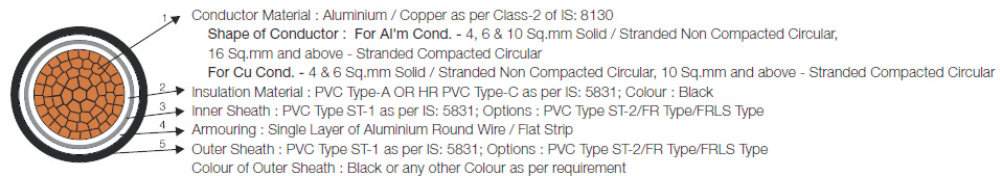


## 1 CORE ALUMINIUM PVC ARMoured & UNARMoured POWER CABLES

| No of cores & cross sectional area | Min No of Wires | ARMoured                          |                                   |                           |                                   |                           |                         | UNARMoured                    |                               |                           |                        | Max D.C Resistance at 20 | Max A.C Resistance at 70 | ARMoured                  |                    | UNARMoured                |                    | CURRENT RATING   |          |          |          |          |          |    |
|------------------------------------|-----------------|-----------------------------------|-----------------------------------|---------------------------|-----------------------------------|---------------------------|-------------------------|-------------------------------|-------------------------------|---------------------------|------------------------|--------------------------|--------------------------|---------------------------|--------------------|---------------------------|--------------------|------------------|----------|----------|----------|----------|----------|----|
|                                    |                 | Thickness of pvc insulation (Nom) | Nominal Dimensions of armour wire | Aluminium strip Thickness | Min Thickness of pvc outer sheath | overall diameter (approx) | Approx Net Wt. of cable | Thickness of insulation (nom) | Nom Thickness of outer sheath | Overall Diameter (Approx) | Approx Net Wt of cable |                          |                          | Approx Reactance at 50 Hz | Approx capacitance | Approx Reactance at 50 Hz | Approx Capacitance | Direct in Ground |          | In Duct  |          | In Air   |          |    |
|                                    |                 |                                   |                                   |                           |                                   |                           |                         |                               |                               |                           |                        |                          |                          |                           |                    |                           |                    | 2 Cables         | 3 Cables | 2 Cables | 3 Cables | 2 Cables | 3 Cables |    |
| (MM)                               | (MM)            | (MM)                              | (MM)                              | (MM)                      | (KG/KM)                           | (MM)                      | (MM)                    | (MM)                          | (KG/KM)                       | Ohm/Km                    | mFd/Km                 | Ohm/Km                   | mFd/Km                   | Amps                      | Amps               | Amps                      | Amps               | Amps             | Amps     |          |          |          |          |    |
| 1 CX4                              | -               | 1.3                               | 1.4                               | -                         | 1.24                              | 11.0                      | 155                     | 1.0                           | 1.8                           | 8.0                       | 75                     | 7.410                    | 8.89                     | 0.157                     | 0.48               | 0.140                     | 0.58               | 36               | 31       | 33       | 30       | 32       | 27       |    |
| 1 CX6                              | -               | 1.3                               | 1.4                               | -                         | 1.24                              | 12.0                      | 175                     | 1.0                           | 1.8                           | 9.0                       | 90                     | 4.610                    | 5.53                     | 0.148                     | 0.56               | 0.127                     | 0.68               | 44               | 39       | 42       | 42       | 37       | 41       | 35 |
| 1 CX 10                            | -               | 1.3                               | 1.4                               | -                         | 1.24                              | 13.0                      | 205                     | 1.0                           | 1.8                           | 10.0                      | 105                    | 3.080                    | 2.2                      | 0.138                     | 0.67               | 0.118                     | 0.83               | 50               | 51       | 56       | 51       | 56       | 47       |    |
| 1 CX 16                            | 6               | 1.3                               | 1.4                               | -                         | 1.24                              | 14.0                      | 230                     | 1.0                           | 1.8                           | 11.0                      | 140                    | 1.910                    | 2.3000                   | 0.1250                    | 0.81               | 0.11                      | 1.01               | 75               | 66       | 71       | 65       | 72       | 64       |    |
| 1 CX25                             | 6               | 1.5                               | 1.4                               | -                         | 1.24                              | 15.0                      | 300                     | 1.2                           | 1.8                           | 12.5                      | 195                    | 1.200                    | 1.4400                   | 0.1200                    | 0.83               | 0.105                     | 1.05               | 97               | 86       | 93       | 84       | 99       | 84       |    |
| 1 CX 35                            | 6               | 1.5                               | 1.4                               | -                         | 1.24                              | 16.0                      | 350                     | 1.2                           | 1.8                           | 13.5                      | 235                    | 0.868                    | 1.0400                   | 0.1140                    | 0.95               | 0.100                     | 1.22               | 97               | 100      | 110      | 100      | 120      | 105      |    |
| 1 CX 50                            | 6               | 1.7                               | 1.4                               | -                         | 1.24                              | 18.0                      | 430                     | 1.4                           | 1.8                           | 15.0                      | 305                    | 0.641                    | 0.7700                   | 0.1120                    | 0.95               | 0.098                     | 1.22               | 120              | 120      | 130      | 115      | 150      | 130      |    |
