

# MV Aerial Bundled Cable (ABC) - 12.7/22(24) kV AS/NZS 3

Overhead cable for aerial distribution and service connection

MV Aerial Bundled Cable (ABC) - 12.7/22(24) kV AS/NZS 3599.1 is prepared for preliminary product selection and quotation review. This product is used for overhead distribution routes where conductor arrangement, insulation, messenger or neutral support and installation environment determine cable selection.



## VOLTAGE

12.7/22kV, 24kV

## CONDUCTOR

Aluminum / reinforced conductor route, according to overhead cable standard

## TYPICAL USE

Aerial bundled cable systems

## STANDARDS

AS/NZS 3599

## DATA SCOPE

2 technical table(s) included for preliminary selection

## SELECTION NOTE

Confirm voltage, conductor, core arrangement, messenger/neutral and installation span.

**For quotation review, provide cable type, standard, size, quantity and project destination.**

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## Application & Selection Summary

### Typical applications

- Aerial bundled cable systems
- overhead service drops
- rural and urban distribution networks
- utility line upgrade projects.

### Selection logic

- Confirm voltage grade, conductor material, core arrangement, messenger/neutral requirement, installation span and applicable utility standard.

## Construction Overview

| Item          | Website-ready content                                                                                                 |
|---------------|-----------------------------------------------------------------------------------------------------------------------|
| Product route | Aluminum or copper conductor with insulation and optional messenger or bundled arrangement according to product type. |
| Voltage       | 12.7/22kV, 24kV                                                                                                       |
| Conductor     | Aluminum / reinforced conductor route, according to overhead cable standard                                           |
| Standards     | AS/NZS 3599                                                                                                           |
| Confirmation  | Final structure, dimensions and packing should follow selected standard, quotation review and order specification.    |

## Readable Data Index

| Data route                                                 | Size / rating range                                                                        | Construction | Diameter / OD | Resistance / weight / rating |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------|---------------|------------------------------|
| AS/NZS 3599.1 22kV MV ABC (3 Phases + Bare AAAC Alloy Mess | 3 x 35 mm <sup>2</sup> + 50 mm <sup>2</sup> - 3 x 150 mm <sup>2</sup> + 70 mm <sup>2</sup> | 27.5 - 36.0  | See table     | 1900 - 3800                  |
| AS/NZS 3599.1 22kV MV ABC (3 Phases + Bare GSW Messenger)  | 3 x 35 mm <sup>2</sup> + 50 mm <sup>2</sup> - 3 x 150 mm <sup>2</sup> + 70 mm <sup>2</sup> | 27.5 - 36.0  | See table     | 2200 - 4200                  |

Data boundary: these tables support website launch, quotation review and preliminary product selection. For project execution, final dimensions, electrical performance, packing and compliance documents should be confirmed against the selected project standard and order specification.

## AS/NZS 3599.1 22kV MV ABC (3 Phases + Bare AAAC Alloy Messenger)

Reference table for preliminary selection and quotation review.

| Size (Phase + Messenger)                                         | Insulation Thickness (mm) | Phase Core Dia. (mm) | Approx. Bundle OD (mm) | Approx. Weight (kg/km) | Min. Messenger Breaking Load (kN) |
|------------------------------------------------------------------|---------------------------|----------------------|------------------------|------------------------|-----------------------------------|
| AS/NZS 3599.1 22kV MV ABC (3 Phases + Bare AAAC Alloy Messenger) |                           |                      |                        |                        |                                   |
| 3 x 35 mm <sup>2</sup> + 50 mm <sup>2</sup>                      | 5.5                       | 27.5                 | 60.0                   | 1900                   | 14.2                              |
| 3 x 50 mm <sup>2</sup> + 50 mm <sup>2</sup>                      | 5.5                       | 29.0                 | 63.5                   | 2150                   | 14.2                              |
| 3 x 70 mm <sup>2</sup> + 50 mm <sup>2</sup>                      | 5.5                       | 30.8                 | 67.0                   | 2500                   | 14.2                              |
| 3 x 95 mm <sup>2</sup> + 70 mm <sup>2</sup>                      | 5.5                       | 32.7                 | 71.0                   | 2850                   | 19.8                              |
| 3 x 120 mm <sup>2</sup> + 70 mm <sup>2</sup>                     | 5.5                       | 34.5                 | 75.5                   | 3400                   | 19.8                              |
| 3 x 150 mm <sup>2</sup> + 70 mm <sup>2</sup>                     | 5.5                       | 36.0                 | 79.0                   | 3800                   | 19.8                              |

## AS/NZS 3599.1 22kV MV ABC (3 Phases + Bare GSW Messenger)

Reference table for preliminary selection and quotation review.

| Size (Phase + Messenger)                                  | Insulation Thickness (mm) | Phase Core Dia. (mm) | Approx. Bundle OD (mm) | Approx. Weight (kg/km) | Min. Messenger Breaking Load (kN) |
|-----------------------------------------------------------|---------------------------|----------------------|------------------------|------------------------|-----------------------------------|
| AS/NZS 3599.1 22kV MV ABC (3 Phases + Bare GSW Messenger) |                           |                      |                        |                        |                                   |
| 3 x 35 mm <sup>2</sup> + 50 mm <sup>2</sup>               | 5.5                       | 27.5                 | 60.0                   | 2200                   | 42.0                              |
| 3 x 50 mm <sup>2</sup> + 50 mm <sup>2</sup>               | 5.5                       | 29.0                 | 63.5                   | 2450                   | 42.0                              |
| 3 x 70 mm <sup>2</sup> + 50 mm <sup>2</sup>               | 5.5                       | 30.8                 | 67.0                   | 2800                   | 42.0                              |
| 3 x 95 mm <sup>2</sup> + 70 mm <sup>2</sup>               | 5.5                       | 32.7                 | 71.0                   | 3150                   | 58.0                              |
| 3 x 120 mm <sup>2</sup> + 70 mm <sup>2</sup>              | 5.5                       | 34.5                 | 75.5                   | 3800                   | 58.0                              |
| 3 x 150 mm <sup>2</sup> + 70 mm <sup>2</sup>              | 5.5                       | 36.0                 | 79.0                   | 4200                   | 58.0                              |