C500	500.0	91.0	47.0	0.0366	0.0508	850	570

6.35/11KV
XLPE Aluminium Wire Screened And PVC Sheathed Cable To AS/NZS 1429.1

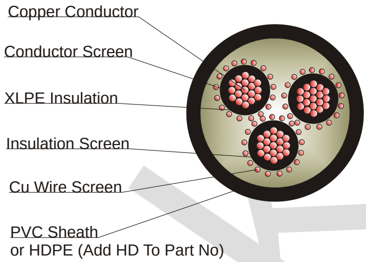


Aluminium Conductor High Fault Level

Part No	Power Core MM^2	Screen MM^2	Nom Overall Dia	Resistance DC @ 20C (Ohm/km)	Resistance DC @ 90C (Ohm/km)	Bending Radius Min During Installation	Bending Radius Min Set
HV1C035AL	35.0	23.0	24.0	0.868	1.11	440	290
HV1C050AL	50.0	32.0	25.5	0.641	0.822	460	310
HV1C070AL	70.0	46.0	28.1	0.443	0.568	510	340
HV1C095AL	95.0	63.0	29.8	0.320	0.411	540	360
HV1C120AL	120.0	79.0	31.3	0.253	0.325	570	380
HV1C150AL	150.0	91.0	32.8	0.206	0.265	600	400
HV1C185AL	185.0	91.0	34.4	0.164	0.211	620	420
HV1C240AL	240.0	91.0	37.4	0.125	0.161	680	450
HV1C300AL	300.0	91.0	40.3	0.100	0.130	730	490
HV1C400AL	400.0	91.0	43.7	0.0778	0.102	790	530
HV1C500AL	500.0	91.0	47.0	0.0605	0.0802	850	570

Fixed Wiring Cables

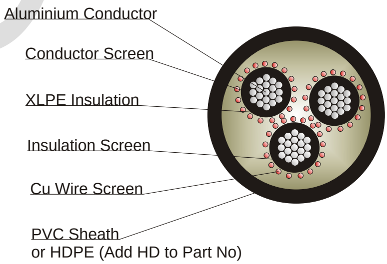
6.35/11KV
XLPE Copper 3 Core Wire Screened And PVC Sheathed Cable To AS/NZS 1429.1



Copper Conductor High Fault Level

Part No	Power Core MM²	Screen MM²	Nom Overall Dia	Resistance DC @ 20C (Ohm/km)	Resistance DC @ 90C (Ohm/km)	Bending Radius Min: During Installation	Bending Radius Min: Set
HV3C035	35.0	12.0	46.4	0.524	0.668	840	560
HV3C050	50.0	16.0	50.2	0.387	0.494	910	610
HV3C070	70.0	23.0	54.0	0.268	0.342	980	650
HV3C095	95.0	31.0	57.9	0.193	0.247	1050	700
HV3C120	120.0	31.0	61.1	0.153	0.196	1100	740
HV3C150	150.0	31.0	64.3	0.124	0.159	1160	780
HV3C185	185.0	31.0	68.3	0.0991	0.128	1230	820
HV3C240	240.0	31.0	74.3	0.0754	0.0984	1340	900
HV3C300	300.0	31.0	80.4	0.0601	0.0796	1450	970

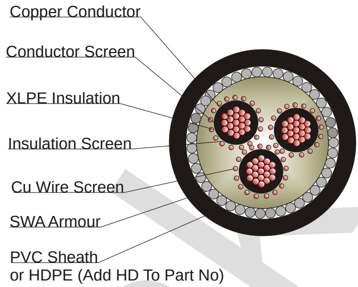
6.35/11KV
XLPE Aluminium 3 Core Wire Screened And PVC Sheathed Cable To AS/NZS 1429.1



Aluminium Conductor High Fault Level

Part No	Power Core MM²	Screen MM²	Nom Overall Dia	Resistance DC @ 20C (Ohm/km)	Resistance DC @ 90C (Ohm/km)	Bending Radius Min: During Installation	Bending Radius Min: Set
HV3C035AL	35.0	9.0	46.4	0.868	1.11	840	560
HV3C050AL	50.0	11.0	50.2	0.641	0.822	910	610
HV3C070AL	70.0	15.0	54.0	0.443	0.568	980	650
HV3C095AL	95.0	21.0	57.9	0.320	0.411	1050	700
HV3C120AL	120.0	23.0	61.1	0.253	0.325	1100	740
HV3C150AL	150.0	36.0	64.3	0.206	0.265	1160	780
HV3C185AL	185.0	31.0	68.3	0.164	0.211	1230	820
HV3C240AL	240.0	31.0	74.3	0.125	0.162	1340	900
HV3C300AL	300.0	31.0	80.4	0.100	0.130	1450	970

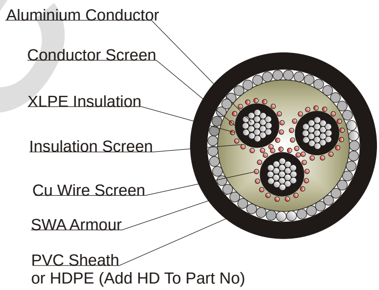
6.35/11KV
XLPE Copper 3 Core Wire Screened Steel Wire Armoured And PVC Sheathed Cable To AS/NZS 1429.1



Copper Conductor High Fault Level

Part No	Power Core MM^2	Screen MM^2	Nom Overall Dia	Resistance DC @ 20C (Ohm/km)	Resistance DC @ 90C (Ohm/km)	Bending Radius Min: During Installation	Bending Radius Min: Set
HV3C035SWA	35.0	12.0	54.8	0.524	0.668	990	660
HV3C050SWA	50.0	16.0	58.7	0.387	0.494	1060	710
HV3C070SWA	70.0	23.0	62.8	0.268	0.342	1130	760
HV3C095SWA	95.0	31.0	66.8	0.193	0.247	1210	810
HV3C120SWA	120.0	31.0	70.3	0.153	0.196	1270	850
HV3C150SWA	150.0	31.0	73.7	0.124	0.159	1330	890
HV3C185SWA	185.0	31.0	79.0	0.0991	0.128	1430	950
HV3C240SWA	240.0	31.0	85.2	0.0754	0.0984	1540	1030

