



### APPLICATION

For aerial power transmission and distribution.

### STEEL CORE :

Galvanized steel (Zinc coated), solid and concentric stranded stranded, size 2.5 - 85 mm<sup>2</sup>

### REFERENCE STANDARD :

TIS 85-2548

### CABLE STRUCTURE

CONDUCTOR : Concentric stranded hard drawn aluminium

Size 16 - 680 mm<sup>2</sup>

## Technical Data

| Nominal cross sectional area<br>mm <sup>2</sup> | ALUMINIUM              |                         |   | STEEL WIRE             |                         |   | Overall diameter (approx.)<br>mm | Maximum conductor resistance at 20°C<br>Ω/km | Breaking strength<br>kgf | Current rating in free air<br>A | Cable weight (approx.)<br>kg/km | Standard packing<br>m |
|---|------------------------|-------------------------|---|------------------------|-------------------------|---|----------------------------------|--|--------------------------|---------------------------------|---------------------------------|-----------------------|
|   | Number of wires<br>No. | Diameter of wires<br>mm | Cross sectional area<br>mm <sup>2</sup> | Number of wires<br>No. | Diameter of wires<br>mm | Cross sectional area<br>mm <sup>2</sup> |                                  |  |                          |                                 |                                 |                       |
| 16/2.5  | 6                      | 1.80                    | 15.3                                    | 1                      | 1.80                    | 2.54                                    | 5.40                             | 1.880  | 592                      | 90                              | 60                              | 4,000/D               |
| 25/4  | 6                      | 2.25                    | 23.9                                    | 1                      | 2.25                    | 3.98                                    | 6.75                             | 1.203  | 916                      | 125                             | 95                              | 4,000/D               |
| 35/6  | 6                      | 2.70                    | 34.4                                    | 1                      | 2.70                    | 5.73                                    | 8.10                             | 0.8353                                       | 1,265                    | 145                             | 140                             | 3,000/D               |
| 50/8  | 6                      | 3.20                    | 48.3                                    | 1                      | 3.20                    | 8.04                                    | 9.60                             | 0.5947                                       | 1,716                    | 170                             | 200                             | 3,000/D               |
| 50/30   | 12                     | 2.33                    | 51.2                                    | 7                      | 2.33                    | 29.85                                   | 11.50                            | 0.5644                                       | 4,380                    | 170                             | 380                             | 3,000/D               |
| 70/12   | 26                     | 1.85                    | 69.9                                    | 7                      | 1.44                    | 11.40                                   | 11.50                            | 0.4131                                       | 2,676                    | 290                             | 280                             | 3,000/D               |
| 95/15   | 26                     | 2.15                    | 94.4                                    | 7                      | 1.67                    | 15.33                                   | 13.50                            | 0.3058                                       | 3,565                    | 350                             | 380                             | 3,000/D               |
| 95/55   | 12                     | 3.20                    | 96.5                                    | 7                      | 3.20                    | 56.30                                   | 16.00                            | 0.2993                                       | 7,965                    | 350                             | 700                             | 3,000/D               |
| 120/20  | 26                     | 2.44                    | 121.6                                   | 7                      | 1.90                    | 19.85                                   | 15.50                            | 0.2375                                       | 4,555                    | 410                             | 490                             | 2,000/D               |
| 120/70  | 12                     | 3.60                    | 122.1                                   | 7                      | 3.60                    | 71.25                                   | 18.00                            | 0.2365                                       | 10,034                   | 410                             | 900                             | 2,000/D               |
| 125/30  | 30                     | 2.33                    | 127.9                                   | 7                      | 2.33                    | 29.85                                   | 16.00                            | 0.2259                                       | 5,759                    | 425                             | 600                             | 2,000/D               |
| 150/25  | 26                     | 2.70                    | 148.9                                   | 7                      | 2.10                    | 24.25                                   | 17.00                            | 0.1939                                       | 5,513                    | 470                             | 600                             | 2,000/D               |
| 170/40  | 30                     | 2.70                    | 171.8                                   | 7                      | 2.70                    | 40.08                                   | 18.50                            | 0.1683                                       | 7,675                    | 520                             | 800                             | 2,000/D               |
| 185/30  | 26                     | 3.00                    | 183.8                                   | 7                      | 2.33                    | 29.85                                   | 18.50                            | 0.1571                                       | 6,618                    | 535                             | 750                             | 2,000/D               |
| 210/35  | 26                     | 3.20                    | 209.1                                   | 7                      | 2.49                    | 34.09                                   | 20.00                            | 0.1381                                       | 7,489                    | 590                             | 850                             | 1,500/D               |
| 210/50  | 30                     | 3.00                    | 212.1                                   | 7                      | 3.00                    | 49.48                                   | 21.00                            | 0.1363                                       | 9,390                    | 610                             | 1,000                           | 1,500/D               |
| 230/10  | 24                     | 3.50                    | 230.9                                   | 7                      | 2.33                    | 29.85                                   | 21.00                            | 0.1250                                       | 7,313                    | 630                             | 900                             | 1,500/D               |
| 240/40  | 26                     | 3.45                    | 243.1                                   | 7                      | 2.68                    | 39.49                                   | 21.00                            | 0.1188                                       | 8,640                    | 645                             | 1,000                           | 1,500/D               |
| 265/35  | 24                     | 3.74                    | 263.7                                   | 7                      | 2.49                    | 34.10                                   | 22.00                            | 0.1095                                       | 8,307                    | 680                             | 1,000                           | 1,000/D               |
| 300/50  | 26                     | 3.86                    | 304.3                                   | 7                      | 3.00                    | 49.50                                   | 24.00                            | 0.0949                                       | 10,702                   | 740                             | 1,200                           | 1,000/D               |
| 305/40  | 54                     | 2.68                    | 304.6                                   | 7                      | 2.68                    | 39.50                                   | 24.00                            | 0.0949                                       | 9,942                    | 740                             | 1,200                           | 1,000/D               |
| 380/50  | 54                     | 3.00                    | 381.7                                   | 7                      | 3.00                    | 49.50                                   | 47.00                            | 0.0758                                       | 12,312                   | 840                             | 1,500                           | 1,000/D               |
| 435/55  | 54                     | 3.20                    | 434.3                                   | 7                      | 3.20                    | 56.30                                   | 28.00                            | 0.0666                                       | 13,673                   | 900                             | 1,700                           | 1,000/D               |
| 490/65  | 54                     | 3.40                    | 490.3                                   | 7                      | 3.40                    | 63.60                                   | 30.00                            | 0.0590                                       | 15,343                   | 960                             | 1,900                           | 1,000/D               |
| 550/70  | 54                     | 3.60                    | 549.7                                   | 7                      | 3.60                    | 71.30                                   | 32.00                            | 0.0526                                       | 17,096                   | 1,020                           | 2,100                           | 500/D                 |
| 680/85  | 54                     | 4.00                    | 678.6                                   | 19                     | 2.40                    | 86.00                                   | 36.00                            | 0.0426                                       | 12,040                   | 1,150                           | 2,600                           | 500/D                 |

Conductor Class : 2 Stranded  
D : Packing in drum

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