| 1 CX 70                            | 12              | 1.7                               | -                                 | 4 x0.80                   | 1.40                              | 20.0                      | 530                     | 1.4                           | 1.8                           | 17.0                      | 385                    | 0.443                    | 0.5330                   | 0.1040                    | 1.13               | 0.091                     | 1.43               | 145              | 140      | 155      | 135      | 185      | 155      |    |
| 1 CX 95                            | 15              | 1.9                               | -                                 | 4 x0.80                   | 1.40                              | 21.0                      | 610                     | 1.6                           | 1.8                           | 19.0                      | 515                    | 0.320                    | 0.3850                   | 0.0970                    | 1.17               | 0.088                     | 1.47               | 170              | 175      | 180      | 155      | 215      | 190      |    |
| 1 CX120                            | 15              | 1.9                               | -                                 | 4 x0.80                   | 1.40                              | 22.0                      | 710                     | 1.6                           | 2.0                           | 21.0                      | 610                    | 0.253                    | 0.3050                   | 0.0926                    | 1.32               | 0.086                     | 1.62               | 205              | 195      | 200      | 170      | 240      | 220      |    |
| 1 CX 150                           | 15              | 2.1                               | -                                 | 4 x0.80                   | 1.40                              | 24.0                      | 840                     | 1.8                           | 2.0                           | 22.5                      | 735                    | 0.206                    | 0.2480                   | 0.0916                    | 1.30               | 0.085                     | 1.62               | 230              | 220      | 220      | 190      | 270      | 250      |    |
| 1 CX 185                           | 30              | 2.3                               | -                                 | 4 x0.80                   | 1.40                              | 26.0                      | 1020                    | 2.0                           | 2.0                           | 25.0                      | 885                    | 0.164                    | 0.1980                   | 0.0895                    | 1.35               | 0.084                     | 1.62               | 265              | 240      | 240      | 210      | 305      | 290      |    |
| 1 CX240                            | 30              | 2.5                               | -                                 | 4 x0.80                   | 1.40                              | 29.0                      | 1250                    | 2.2                           | 2.0                           | 28.0                      | 1100                   | 0.125                    | 0.1520                   | 0.0876                    | 1.40               | 0.082                     | 1.72               | 300              | 270      | 270      | 225      | 350      | 335      |    |
| 1 CX 300                           | 30              | 2.7                               | -                                 | 4 x0.80                   | 1.56                              | 32.0                      | 1500                    | 2.4                           | 2.0                           | 30.0                      | 1335                   | 0.100                    | 0.1220                   | 0.0863                    | 1.44               | 0.08                      | 1.74               | 335              | 295      | 295      | 245      | 395      | 380      |    |
| 1 CX400                            | 53              | 3.0                               | -                                 | 4 x0.80                   | 1.56                              | 36.0                      | 1910                    | 2.6                           | 2.2                           | 34.0                      | 1665                   | 0.078                    | 0.0961                   | 0.0845                    | 1.48               | 0.08                      | 1.81               | 370              | 325      | 335      | 275      | 455      | 435      |    |
| 1 CX500                            | 53              | 3.4                               | -                                 | 4x 0.80                   | 1.56                              | 40.0                      | 2350                    | 3.0                           | 2.2                           | 38.0                      | 2130                   | 0.061                    | 0.0761                   | 0.0835                    | 1.47               | 0.079                     | 1.86               | 410              | 345      | 335      | 295      | 490      | 480      |    |
| 1 CX630                            | 53              | 3.9                               | -                                 | 4 x0.80                   | 1.72                              | 44.0                      | 2920                    | 3.4                           | 2.4                           | 43.0                      | 2685                   | 0.047                    | 0.0606                   | 0.0833                    | 1.45               | 0.077                     | 1.87               | 435              | 390      | 395      | 320      | 560      | 550      |    |
| 1 CX800                            | 53              | 3.9                               | -                                 | 4 x0.80                   | 1.88                              | 48.0                      | 3510                    | 3.4                           | 2.4                           | 47.0                      | 3255                   | 0.037                    | 0.0495                   | 0.0816                    | 1.61               | 0.077                     | 1.98               | 525              | 440      | 420      | 350      | 650      | 640      |    |
| 1 CX1000                           | 53              | 3.9                               | -                                 | 4 x0.80                   | 2.04                              | 53.0                      | 4300                    | 3.4                           | 2.6                           | 51.5                      | 3960                   | 0.029                    | 0.0416                   | 0.0797                    | 1.81               | 0.076                     | 2.20               | 570              | 490      | 445      | 380      | 735      | 720      |    |