6.35/11KV
XLPE Aluminium 3 Core Wire Screened Steel Wire Armoured And PVC Sheathed Cable To AS/NZS 1429.1



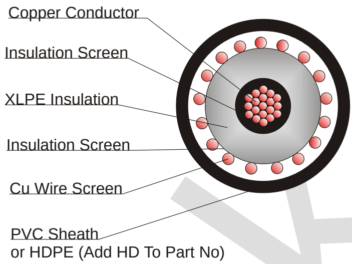
Aluminium Conductor High Fault Level

Part No	Power Core MM^2	Screen MM^2	Nom Overall Dia	Resistance DC @ 20C (Ohm/km)	Resistance DC @ 90C (Ohm/km)	Bending Radius Min: During Installation	Bending Radius Min: Set
HVA3C035SWA	35.0	9.0	54.8	0.868	1.11	990	660
HVA3C050SWA	50.0	11.0	58.7	0.641	0.822	1060	710
HVA3C070SWA	70.0	15.0	62.8	0.443	0.568	1130	760
HVA3C095SWA	95.0	21.0	66.8	0.320	0.411	1210	810
HVA3C120SWA	120.0	23.0	70.3	0.253	0.325	1270	850
HVA3C150SWA	150.0	26.0	73.7	0.206	0.265	1330	890
HVA3C185SWA	185.0	31.0	79.0	0.164	0.211	1430	950
HVA3C240SWA	240.0	31.0	85.2	0.125	0.162	1540	1030

Fixed Wiring Cables

Noremak
Total Cable Solutions

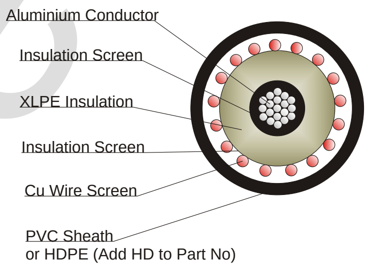
12.7/22KV XLPE Copper Wire Screened And PVC Sheathed Cable To AS/NZS 1429.1



Copper Conductor High Fault Level

Part No	Power Core MM²	Screen MM²	Nom Overall Dia	Resistance DC @ 20C (Ohm/km)	Resistance DC @ 90C (Ohm/km)	Bending Radius Min: During Installation	Bending Radius Min: Set
HVA1C035	35.0	35.0	28.9	0.524	0.668	520	350
HVA1C050	50.0	50.0	29.9	0.387	0.494	540	360
HVA1C070	70.0	70.0	32.7	0.268	0.342	590	400
HVA1C095	95.0	91.0	34.4	0.193	0.247	620	420
HVA1C120	120.0	91.0	36.0	0.153	0.196	650	440
HVA1C150	150.0	91.0	37.8	0.124	0.159	690	460
HVA1C185	185.0	91.0	39.8	0.0991	0.128	720	480
HVA1C240	240.0	91.0	42.2	0.0754	0.0977	760	510
HVA1C300	300.0	91.0	44.9	0.0601	0.0788	810	540
HVA1C400	400.0	91.0	48.5	0.0470	0.0627	880	590
HVA1C500	500.0	91.0	52.0	0.0366	0.0503	940	630

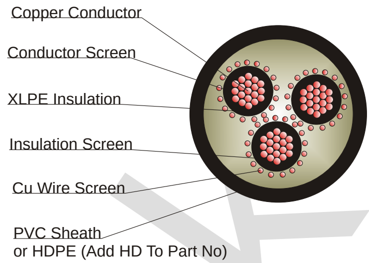
12.7/22KV XLPE Aluminium Copper Wire Screened And PVC Sheathed Cable To AS/NZS 1429.1



Aluminium Conductor High Fault Level

Part No	Power Core MM²	Screen MM²	Nom Overall Dia	Resistance DC @ 20C (Ohm/km)	Resistance DC @ 90C (Ohm/km)	Bending Radius Min: During Installation	Bending Radius Min: Set
HVA1C035AL	35.0	35.0	28.4	0.868	1.11	520	350
HVA1C050AL	50.0	50.0	29.9	0.641	0.822	540	360
HVA1C070AL	70.0	70.0	32.7	0.443	0.568	590	400
HVA1C095AL	95.0	91.0	34.4	0.320	0.411	620	420
HVA1C120AL	120.0	91.0	36.1	0.253	0.325	650	440
HVA1C150AL	150.0	91.0	37.8	0.206	0.265	690	460
HVA1C185AL	185.0	91.0	39.6	0.164	0.211	720	480
HVA1C240AL	240.0	91.0	42.2	0.125	0.161	760	510
HVA1C300AL	300.0	91.0	44.9	0.100	0.130	810	540
HVA1C400AL	400.0	91.0	48.5	0.0778	0.101	880	590
HVA1C500AL	500.0	91.0	52.0	0.0605	0.0799	940	630

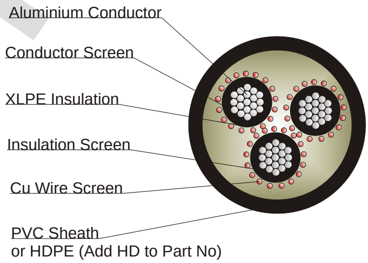
12.7/22KV
XLPE Copper 3 Core Copper Wire Screened And PVC Sheathed Cable To AS/NZS 1429.1



Copper Conductor High Fault Level

Part No	Power Core MM^2	Screen MM^2	Nom Overall Dia	Resistance DC @ 20C (Ohm/km)	Resistance DC @ 90C (Ohm/km)	Bending Radius Min: During Installation	Bending Radius Min: Set
HVA3C035	35.0	12.0	56.5	0.524	0.668	1020	680
HVA3C050	50.0	16.0	60.4	0.387	0.494	1090	730
HVA3C070	70.0	23.0	64.1	0.268	0.342	1160	770
HVA3C095	95.0	31.0	68.0	0.193	0.247	1230	820
HVA3C120	120.0	31.0	71.2	0.153	0.196	1290	860
HVA3C150	150.0	31.0	75.3	0.124	0.159	1360	910
HVA3C185	185.0	31.0	79.3	0.0991	0.128	1430	960
HVA3C240	240.0	31.0	84.4	0.0754	0.0981	1520	1020
HVA3C300	300.0	31.0	90.7	0.0601	0.0792	1640	1090

