

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 : ≥ 80%

2/3Cores: ≥ 60%

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

Part No.	Core(s)	Conductor		Insulation Thickness (mm)	Wire Number ±3	Diameter ±0.06 mm	Padded Sheath	
		Size(mm²)	No./mm				Nominal Thickness(mm)	Nom. O/D or Size ±10%
NSV1025DB	1	2.5	7/0.67	0.8	22	0.50	3.2	11.1
NSV1040DB	1	4	7/0.85	1.0	27	0.50	3.2	12.0
NSV1060DB	1	6	7/1.04	1.0	30	0.50	3.2	12.6
NSV1100DB	1	10	7/1.35	1.0	22	0.85	3.2	14.2
NSV1160DB	1	16	7/1.70	1.0	22	1.04	3.2	15.6
NSV1250DB	1	25	19/1.30	1.2	24	1.15	3.2	18.1
NSX1025DB	1	2.5	7/0.67	0.7	17	0.67	3.2	10.9
NSX1040DB	1	4	7/0.85	0.7	15	0.84	3.2	11.4
NSX1060DB	1	6	7/1.04	0.7	17	0.84	3.2	12.0
NSX1100DB	1	10	7/1.35	0.7	17	1.04	3.2	13.6
NSX1160DB	1	16	7/1.70	0.7	19	1.04	3.2	15.0
NSV2025PDB	2	2.5	7/0.67	0.8	25	0.50	3.2	11.2×14.8
NSV2040PDB	2	4	7/0.85	1.0	31	0.50	3.2	12.1×16.7
NSV2060PDB	2	6	7/1.04	1.0	35	0.50	3.2	12.7×17.8
NSV2100PDB	2	10	7/1.35	1.0	31	0.67	3.2	13.9×20
NSV2160PDB	2	16	7/1.70	1.0	29	0.84	3.2	15.3×22.4
NSX2025PDB	2	2.5	7/0.67	0.7	24	0.50	3.2	11×14.4
NSX2040PDB	2	4	7/0.85	0.7	27	0.50	3.2	11.5×15.5
NSX2060PDB	2	6	7/1.04	0.7	31	0.50	3.2	12.1×16.6
NSX2100PDB	2	10	7/1.35	0.7	28	0.67	3.2	13.4×18.8
NSX2160PDB	2	16	7/1.70	0.7	28	0.85	3.2	14.8×21.3
NSV3025DB	3	2.5	7/0.67	0.8	34	0.50	3.2	15.5
NSV3040DB	3	4	7/0.85	1.0	42	0.50	3.2	17.5
NSV3060DB	3	6	7/1.04	1.0	47	0.50	3.2	18.7
NSV3100DB	3	10	7/1.35	1.0	54	0.50	3.2	20.7
NSV3160DB	3	16	7/1.70	1.0	49	0.67	3.2	23.1
NSV3250DB	3	25	19/1.30	1.2	47	0.85	3.2	27.4
NSV3350DB	3	35	19 Strands	1.2	44	1.04	3.2	30.4
NSX3025DB	3	2.5	7/0.67	0.7	32	0.50	3.2	15.1
NSX3040DB	3	4	7/0.85	0.7	37	0.50	3.2	16.2
NSX3060DB	3	6	7/1.04	0.7	42	0.50	3.2	17.4
NSX3100DB	3	10	7/1.35	0.7	50	0.50	3.2	19.4
NSX3160DB	3	16	7/1.70	0.7	45	0.67	3.2	22.0
NSX3250DB	3	25	19/1.30	0.7	46	0.84	3.2	26.3
NSX3350DB	3	35	19 Strands	0.7	42	1.04	3.2	29.1
NSX4025DB	4	2.5	7/0.67	0.7	36	0.50	3.2	16.0
NSX4040DB	4	4	7/0.85	0.7	41	0.50	3.2	17.0
NSX4060DB	4	6	7/1.04	0.7	47	0.50	3.2	18.0
NSX4100DB	4	10	7/1.35	0.7	42	0.67	3.2	21.1
NSX4160DB	4	16	7/1.70	0.7	40	0.85	3.2	24.0
NSX4250DB	4	25	19/1.30	0.7	41	1.04	3.2	29.0
NSX4350DB	4	35	19 Strands	0.7	47	1.04	3.2	32.0



Current Rating & Electrical Characteristics

Conducting & Electrical Characteristics													
Conductor Nominal Area (mm ²)	PVC												Electrical Characteristics Maximum DC Resistance @ 20°C @/Km
	In Air Touching Surface				Buried in Ducts				Buried Direct				
	1 Core	2 Cores	3 Cores	4 Core	1 Core	2 Cores	3 Cores	4 Core	1 Core	2 Cores	3 Cores	4 Core	
2.5	30	25	23	22	34	29	27	26	44	37	34	32	7.41
4	39	32	32	30	44	36	36	34	57	47	46	44	4.61
6	50	41	39	37	56	46	44	42	72	59	57	54	3.08
10	69	57	55	52	76	62	60	57	97	79	77	73	1.83
16	90	76	74	70	96	80	78	74	125	104	101	96	1.15
25	120	98	96	91	125	100	98	93	165	115	113	107	0.727
35	145	123	120	114	148	125	122	116	201	138	136	129	0.524
Conductor Nominal Area (mm ²)	XLPE												Electrical Characteristics Maximum DC Resistance @ 20°C @/Km
	In Air Touching Surface				Buried in Ducts				Buried Direct				
	1 Core	2 Cores	3 Cores	4 Core	1 Core	2 Cores	3 Cores	4 Core	1 Core	2 Cores	3 Cores	4 Core	
2.5	39	35	33	31	41	37	35	33	59	44	43	41	7.41
4	56	42	40	38	59	45	42	40	77	54	52	49	4.61
6	74	53	51	48	78	56	54	51	97	67	65	62	3.08
10	97	72	70	67	102	76	74	70	130	92	90	86	1.83
16	125	93	90	86	129	98	95	90	170	120	117	111	1.15
25	143	121	121	115	139	118	118	112	181	154	154	146	0.727
35	176	148	148	141	171	144	144	137	219	181	181	172	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