

# Neutral Screen Energy Cable 0.6/1 kV

0.6/1kV V-90 or XLPE X-90 Insulated, PVC Sheathed.

**Application:** Service entrance or consumer mains for underground residential distribution and unenclosed situations where the neutral/earth screen provides protection against the hazards of electric shock.

**Standard:** AS/NZS 4961

**Normal Operating Temp:** 90°C

**Conductor:** Plain Annealed Copper (AS/NZS 1125)

**Insulation:** V-90(NSV) or XLPE X-90(NSX)

**Core Color:** 1 Core: Red

2 Cores: Red, White

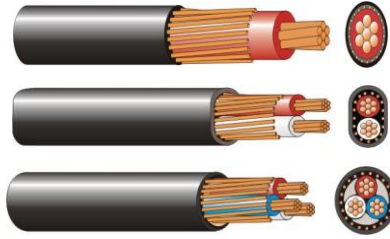
3 Cores: Red, White, Blue

**Screen:** Plain Annealed Copper

**Screen Coverage:** 1 Core :  $\geq 80\%$

2/3Cores:  $\geq 60\%$

**Sheath:** V-90 PVC Black (AS/NZS 3808)



Part No.	Core(s)	Conductor		Insulation Thickness (mm)	Padded Sheath (NSV DB & NSX DB)	
		Size(mm <sup>2</sup> )	No./mm		Sheath Thickness(mm)	Nom. O/D or Size $\pm 10\%$
NSV1025DB	1	2.5	7/0.67	0.8	3.2	11.1
NSV1040DB	1	4	7/0.85	1	3.2	12
NSV1060DB	1	6	7/1.04	1	3.2	12.6
NSV1100DB	1	10	7/1.35	1	3.2	14.2
NSV1160DB	1	16	7/1.70	1	3.2	15.6
NSV1250DB	1	25	19/1.30	1.2	3.2	18.1
NSX1025DB	1	2.5	7/0.67	0.7	3.2	10.9
NSX1040DB	1	4	7/0.85	0.7	3.2	11.4
NSX1060DB	1	6	7/1.04	0.7	3.2	12
NSX1100DB	1	10	7/1.35	0.7	3.2	13.6
NSX1160DB	1	16	7/1.70	0.7	3.2	15
NSV2025PDB	2	2.5	7/0.67	0.8	3.2	11.2×14.8
NSV2040PDB	2	4	7/0.85	1	3.2	12.1×16.7
NSV2060PDB	2	6	7/1.04	1	3.2	12.7×17.8
NSV2100PDB	2	10	7/1.35	1	3.2	13.9×20
NSV2160PDB	2	16	7/1.70	1	3.2	15.3×22.4
NSX2025PDB	2	2.5	7/0.67	0.7	3.2	11×14.4
NSX2040PDB	2	4	7/0.85	0.7	3.2	11.5×15.5
NSX2060PDB	2	6	7/1.04	0.7	3.2	12.1×16.6
NSX2100PDB	2	10	7/1.35	0.7	3.2	13.4×18.8
NSX2160PDB	2	16	7/1.70	0.7	3.2	14.8×21.3
NSV3025DB	3	2.5	7/0.67	0.8	3.2	15.5
NSV3040DB	3	4	7/0.85	1	3.2	17.5
NSV3060DB	3	6	7/1.04	1	3.2	18.7
NSV3100DB	3	10	7/1.35	1	3.2	20.7
NSV3160DB	3	16	7/1.70	1	3.2	23.1
NSV3250DB	3	25	19/1.30	1.2	3.2	27.4
NSV3350DB	3	35	19 Strands	1.2	3.2	30.4
NSX3025DB	3	2.5	7/0.67	0.7	3.2	15.1
NSX3040DB	3	4	7/0.85	0.7	3.2	16.2
NSX3060DB	3	6	7/1.04	0.7	3.2	17.4
NSX3100DB	3	10	7/1.35	0.7	3.2	19.4
NSX3160DB	3	16	7/1.70	0.7	3.2	22
NSX3250DB	3	25	19/1.30	0.7	3.2	26.3
NSX3350DB	3	35	19 Strands	0.7	3.2	29.1

## Current Rating & Electrical Characteristics

Conductor Nominal Area (mm <sup>2</sup> )	PVC Insulation Cable Current Rating AMP (a)									Electrical Characteristics Maximum DC Resistance @ 20°C @ /Km
	In Air Touching Surface			Buried in Ducts			Buried Direct			
	1 Core	2 Cores	3 Cores	1 Core	2 Cores	3 Cores	1 Core	2 Cores	3 Cores	
2.5	30	25	23	34	29	27	44	37	34	7.41
4	39	32	32	44	36	36	57	47	46	4.61
6	50	41	39	56	46	44	72	59	57	3.08
10	69	57	55	76	62	60	97	79	77	1.83
16	90	76	74	96	80	78	125	104	101	1.15
25	120	98	96	125	100	98	165	115	113	0.727
35	145	123	120	148	125	122	201	138	136	0.524

Conductor Nominal Area (mm <sup>2</sup> )	XLPE Insulation Cable Current Rating AMP (a)									Electrical Characteristics Maximum DC Resistance @ 20°C @ /Km
	In Air Touching Surface			Buried in Ducts			Buried Direct			
	1 Core	2 Cores	3 Cores	1 Core	2 Cores	3 Cores	1 Core	2 Cores	3 Cores	
2.5	39	35	33	41	37	35	59	44	43	7.41
4	56	42	40	59	45	42	77	54	52	4.61
6	74	53	51	78	56	54	97	67	65	3.08
10	97	72	70	102	76	74	130	92	90	1.83
16	125	93	90	129	98	95	170	120	117	1.15
25	143	121	121	139	118	118	181	154	154	0.727
35	176	148	148	171	144	144	219	181	181	0.524

(a) \*Based on 40°C ambient air temperature and where applicable, burial depth of 0.5m, soil temperature of 25°C and soil resistivity of 1.2°C m/w.

\*The above information is from the following sources: AS/NZS 3008.1.1 and AS/NZS 1125

\*For current rating using other installation conditions refer to AS/NZS3008.1.1

\*Do not install in direct contact with polystyrene or polyurethane insulation materials