12.7/22KV
XLPE Aluminium 3 Core Copper Wire Screened And PVC Sheathed Cable To AS/NZS 1429.1

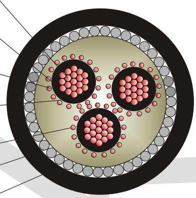


Aluminium Conductor High Fault Level

Part No	Power Core MM^2	Screen MM^2	Nom Overall Dia	Resistance DC @ 20C (Ohm/km)	Resistance DC @ 90C (Ohm/km)	Bending Radius Min: During Installation	Bending Radius Min: Set
HVA3C050AL	50.0	11.0	60.4	0.641	0.822	1070	710
HVA3C070AL	70.0	15.0	64.1	0.443	0.568	1130	760
HVA3C095AL	95.0	21.0	68.0	0.320	0.411	1230	820
HVA3C120AL	120.0	23.0	71.2	0.253	0.325	1290	860
HVA3C150AL	150.0	26.0	75.3	0.206	0.265	1360	910
HVA3C185AL	185.0	31.0	79.3	0.164	0.211	1420	950
HVA3C240AL	240.0	31.0	84.4	0.125	0.161	1520	1020
HVA3C300AL	300.0	31.0	90.7	0.100	0.130	1640	1090

Fixed Wiring Cables

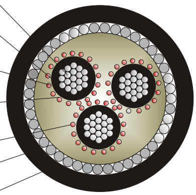
12.7/22KV
XLPE Copper 3 Core Wire Screened
Steel Wire Armoured
And PVC Sheathed Cable
To AS/NZS 1429.1



Copper Conductor High Fault Level

Part No	Power Core MM²	Screen MM²	Nom Overall Dia	Resistance DC @ 20C (Ohm/km)	Resistance DC @ 90C (Ohm/km)	Bending Radius Min During Installation	Bending Radius Min Set
HVA3C035SWA	35.0	12.0	65.3	0.524	0.668	1180	790
HVA3C050SWA	50.0	16.0	69.3	0.387	0.494	1250	840
HVA3C070SWA	70.0	23.0	73.5	0.268	0.342	1330	890
HVA3C095SWA	95.0	31.0	78.7	0.193	0.247	1420	950
HVA3C120SWA	120.0	31.0	82.1	0.153	0.196	1480	990
HVA3C150SWA	150.0	31.0	86.4	0.124	0.159	1560	1040
HVA3C185SWA	185.0	31.0	90.6	0.0991	0.128	1640	1090

12.7/22KV
XLPE Copper 3 Core Wire Screened
Steel Wire Armoured
And PVC Sheathed Cable
To AS/NZS 1429.1



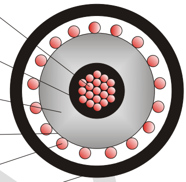
Aluminium Conductor High Fault Level

Part No	Power Core MM²	Screen MM²	Nom Overall Dia	Resistance DC @ 20C (Ohm/km)	Resistance DC @ 90C (Ohm/km)	Bending Radius Min During Installation	Bending Radius Min Set
HVA3C035ALSWA	35.0	9.0	65.3	0.868	1.11	1180	790
HVA3C050ALSWA	50.0	11.0	67.9	0.641	0.822	1230	820
HVA3C070ALSWA	70.0	15.0	72.0	0.443	0.568	1300	870
HVA3C095ALSWA	95.0	21.0	78.7	0.320	0.411	1420	950
HVA3C120ALSWA	120.0	23.0	82.3	0.253	0.325	1490	990
HVA3C150ALSWA	150.0	26.0	86.4	0.206	0.265	1560	1040
HVA3C185ALSWA	185.0	31.0	90.2	0.164	0.211	1630	1090

Noremak
Total Cable Solutions

Fixed Wiring Cables

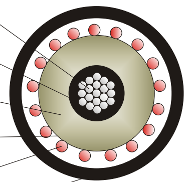
19/33 KV
XLPE Copper Wire Screened And PVC Sheathed Cable To AS/NZS 1429.1



Copper Conductor High Fault Level

Part No	Power Core MM^2	Screen MM^2	Nom Overall Dia	Resistance DC @ 20C (Ohm/km)	Resistance DC @ 90C (Ohm/km)	Bending Radius Min During Installation	Bending Radius Min Set
HVB1C050	50.0	50.0	35.5	0.387	0.494	640	430
HVB1C070	70.0	70.0	38.7	0.268	0.342	700	470
HVB1C095	95.0	91.0	40.4	0.193	0.247	730	490
HVB1C120	120.0	91.0	42.0	0.153	0.196	760	510
HVB1C150	150.0	91.0	43.4	0.124	0.159	790	530
HVB1C185	185.0	91.0	45.4	0.0991	0.128	820	550
HVB1C240	240.0	91.0	47.6	0.0754	0.0977	860	580
HVB1C300	300.0	91.0	50.9	0.0601	0.0788	920	620
HVB1C400	400.0	91.0	54.3	0.0470	0.0627	980	660
HVB1C500	500.0	91.0	57.6	0.0366	0.0503	1040	700

19/33KV
XLPE Aluminium Copper Wire Screened And PVC Sheathed Cable To AS/NZS 1429.1