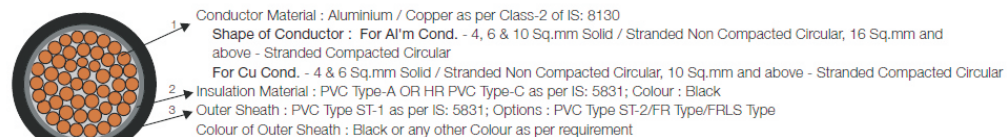
### ARMoured CABLES

Cross-sectional view



### UNARMoured CABLES

Cross-sectional view



## 1 CORE COPPER PVC ARMoured & UNARMoured POWER CABLES

| No of cores & cross sectional area | Min No of Wires | ARMoured                          |                                   |                           |                                   |                           |                         | UNARMoured                    |                               |                           |                        | Max D.C Resistance at 20 | Max A.C Resistance at 70 | ARMoured                  |                    | UNARMoured                |                    | CURRENT RATING   |          |          |          |          |          |
|------------------------------------|-----------------|-----------------------------------|-----------------------------------|---------------------------|-----------------------------------|---------------------------|-------------------------|-------------------------------|-------------------------------|---------------------------|------------------------|--------------------------|--------------------------|---------------------------|--------------------|---------------------------|--------------------|------------------|----------|----------|----------|----------|----------|
|                                    |                 | Thickness of pvc insulation (Nom) | Nominal Dimensions of armour wire | Aluminium strip Thickness | Nom Thickness of pvc outer sheath | overall diameter (approx) | Approx Net Wt. of cable | Thickness of insulation (nom) | Nom Thickness of outer sheath | Overall Diameter (Approx) | Approx Net Wt of cable |                          |                          | Approx Reactance at 50 Hz | Approx capacitance | Approx Reactance at 50 Hz | Approx Capacitance | Direct in Ground |          | In Duct  |          | In Air   |          |
|                                    |                 |                                   |                                   |                           |                                   |                           |                         |                               |                               |                           |                        |                          |                          |                           |                    |                           |                    | 2 Cables         | 3 Cables | 2 Cables | 3 Cables | 2 Cables | 3 Cables |
| (MM)                               | (MM)            | (MM)                              | (MM)                              | (MM)                      | (KG/KM)                           | (MM)                      | (MM)                    | (MM)                          | (KG/KM)                       | Ohm/Km                    | Ohm/Km                 | Ohm/Km                   | mFd/Km                   | Ohm/Km                    | mFd/Km             | Amps                      | Amps               | Amps             | Amps     | Amps     | Amps     |          |          |
| 1 CX4                              | -               | 1.3                               | 1.4                               | -                         | 1.24                              | 11.0                      | 180                     | 1.0                           | 1.8                           | 8.0                       | 100                    | 4.610                    | 5.53                     | 0.157                     | 0.48               | 0.140                     | 0.58               | 46               | 39       | 42       | 38       | 43       | 35       |
| 1 CX6                              | -               | 1.3                               | 1.4                               | -                         | 1.24                              | 12.0                      | 215                     | 1.0                           | 1.8                           | 9.0                       | 130                    | 3.080                    | 3.70                     | 0.148                     | 0.56               | 0.127                     | 0.68               | 57               | 49       | 54       | 48       | 54       | 44       |
| 1 CX 10                            | 6               | 1.3                               | 1.4                               | -                         | 1.24                              | 13.0                      | 270                     | 1.0                           | 1.8                           | 10.0                      | 170                    | 1.830                    | 2.20                     | 0.138                     | 0.67               | 0.118                     | 0.83               | 75               | 65       | 72       | 64       | 72       | 60       |
| 1 CX 16                            | 6               | 1.3                               | 1.4                               | -                         | 1.24                              | 14.0                      | 330                     | 1.0                           | 1.8                           | 11.0                      | 240                    | 1.150                    | 1.3800                   | 0.1250                    | 0.81               | 0.110                     | 1.01               | 94               | 85       | 92       | 83       | 92       | 82       |
