



SCREEN-FREE MEDIUM-VOLTAGE ABC

AS/NZS 3599 Part 1

7 orderable sizes

STANDARD AS/NZS 3599 Part 1	VOLTAGE CLASS 12.7/22 kV	CONDUCTOR 35 mm ² aluminium, 50 mm ² aluminium, 70 mm ² aluminium, 95 mm ² aluminium, 120 mm ² aluminium, 150 mm ² aluminium, 185 mm ² aluminium
INSULATION / JACKET Black HDPE outer sheath		

Construction

- 1 Conductor (per core) – Class 2 stranded aluminium conductor
- 2 Core insulation – XLPE insulation for MV aerial bundle · Wall XLPE insulation for MV aerial bundle mm

Size selection – all available cross-sections

Cable reference	Voltage class	Bundle layout	Phase conductor	Neutral / messenger	Insulation	Screen / support	Max DC resistance at 20 °C	Bundle OD guide	Weight guide
AS/NZS 3599 screen-free MV ABC 12.7/22 kV 3 phase screen-free bundle 35 mm ² 25 mm ² insulated aluminium neutral	12.7/22 kV	3 phase screen-free bundle	35 mm ² stranded aluminium phase conductor	25 mm ² insulated aluminium neutral	XLPE insulation for MV aerial bundle	No metallic screen aerial bundle construction	0.868 Ω/km	58 mm	2.86 kg/m
AS/NZS 3599 screen-free MV ABC 12.7/22 kV 3 phase screen-free bundle 50 mm ² 50 mm ² insulated aluminium neutral	12.7/22 kV	3 phase screen-free bundle	50 mm ² stranded aluminium phase conductor	50 mm ² insulated aluminium neutral	XLPE insulation for MV aerial bundle	No metallic screen aerial bundle construction	0.641 Ω/km	60 mm	3.15 kg/m
AS/NZS 3599 screen-free MV ABC 12.7/22 kV 3 phase screen-free bundle 70 mm ² 50 mm ² insulated aluminium neutral	12.7/22 kV	3 phase screen-free bundle	70 mm ² stranded aluminium phase conductor	50 mm ² insulated aluminium neutral	XLPE insulation for MV aerial bundle	No metallic screen aerial bundle construction	0.443 Ω/km	63 mm	3.42 kg/m
AS/NZS 3599 screen-free MV ABC 12.7/22 kV 3 phase screen-free bundle 95 mm ² 70 mm ² insulated aluminium neutral	12.7/22 kV	3 phase screen-free bundle	95 mm ² stranded aluminium phase conductor	70 mm ² insulated aluminium neutral	XLPE insulation for MV aerial bundle	No metallic screen aerial bundle construction	0.320 Ω/km	66 mm	3.82 kg/m
AS/NZS 3599 screen-free MV ABC 12.7/22 kV 3 phase screen-free bundle 120 mm ² 70 mm ² insulated	12.7/22 kV	3 phase screen-free bundle	120 mm ² stranded	70 mm ² insulated	XLPE insulation	No metallic screen	0.253 Ω/km	69 mm	4.15 kg/m

Cable reference	Voltage class	Bundle layout	Phase conductor	Neutral / messenger	Insulation	Screen / support	Max DC resistance at 20 °C	Bundle OD guide	Weight guide
kV 3 phase screen-free bundle 120 mm ² 70 mm ² insulated aluminium neutral		free bundle	aluminium phase conductor	aluminium neutral	for MV aerial bundle	aerial bundle construction			
AS/NZS 3599 screen-free MV ABC 12.7/22 kV 3 phase screen-free bundle 150 mm ² 70 mm ² insulated aluminium neutral	12.7/22 kV	3 phase screen-free bundle	150 mm ² stranded aluminium phase conductor	70 mm ² insulated aluminium neutral	XLPE insulation for MV aerial bundle	No metallic screen aerial bundle construction	0.206 Ω/km	71 mm	4.56 kg/m
AS/NZS 3599 screen-free MV ABC 12.7/22 kV 3 phase screen-free bundle 185 mm ² 70 mm ² insulated aluminium neutral	12.7/22 kV	3 phase screen-free bundle	185 mm ² stranded aluminium phase conductor	70 mm ² insulated aluminium neutral	XLPE insulation for MV aerial bundle	No metallic screen aerial bundle construction	0.164 Ω/km	74 mm	5.03 kg/m