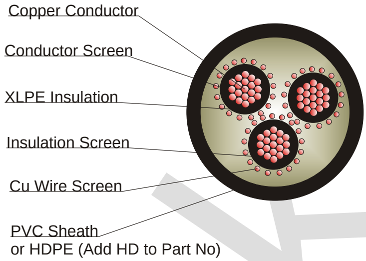
Aluminium Conductor High Fault Level

Part No	Power Core MM^2	Screen MM^2	Nom Overall Dia	Resistance DC @ 20C (Ohm/km)	Resistance DC @ 90C (Ohm/km)	Bending Radius Min During Installation	Bending Radius Min Set
HVB1C050AL	50.0	32.0	32	0.641	0.822	640	430
HVB1C070AL	70.0	46.0	46	0.443	0.568	700	470
HVB1C095AL	95.0	63.0	63	0.320	0.411	730	490
HVB1C120AL	120.0	79.0	79	0.253	0.325	760	510
HVB1C150AL	150.0	91.0	91	0.206	0.265	790	530
HVB1C185AL	185.0	91.0	91	0.164	0.211	820	550
HVB1C240AL	240.0	91.0	91	0.125	0.161	860	580
HVB1C300AL	300.0	91.0	91	0.100	0.130	920	620
HVB1C400AL	400.0	91.0	91	0.0778	0.101	980	660
HVB1C500AL	500.0	91.0	91	0.0605	0.0799	1040	700

Fixed Wiring Cables

Noremak
Total Cable Solutions

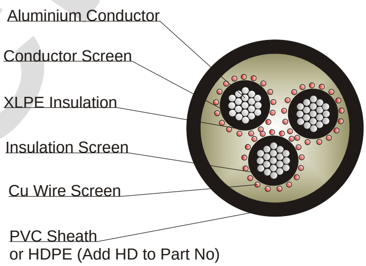
19/33KV
XLPE Copper 3 Core Copper Wire Screened And PVC Sheathed Cable To AS/NZS 1429.1



Copper Conductor High Fault Level

Part No	Power Core MM^2	Screen MM^2	Nom Overall Dia	Resistance DC @ 20C (Ohm/km)	Resistance DC @ 90C (Ohm/km)	Bending Radius Min: During Installation	Bending Radius Min: Set
HVB3C050	50.0	16.0	71.1	0.387	0.494	1090	730
HVB3C070	70.0	23.0	77.0	0.268	0.342	1160	770
HVB3C095	95.0	31.0	80.9	0.193	0.247	1230	820
HVB3C120	120.0	31.0	84.1	0.153	0.196	1290	860
HVB3C150	150.0	31.0	87.4	0.124	0.159	1360	910
HVB3C185	185.0	31.0	91.4	0.0991	0.128	1430	960
HVB3C240	240.0	31.0	96.5	0.0754	0.0981	1520	1020
HVB3C300	300.0	31.0	103.6	0.0601	0.0792	1640	1090

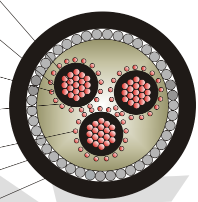
19/33KV
XLPE Aluminium 3 Core Copper Wire Screened And PVC Sheathed Cable To AS/NZS 1429.1



Aluminium Conductor High Fault Level

Part No	Power Core MM^2	Screen MM^2	Nom Overall Dia	Resistance DC @ 20C (Ohm/km)	Resistance DC @ 90C (Ohm/km)	Bending Radius Min: During Installation	Bending Radius Min: Set
HVB3C050AL	50.0	11.0	71.1	0.641	0.822	1280	860
HVB3C070AL	70.0	15.0	77.0	0.443	0.568	1390	930
HVB3C095AL	95.0	21.0	80.9	0.320	0.411	1460	980
HVB3C120AL	120.0	23.0	84.1	0.253	0.325	1520	1010
HVB3C150AL	150.0	26.0	87.4	0.206	0.265	1580	1050
HVB3C185AL	185.0	31.0	91.4	0.164	0.211	1650	1100
HVB3C240AL	240.0	31.0	86.5	0.125	0.161	1740	1160
HVB3C300AL	300.0	31.0	103.6	0.100	0.130	1870	1250

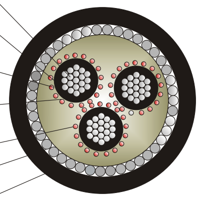
19/33KV
XLPE Copper 3 Core Wire Screened Steel Wire Armoured And PVC Sheathed Cable To AS/NZS 1429.1



Copper Conductor High Fault Level

Part No	Power Core MM^2	Screen MM^2	Nom Overall Dia	Resistance DC @ 20C	Resistance DC @ 90C	Bending Radius Min	
				Ohm/km		During Installation	Set
HVB1C050SWA	50.0	16	81.9	0.387	0.494	1480	990
HVB1C070SWA	70.0	23	88.2	0.268	0.342	1590	1060

19/33KV
XLPE Aluminium 3 Core Wire Screened Steel Wire Armoured And PVC Sheathed Cable To AS/NZS 1429.1

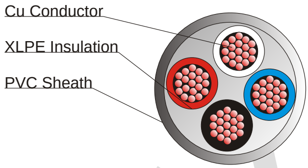


Aluminium Conductor High Fault Level

Part No	Power Core MM^2	Screen MM^2	Nom Overall Dia	Resistance DC @ 20C	Resistance DC @ 90C	Bending Radius Min	
				Ohm/km		During Installation	Set
HVB1C050ALSWA	50.0	11	81.9	0.641	0.822	1480	990
HVB1C070ALSWA	70.0	15	86.8	0.443	0.568	1570	1050

0.6/1kV Four Core Mains
XLPE Insulated PVC Sheathed Cable To AS/NZS 5000.1

For Mains, submains and subcircuits unenclosed, in conduit, buried direct or in underground ducts for buildings and industrial plants. Ideal for out of balance circuits may require same size neutral to the actives.

