

## Railway Cables

### 2 Core and Multi Core Power Cables



#### Application:

Light signalling, track switching, axle counters, ETCS, ERTMS, boom gates. Specifically designed for Australian conditions in accordance with ESA-11.01

| Benefits                     |                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------|
| ARTC Approved                | Cable range approved for ARTC networks                                              |
| Suitable for Outdoors        | UV resistant sheath extends life in exposed environments                            |
| Easy to Install              | Class 2 stranding and cable fillers make for easy installation                      |
| Termite and Vermin Protected | UV stabilised polyamide 12 nylon jackets shields the cable from termites and vermin |
| Heavy Duty                   | Thick sacrificial sheath protects the cable during installation                     |
| Features                     |                                                                                     |
| ✓                            | Stranded circular conductors are suitable for fixed installations                   |
| ✓                            | UV resistant orange sheath                                                          |
| ✓                            | RoHS compliant to European environmental requirements                               |
| ✓                            | Metre marked                                                                        |
| Construction                 |                                                                                     |
| Conductor                    | Plain annealed copper wire, class 2                                                 |
| Insulation                   | V90 PVC                                                                             |
| Inner Sheath                 | 5V90 PVC                                                                            |
| Termite Barrier              | PA 12 Nylon                                                                         |
| Outer Sheath                 | 5V90 PVC                                                                            |
| Colours                      | 2 Core – Red, black<br>3 Core – Red, white, blue<br>> 3 Core – White numbered cores |
| Ratings                      |                                                                                     |
| Temperature                  | 0°C to + 90°C                                                                       |
| Voltage                      | 0.6/1kV                                                                             |
| Applicable Standards         | ESA-11-01, AS/NZS1125, AS/NZS3808, AS/NZS5000.1                                     |



Metre Marking



Copper



Minimum Service Temperature: 0°C



Maximum Service Temperature: 90°C



Maximum Short Circuit Temperature: 160°C



Impact Resistant



Abrasion Resistant



Chemical & Oil Resistant



Flame Non-Propagation



UV Resistant



Minimum Recommended Bend Radius Fixed 12 x OD

**SYDNEY (Head Office)**  
102 Old Pittwater Road  
Brookvale NSW 2100  
Phone: 02 9938 5622  
Fax: 02 9938 3973

**BRISBANE**  
2/284 Musgrave Road  
Coopers Plains QLD 4108  
Phone: 07 3277 5811  
Fax: 07 3274 0080

**MELBOURNE**  
9/24-26 Carrick Drive  
Tullamarine VIC 3043  
Phone: 03 9335 2600  
Fax: 03 9330 3903

**NEWCASTLE**  
64 Orlando Road  
Lambton NSW 2299  
Phone: 02 4956 2044  
Fax: 02 4956 1983

**WESTERN AUSTRALIA**  
1 Karratha St  
Welshpool WA 6106  
Phone: 08 9351 9966  
Fax: 08 9356 2522



## Railway Cables - 2 Core and Multi Core Power Cables

| Bambach Item Code | No. of Cores<br>x Conductor CSA mm <sup>2</sup> | Conductor Stranding<br>No. of Strands/mm | Nom Ø | Current Rating <sup>†</sup><br>Amps | Weight<br>kg/km |
|-------------------|-------------------------------------------------|------------------------------------------|-------|-------------------------------------|-----------------|
| 176700ES          | 2 x 4                                           | 7/0.85                                   | 18.5  | 39                                  | 409             |
| 176710ES          | 2 x 6                                           | 7/1.04                                   | 19.7  | 50                                  | 477             |
| 176720ES          | 2 x 10                                          | 7/1.35                                   | 21.5  | 66                                  | 604             |
| 176730ES          | 2 x 16                                          | 7/1.70                                   | 23.7  | 86                                  | 776             |
| 176740ES          | 2 x 25                                          | 19/1.35                                  | 27.8  | 112                                 | 1110            |
| 176750ES          | 3 x 4                                           | 7/0.85                                   | 19.3  | 33                                  | 478             |
| 176760ES          | 5 x 6                                           | 7/1.04                                   | 23.3  | 42                                  | 786             |
| 48224A            | 5 x 16                                          | 7/1.70                                   | 28.9  | 73                                  | 1450            |

<sup>†</sup>Current ratings based on AS/NZS3008.1.1:2009 Table 10 column 25 and Table 13 column 25

**SYDNEY (Head Office)**  
102 Old Pittwater Road  
Brookvale NSW 2100  
Phone: 02 9938 5622  
Fax: 02 9938 3973

**BRISBANE**  
2/284 Musgrave Road  
Coopers Plains QLD 4108  
Phone: 07 3277 5811  
Fax: 07 3274 0080

**MELBOURNE**  
9/24-26 Carrick Drive  
Tullamarine VIC 3043  
Phone: 03 9335 2600  
Fax: 03 9330 3903

**NEWCASTLE**  
64 Orlando Road  
Lambton NSW 2299  
Phone: 02 4956 2044  
Fax: 02 4956 1983

**WESTERN AUSTRALIA**  
1 Karratha St  
Welshpool WA 6106  
Phone: 08 9351 9966  
Fax: 08 9356 2522

