

AS/NZS 3599.2 HV ABC Cable Description

11kV 22kV 3C XLPE insulated non metallic screened aerial bundled cables with aluminium alloy support conductor to AS/NZS 3599.2 Also available with HDPE Sheath

11kV 22kV 3C XLPE insulated cu.wire screened aerial bundled cables with with galvanised steel catenary to AS/NZS 3599.2

11kV 22kV XLPE Non Metallic Screened Aerial Cable Physical Data

XLPE insulated non-metallic screened aerial bundled cables to AS/NZS 3599.2 Aluminium conductors, aluminium alloy 1120 support conductor.

Nominal conductor area mm ²	Nominal conductor diameter mm	Average insulation thickness mm	Nominal diameter over insulation mm	Average insulation screen thickness mm	Nominal diameter over core mm	AAAC/1 1 20 support conductor		Nominal overall diameter mm	Approx mass kg/km
						Size no/mm	Diameter mm		
6.35/11kV									
35	6.9	3.4	14.9	1	17.1	7/4.75	14.3	48.4	1170
50	8.1	3.4	16	1	18.2	7/4.75	14.3	50.7	1320
70	9.6	3.4	17.6	1	19.8	7/4.75	14.3	53.9	1560
95	11.4	3.4	19.3	1	21.5	7/4.75	14.3	57.3	1860
120	12.8	3.4	20.7	1	22.9	19/3.50	17.5	63.3	2280
150	14.2	3.4	22.1	1	24.3	19/3.50	17.5	66.2	2570
185	15.7	3.4	23.6	1	25.8	19/3.50	17.5	69.2	2890
12.7/22kV									
35	6.9	5.5	19.2	1	21.4	7/4.75	14.3	57.1	1540
50	8.1	5.5	20.3	1	22.5	7/4.75	14.3	59.3	1710
70	9.6	5.5	21.9	1	24.1	7/4.75	14.3	62.5	1990
95	11.4	5.5	23.6	1	25.8	7/4.75	14.3	66	2310
120	12.8	5.5	25	1	27.2	19/3.50	17.5	72	2760
150	14.2	5.5	26.4	1.1	28.8	19/3.50	17.5	75.2	3100
185	15.7	5.5	27.9	1.1	30.3	19/3.50	17.5	78.2	3460

AAAC/1120 Support Conductors

Stranding & nom. wire dia no/mm	Nominal overall diameter mm	Cross-sectional area mm ²	DC resistance at 20°C at 20°C	Minimum breaking load kN	Recommended tension		Modulus of elasticity Gpa	Coeff. of linear expansion 10 ⁻⁶ /°C
					Highest everyday kN	Max. working kN		
7/4.75	14.3	124	0.239	27.1	4.1	13.6	59	23
19/3.50	17.5	182.8	0.163	41.7	6.3	20.9	56	23

11kV 22kV XLPE Metallic Screened Aerial Cable

XLPE Insulated Metallic Screened 11kV

Part No.	Nominal conductor area mm ²	Nominal conductor diameter mm	Average insulation screen thickness mm	Copper wire screen stranding no/mm	Nominal diameter over screen mm	Average sheath thickness mm	Nominal diameter over sheath mm	Galvanised steel catenary stranding no/mm	Nominal overall diameter mm	Approx. mass kg/km
AERMV3X35SCN11kV	35	6.9	0.8	24/0.85	19.2	1.8	23.5	19/2/00	57.1	2060
AERMV3X50SCN11kV	50	8.1	0.8	24/0.85	20.4	1.8	24.7	19/2/00	59.3	2230
AERMV3X70SCN11kV	70	9.6	0.8	24/0.85	22.0	1.8	26.3	19/2/00	62.5	2500
AERMV3X95SCN11kV	95	11.4	0.8	24/0.85	23.7	1.8	28.0	19/2/00	66.0	2820
AERMV3X120SCN11kV	120	12.8	0.8	24/0.85	25.1	1.8	29.4	19/2/00	68.8	3100
AERMV3X150SCN11kV	150	14.2	0.8	24/0.85	26.5	1.9	31.0	19/2/00	72.0	3440

AERMV3X185SCN11kV	185	15.7	0.8	24/0.85	28.0	1.9	32.5	19/2/00	75.0	3800
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XLPE Insulated Metallic Screened 22kV

Part No.	Nominal conductor area mm ²	Nominal conductor diameter mm	Copper wire screen stranding no/mm	Nominal diameter over screen mm	Average sheath thickness mm	Nominal diameter over sheath mm	Galvanised steel catenary stranding size no/mm	Galvanised steel catenary stranding diameter mm	Nominal overall diameter mm	Approx. mass kg/km
AERMV3X35SCN22kV	35	6.9	24/0.85	23.5	1.8	27.8	19/2/00	10.0	65.7	2500
AERMV3X50SCN22kV	50	8.1	24/0.85	24.7	1.8	29.0	19/2/00	10.0	68.0	2690
AERMV3X70SCN22kV	70	9.6	24/0.85	26.3	1.9	30.8	19/2/00	10.0	71.6	3020
AERMV3X95SCN22kV	95	11.4	24/0.85	28.0	1.9	32.5	19/2/00	10.0	75.0	3370
AERMV3X120SCN22kV	120	12.8	24/0.85	29.4	2.0	34.1	19/2/00	10.0	78.2	3720
AERMV3X150SCN22kV	150	14.2	24/0.85	30.8	2.0	35.5	19/2/00	10.0	81.0	4060
AERMV3X185SCN22kV	185	15.7	24/0.85	32.3	2.1	37.2	19/2/00	10.0	84.4	4470