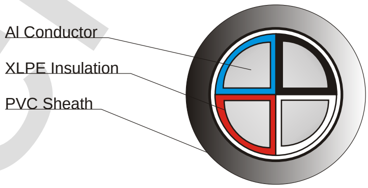


Copper Conductor

Part No	Power Core MM²	Stranding	Nom Overall Dia	Resistance @ 20C	Test Voltage 5 Min
FCM71704C	16.0	7/1.70	5.10	1.150	3.5
FCM191354C	25.0	19/1.35	6.75	0.200	3.5
FCM191534C	35.0	19/1.53	7.65	0.868	3.5
FCM191784C	50.0	19/1.78	8.90	0.641	3.5
				Ohm/mm	Meg/Ohm-km

0.6/1kV Four Core Mains
XLPE Insulated PVC Sheathed Cable To AS/NZS 5000.1

For Mains, submains and subcircuits unenclosed, in conduit, buried direct or in underground ducts for buildings and industrial plants. Suitable where space is at a premium and or where conditions of overload may occur

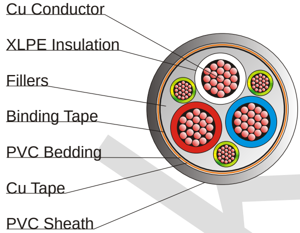


Copper Conductor

Part No	Power Core MM²	Stranding	Nom Overall Dia Stranded	Nom Overall Dia Solid	Resistance @ 20C	Test Voltage 5 Min	Weight kg/100m
SS372524C	185	Stranded Sector Shaped	47.5	43.0	0.164	3.5	302
SS612254C	240		53.4	49.3	0.125	3.5	386
					Ohm/mm	Meg/Ohm-km	

0.6/1kV Variable Speed Drive Cables
Three Core + 3 Earths XLPE X90

For Use in variable speed drive units and motors
in a fixed wiring applications
For Flexing See Page A11

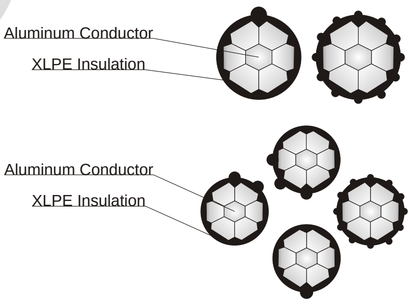


Copper Conductor

Part No	Power Cores MM^2	Earth Core MM^2	Power Stranding	Earth Stranding	Nom Overall Dia	Sheath Thickness	Weight kg/100m
VSD3C3E025	2.50	2.5	7/0.67	7/0.67	14.5	1.8	28.0
VSD3C3E040	4.00	2.5	7/0.85	7/0.67	15.6	1.8	34.0
VSD3C3E060	6.00	2.5	7/1.04	7/0.67	17.0	1.8	40.5
VSD3C3E010	10.0	2.5	7/1.35	7/0.67	17.9	1.8	53.0
VDS3C3E016	16.0	2.5	7/1.70	7/0.67	20.3	1.8	75.0
VSD3C3E25	25.0	4.0	19/1.35	7/0.85	24.1	1.8	108.5
VSD3C3E35	35.0	6.0	19/1.53	7/1.04	25.3	1.8	139.0
VSD3C3E50	50.0	10.0	19/1.78	7/1.35	28.2	1.8	180.0
VSD3C3E70	70.0	10.0	19/2.14	7/1.35	32.5	1.8	251.5
VSD3C3E95	95.0	16.0	37/1.78	7/1.70	36.6	1.8	336.5
VSD3C3E120	120.0	16.0	37/2.03	7/1.70	40.6	1.8	420.5
VSD3C3E150	150.0	25.0	37/2.25	19/1.35	45.0	1.8	518.5
VSD3C3E185	185.0	25.0	37/2.52	19/1.35	51.9	1.8	654.0
VSD3C3E240	240.0	35.0	61/2.25	19/1.53	56.2	1.8	842.5
VSD3C3E300	300.0	50.0	61/2.52	19/1.78	67.7	1.8	1012.0

0.6/1kV
2 And 4 Core
Aerial Bundle Cable
XLPE X90

For Use in aerial reticulation to residential and rural areas
where reliability, safety and low installation costs are required
Reduction in bush fires and frequent tree lopping in
un cleared areas



Copper Conductor

Part No	Power Cores MM^2	Power Stranding	Nom Overall Dia	Sheath Thickness	Weight kg/100m
ABC252C	25.0	19/1.35	18.4	1.3	20
ABC352C	35.0	19/1.53	20.6	1.3	26
ABC502C	50.0	19/1.78	23.8	1.3	35
ABC952C	95.0	37/1.78	31.8	1.7	68
ABC254C	25.0	19/1.35	22.2	1.3	40
ABC354C	35.0	19/1.53	24.9	1.3	52
ABC504C	50.0	19/1.78	28.7	1.5	70
ABC704C	70.0	19/2.14	32.8	1.5	96
ABC954C	95.0	37/1.78	38.4	1.7	135
ABC1204C	120.0	37/2.03	42.2	1.7	166
ABC1504C	150.0	37/2.25	45.6	1.7	202

Noremak Total Cable Solutions

Automotive Cables

100V DC or 32V AC
These Cables should not be connected to Mains Power

General Purpose Cables for Automotive

Single Core, Double Insulated- Twin Sheath

Single Core Cables

Part No	Stranding	Nom OD	Area mm^2	Insul Thickness	Sheath Thickness	Pack Length Mtr
AC21CDI-*	9/0.30	3.20	20.64	0.5	0.6	30, 100, 500, BULK
AC31CDI-*	16/0.30	3.60	1.13	0.6	0.6	30, 100, 500, BULK
AC41CDI-*	26/0.30	4.10	1.85	0.6	0.6	30, 100, 500, BULK
AC51CDI-*	41/0.32	5.10	3.25	0.7	0.6	30, 100, 500, BULK
AC61CDI-*	37/0.40	5.80	4.65	0.8	0.8	30, 100, 500, BULK

*Add Pack Length To Part No

Colour Coding Available

	Core Colour	Sheath Colour
Size 2, 3, 4, 5, 6	Red	Black

Loose Sheath

Two Core Cables

Part No	Stranding	Nom OD	Area mm^2	Insul Thickness	Sheath Thickness	Pack Length Mtr
AC22CLS8-*	9/0.30	5.6X3.2	0.64	0.6	0.6	30, 100, 500, BULK
AC32CLS-*	16/0.30	6.4X3.6	1.13	0.6	0.6	30, 100, 500, BULK
AC42CLS-*	26/0.30	7.2X4.1	1.85	0.6	0.6	30, 100, 500, BULK
AC52CLS-*	41/0.32	9.0X5.1	3.25	0.7	0.6	30, 100, 500, BULK
AC62CLS-*	37/0.40	9.8X5.6	4.65	0.8	0.7	30, 100, 500, BULK
AC2A2CLS-*	14/0.20	4.8X2.4	0.64	0.5	-	30, 100, 500, BULK

*Add Pack Length To Part No

Colour Coding Available

	Core Colour	Sheath Colour
Size 2, 3, 4, 5, 6	Red, Black	Black
353CA2840	Assorted Colours With Trace	

Standards: AS 2218

Noremak
Total Cable Solutions

Fixed Wiring Cables

100V DC or 32V AC
These Cables should not be connected to Mains Power

General Purpose Cables for Automotive Multi Core, Trailer Cable

Trailer Cables

Part No	Stranding X No Cores	Nom OD	Area mm^2	Insul Thickness	Sheath Thickness	Pack Length Mtr
AC25CTC-*	9/0.30 X 5	6.9	0.64	0.5	0.6	30, 100, 500, 1000
AC27CTC-*	9/0.30 X 7	7.6	0.64	0.5	0.6	30, 100, 500, 1000
AC33CTC-*	13/0.30 X 3	6.2	0.92	0.5	0.6	30, 100, 500
AC34CTC-*	13/0.30 X 4	7.0	0.92	0.5	0.6	30, 100, 500
AC35CTC-*	13/0.30 X 5	7.7	0.92	0.6	0.6	30, 100, 500, 1000
AC37CTC-*	13/0.30 X 7	8.5	0.92	0.6	0.6	30, 100, 500, 1000
AC45CTC-*	26/0.30 X 5	9.3	1.84	0.6	0.8	30, 100, 500
AC47CTC-*	26/0.30 X 7	10.5	1.84	0.6	0.8	30, 100, 500
AC55CTC-*	41/0.32 X 5	11.0	3.30	0.6	0.8	30, 100, 500
AC65CTC-*	37/0.40 X 5	13.6	4.65	0.6	0.8	30, 100, 500
AC67CTC-*	37/0.40 X 7	17.0	4.65	0.6	0.8	30, 100, 500

*Add Pack Length To Part No

Colour Coding

	Colour Coding	Sheath
3 Core	White (1) Yellow (2) Red (3)	Black
4 Core	White (1) Yellow (2) Red (3) Green (4)	Black
5 Core	White (1) Yellow (2) Red (3) Green (4) Brown (5)	Black
7 Core	White (1) Yellow (2) Red (3) Green (4) Brown (5) Blue (6) Black (7)	Black

Automotive Cables

100V DC or 32V AC
These Cables should not be connected to Mains Power

General Purpose Cables for Automotive applications. Low Voltage, high amperage wiring.

Single Core Cables

Part No	Stranding No/mm	Nom OD	Area mm^2	Insul Thickness	Pack Length Mtr
AC21C-*	9/0.30	2.20	0.64	0.5	30, 100, 500, BULK
AC31C-*	16/0.30	2.60	1.13	0.6	30, 100, 500, BULK
AC41C-*	26/0.30	3.10	1.85	0.6	30, 100, 500, BULK
AC51C-*	41/0.32	3.80	3.25	0.7	30, 100, 500, BULK
AC61C-*	37/0.40	4.40	4.65	0.8	30, 100, 500, BULK
AC31CIG-*	16/0.30	7.0	1.13	2.7	30, 100, 500, BULK

*353CA7 is a high tension cable used in ignition
Stripes available in size 3 and 4 in 100 and 500 mtr packs

Colour Coding Available

Size 2, 3, 4		Size 5, 6		Size 7
Black	Grey	Black	Yellow	Red
Blue	Yellow	Blue	Orange	Black
Brown	Orange	Brown		
Green	Purple	Green		
Red		Red		
White		White		
Pink		Grey		

Figure 8 Cables

Part No	Stranding No/mm	Nom OD	Area mm^2	Insul Thickness	Pack Length Mtr
AC32CF8-*	16/0.30x2	5.3x2.6	1.13	0.6	30, 100, 500, Bulk
AC42CF8-*	26/0.30x2	6.0x3.1	1.85	0.6	30, 100, 500, Bulk

Available in RED/BLACK, BLUE/WHITE, BROWN/WHITE, GREEN/BLACK

Automotive Cables

100V DC or 32V AC
These Cables should not be connected to
Mains Power

General Purpose Cables for Automotive
Battery Cables

Battery To Starter Motor

Part No	Stranding	Nom OD	Area mm^2	Insul Thickness	Core Colour	Pack Length Mtr
AC8BS	100/0.30	5.6	27.0	0.9	Black, Red	30, Bulk
AC6BS	218/0.30	7.8	15.0	1.1	Black, Red	30, Bulk
AC4BS	285/0.30	8.8	20.0	1.6	Black, Red	30, Bulk
AC3BS	325/0.30	10.2	23.0	1.6	Black, Red	30, Bulk
AC2BS	460/0.30	11.5	33.0	1.7	Black, Red	30, Bulk
AC1BS	323/0.40	12.5	41.0	1.7	Black, Red	30, Bulk
AC0BS	400/0.40	13.5	50.0	1.7	Black	30, Bulk
AC00BS	520/0.40	15.2	65.0	1.7	Black	30, Bulk
AC000BS	663/0.40	17.2	83.0	1.7	Black	30, Bulk
AC0000BS	798/0.40	18.4	100.0	2.0	Black	30, Bulk

Single And Multi Cores

Stranding	Continuous Duty Amps* Single Core	Continuous Duty Amps* Multi Core
9/0.30	3	2
13/0.30	8	5
16/0.30	10	6
26/0.30	15	10
41/0.32	25	15
37/0.40	40	18

Battery Cables

Stranding	Continuous Duty Amps** Battery Cable
100/0.30	45
218/0.30	70
325/0.30	100
460/0.30	120
323/0.40	130
400/0.40	150
520/0.40	180

Recommended Current Ratings

* Duty amps are nominal only. Derating factors to be applied where required
** Duty Amps are nominal only at 60% duty cycle over 5 Min. Derating factors to be applied where required.
Battery cable will carry 200% of its rated capacity

Guide Only Refer to Australian Standards 3008.1.1 for complete listings and variations

Technical Information

Current Carrying Capacities of 2x V-75 PVC Single Cores Conductors

AS3008.1.1 1998 Table 3

Conductor Size mm^2	Spaced	Spaced From Surface	Touching	Non Metalic Conduit
1.00	16	16	13	13
1.50	21	21	16	16
2.50	30	29	23	22
4.00	40	39	31	30
6.00	51	49	40	38
10.0	69	67	54	53
16.0	92	98	72	71
25.0	125	120	97	97
35.0	155	145	120	115
50.0	185	175	145	140
70.0	240	225	185	175
95.0	295	275	230	210
120.0	345	320	265	250
150.0	395	365	310	280

Current Carrying Capacities of 2x X-90 PVC Single Cores Conductors

AS3008.1.1 1998 Table 4

Conductor Size mm^2	Spaced		Spaced From Surface		Touching		Non Metalic Conduit	
	CU	AU	CU	AU	CU	AU	CU	AU
16.0	110	87	110	84	86	67	86	67
25.0	150	115	145	110	115	91	115	91
35.0	185	145	175	135	145	110	145	110
50.0	230	175	215	165	175	135	175	135
70.0	290	225	275	210	225	175	220	175
95.0	360	280	340	260	280	215	260	215
120.0	420	330	395	305	325	255	310	255
150.0	485	375	450	350	375	290	350	290
185.0	570	440	520	405	435	340	400	340
240.0	680	530	620	485	520	410	475	400
300.0	790	610	720	560	610	475	-	-
400.0	920	720	840	660	710	560	-	-
500.0	1080	850	970	770	820	660	-	-
630.0	1260	1000	1110	900	950	770	-	-

Guide Only Refer to Australian Standards 3008.1.1 for complete listings and variations

Guide Only Refer to Australian Standards 3008.1.1 for complete listings and variations

Technical Information

Current Carrying Capacities of 3x V-75 PVC Single Cores Conductors

AS3008.1.1 1998 Table 6

Conductor Size mm^2	Spaced	Spaced From Surface	Touching	Non Metalic Conduit
1.00	16	14	13	11
1.50	20	17	16	14
2.50	29	25	23	20
4.00	38	33	31	36
6.00	49	42	40	34
10.0	67	58	54	47
16.0	89	77	72	62
25.0	120	105	97	87
35.0	150	125	120	100
50.0	180	155	145	125
70.0	230	195	185	155
95.0	285	245	230	185
120.0	335	285	265	220
150.0	385	330	310	250

Current Carrying Capacities of 2x X-90 PVC Single Cores Conductors

AS3008.1.1 1998 Table 7

Conductor Size mm	Spaced		Spaced From Surface		Touching		Non Metalic Conduit	
	CU	AU	CU	AU	CU	AU	CU	AU
16.0	110	84	92	71	86	67	78	64
25.0	145	115	125	97	115	91	110	90
35.0	180	140	155	120	145	110	125	105
50.0	220	170	190	145	175	135	155	125
70.0	280	220	240	185	225	175	190	160
95.0	350	270	300	230	280	215	230	195
120.0	410	320	350	270	325	255	270	230
150.0	470	365	405	315	375	290	310	260
185.0	550	425	470	365	435	340	355	300
240.0	660	510	560	440	520	405	420	360
300.0	770	600	650	510	600	570	485	415
400.0	900	700	760	600	700	560	560	485
500.0	1050	830	870	700	810	650	650	560
630.0	1230	980	1010	820	940	770	760	660

Guide Only Refer to Australian Standards 3008.1.1 for complete listings and variations

Fixed Wiring Cables

Noremak Total Cable Solutions

Guide Only Refer to Australian Standards 3008.1.1 for complete listings and variations

Technical Information

HV Cables Short Circuit Ratings

Cable Type	Cable Size mm²										
	35	50	70	95	120	150	185	240	300	400	500
6.35/11kV Singles Cu											
Phase Conductor 1 Sec kA	5.0	7.2	10.0	13.6	17.2	21.5	26.5	34.3	42.9	57.2	71.5
Copper Wire Screen 1 Sec Ka	4.9	7.1	10.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
6.35/11kV Singles Au											
Phase Conductor 1 Sec kA	3.3	4.7	6.6	9.0	11.3	14.2	17.5	22.7	28.3	37.8	47.2
Copper Wire Screen 1 Sec Ka	3.3	44	6.4	8.8	10.0	13.5	13.5	13.5	13.5	13.5	13.5
6.35/11kV 3 Core Cu											
Phase Conductor 1 Sec kA	5.0	7.2	10.0	13.6	17.2	21.5	26.5	34.3	4.29	-	-
Copper Wire Screen 1 Sec Ka	5.1	7.2	10.3	13.5	13.5	13.5	13.5	13.5	13.5	-	-
6.35/11kV 3 Core Au											
Phase Conductor 1 Sec kA	3.3	4.7	6.6	9.0	11.3	14.2	17.5	22.7	28.3	-	-
Copper Wire Screen 1 Sec Ka	3.3	4.3	6.3	8.9	10.3	10.3	13.5	13.5	13.5	-	-
12.7/22kV Singles Cu											
Phase Conductor 1 Sec kA	5.0	7.2	10.0	13.6	17.2	21.5	26.5	34.3	42.9	57.2	71.5
Copper Wire Screen 1 Sec Ka	4.9	7.1	10.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
12.7/22kV Singles Au											
Phase Conductor 1 Sec kA	3.3	4.7	6.6	9.0	11.3	14.2	17.5	22.7	28.3	37.8	47.2
Copper Wire Screen 1 Sec Ka	3.3	4.4	6.4	8.8	10.0	13.5	13.5	13.5	13.5	13.5	13.5
12.7/22kV 3 Core Cu											
Phase Conductor 1 Sec kA	5.0	7.2	10.0	13.6	17.2	21.5	26.5	34.3	42.9	-	-
Copper Wire Screen 1 Sec Ka	5.1	7.2	10.3	13.5	13.5	13.5	13.5	13.5	13.5	-	-
12.7/22kV 3 Core Au											
Phase Conductor 1 Sec kA	-	4.7	6.6	9.0	11.3	14.2	17.5	22.7	28.3	-	-
Copper Wire Screen 1 Sec Ka	-	4.3	6.3	8.9	10.3	10.3	13.5	13.5	13.5	-	-
19/33kV Singles Cu											
Phase Conductor 1 Sec kA	-	7.2	10.0	13.6	17.2	21.5	26.5	34.3	42.9	57.2	71.5
Copper Wire Screen 1 Sec Ka	-	7.1	10.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
19/33kV Singles Au											
Phase Conductor 1 Sec kA	-	4.7	6.6	9.0	11.3	14.2	17.5	22.7	28.3	37.8	47.2
Copper Wire Screen 1 Sec Ka	-	4.4	6.8	8.8	10.0	13.5	13.5	13.5	13.5	13.5	13.5
19/33kV 3 Core Cu											
Phase Conductor 1 Sec kA	-	7.2	10.0	13.6	17.2	21.5	26.5	34.3	42.9	-	-
Copper Wire Screen 1 Sec Ka	-	7.1	10.3	13.5	13.5	13.5	13.5	13.5	13.5	-	-
19/33kV 3 Core Au											
Phase Conductor 1 Sec kA	-	4.7	6.6	9.0	11.3	14.2	17.5	22.7	28.3	-	-
Copper Wire Screen 1 Sec Ka	-	4.8	6.3	8.6	10.3	10.3	13.5	13.5	13.5	-	-

Derating Factors For Bunched Circuits

AS3008.1.1 1998 Table 22

No Of Circuits		Derating Factor												
		1	2	3	4	5	6	7	8	9	10	14	16	18
Bunched In Air		1.0	0.87	0.75	0.72	0.70	0.67	-	-	-	-	-	-	-
Bunched On Surface or Enclosed		1.0	0.80	0.70	0.65	0.60	0.57	0.54	0.52	0.50	0.48	0.43	0.41	0.39
Single Layer On Wall or Floor	Touching	1.0	0.85	0.79	0.75	0.73	0.72	0.72	0.71	0.70	0.70	0.70	0.70	0.70
	Spaced	1.0	0.94	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Single Layer Under Ceiling	Touching	0.95	0.81	0.72	0.68	0.66	0.64	0.63	0.62	0.61	0.61	0.61	0.61	0.61
	Spaced	0.95	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.95

Technical Information

a.c Resistance at 50 Hz of Single Core Cables

AS3008.1.1 1998 Table 34

Conductor Size mm^2	Conductor Temperature °C								
	Copper					Aluminium			
	45	60	75	90	110	45	60	75	90
1.00	23.3	24.5	25.8	27.0	28.7	-	-	-	-
1.50	14.9	15.7	16.5	17.3	18.4	-	-	-	-
2.50	8.14	8.57	9.01	9.45	10.0	-	-	-	-
4.00	5.06	5.33	5.61	5.88	6.24	-	-	-	-
6.00	3.38	3.56	3.75	3.93	4.17	-	-	-	-
10.0	2.01	2.12	2.23	2.33	2.48	-	-	-	-
16.0	1.26	1.33	1.40	1.47	1.56	2.10	2.22	2.33	2.45
25.0	0.799	0.842	0.884	0.927	0.984	1.32	1.39	1.47	1.54
35.0	0.576	0.607	0.638	0.668	0.710	0.956	1.01	1.06	1.11
50.0	0.426	0.448	0.471	0.494	0.524	0.706	0.745	0.783	0.822
70.0	0.295	0.311	0.327	0.342	0.363	0.488	0.515	0.452	0.568
95.0	0.213	0.225	0.236	0.247	0.262	0.353	0.372	0.392	0.411
120.0	0.170	0.179	0.188	0.197	0.208	0.279	0.295	0.310	0.325
150.0	0.138	0.145	0.153	0.160	0.169	0.228	0.240	0.253	0.265
185.0	0.111	0.117	0.123	0.129	0.136	0.182	0.192	0.202	0.212
240.0	0.0862	0.0905	0.0948	0.0991	0.105	0.140	0.147	0.155	0.162
300.0	0.0703	0.0736	0.0770	0.0803	0.0846	0.113	0.119	10125	0.130
400.0	0.0569	0.0595	0.0620	0.0646	0.0677	0.0890	0.0936	0.0981	0.103
500.0	0.0467	0.0487	0.0506	0.0525	0.0547	0.0709	0.0744	0.0779	0.0813
630.0	0.0389	0.0404	0.0418	0.0432	0.0448	0.0571	0.0597	0.0623	0.0649

Useful Calculations for Three Phase Power

$$\text{kVA} = \frac{\text{hp x 746}}{\text{1000 x Eff x pf}}$$

$$\text{kW} = \text{kVA x pf}$$

$$\text{kVA} = \frac{\text{Line Amps x Line Volts x 1.732}}{1000}$$

$$\text{kW} = \frac{\text{hp x 746}}{\text{1000 x Eff}}$$

$$\text{kW} = \frac{\text{Line Amps x Line Volts x 1.732}}{1000}$$

$$\text{Line Amps} = \frac{\text{kVA x 1000}}{\text{Line Volts x 1.732}}$$

$$\text{Line Amps} = \frac{\text{kW x 1000}}{\text{Line Volts x 1.732 x pf}}$$

$$\text{Horse Power} = \frac{\text{kW x 1000 x Eff}}{746}$$

$$\text{Line Amps} = \frac{\text{hp x 746}}{\text{Line Volts x 1.732 x Eff x pf}}$$

Useful Calculations for Voltage Drop

Please refer to Australian Standards for full conditions and notes for these calculations

$$V_c = \frac{1000V_d}{\text{L x I}}$$

$$V_d = \frac{\text{L x I x } V_c}{1000}$$

V_c= Millivolts per Ampere metre
V_d= Volt Drop in Volts
L= Route Length of Cable in Metres
I= Current to be carried in Amps

V_c= Millivolts per ampere metre
As shown in tables for
conductors AS3008.1.1 1998

V_d= Volt Drop in Volts
L= Route Length of Cable in Metres
I= Current to be carried in Amps