| 1 CX25                             | 6               | 1.5                               | 1.4                               | -                         | 1.24                              | 15.0                      | 460                     | 1.2                           | 1.8                           | 12.5                      | 350                    | 0.727                    | 0.8700                   | 0.1200                    | 0.83               | 0.105                     | 1.05               | 125              | 110      | 120      | 110      | 125      | 110      |
| 1 CX 35                            | 6               | 1.5                               | 1.4                               | -                         | 1.24                              | 16.0                      | 575                     | 1.2                           | 1.8                           | 13.5                      | 455                    | 0.524                    | 0.6270                   | 0.1140                    | 0.95               | 0.100                     | 1.22               | 150              | 130      | 140      | 125      | 155      | 130      |
| 1 CX 50                            | 6               | 1.7                               | 1.4                               | -                         | 1.24                              | 18.0                      | 740                     | 1.4                           | 1.8                           | 15.0                      | 620                    | 0.387                    | 0.4630                   | 0.1120                    | 0.95               | 0.098                     | 1.22               | 180              | 155      | 165      | 150      | 190      | 165      |
| 1 CX 70                            | 12              | 1.7                               | 1.4                               | -                         | 1.40                              | 20.0                      | 970                     | 1.4                           | 1.8                           | 17.0                      | 820                    | 0.268                    | 0.3210                   | 0.1040                    | 1.13               | 0.091                     | 1.43               | 220              | 190      | 200      | 175      | 235      | 205      |
| 1 CX 95                            | 15              | 1.9                               | -                                 | 4 X0.80                   | 1.40                              | 21.0                      | 1200                    | 1.6                           | 1.8                           | 19.0                      | 1105                   | 0.193                    | 0.2320                   | 0.0970                    | 1.17               | 0.088                     | 1.47               | 265              | 220      | 230      | 200      | 275      | 245      |
| 1 CX120                            | 18              | 1.9                               | -                                 | 4 X0.80                   | 1.40                              | 22.0                      | 1460                    | 1.6                           | 2.0                           | 21.0                      | 1355                   | 0.153                    | 0.1840                   | 0.0926                    | 1.32               | 0.086                     | 1.62               | 300              | 250      | 255      | 220      | 310      | 280      |
| 1 CX 150                           | 18              | 2.1                               | -                                 | 4X0.80                    | 1.40                              | 24.0                      | 1770                    | 1.8                           | 2.0                           | 22.5                      | 1665                   | 0.124                    | 0.1500                   | 0.0916                    | 1.30               | 0.085                     | 1.62               | 340              | 280      | 280      | 245      | 345      | 320      |
| 1 CX 185                           | 30              | 2.3                               | -                                 | 4 X0.80                   | 1.40                              | 26.0                      | 2170                    | 2.0                           | 2.0                           | 25.0                      | 2040                   | 0.099                    | 0.1200                   | 0.0895                    | 1.35               | 0.084                     | 1.62               | 380              | 305      | 305      | 260      | 390      | 370      |
| 1 CX240                            | 34              | 2.5                               | -                                 | 4 X0.80                   | 1.40                              | 29.0                      | 2740                    | 2.2                           | 2.0                           | 28.0                      | 2590                   | 0.075                    | 0.0928                   | 0.0976                    | 1.40               | 0.082                     | 1.72               | 420              | 345      | 340      | 285      | 445      | 425      |
| 1 CX 300                           | 34              | 2.7                               | -                                 | 4 X0.80                   | 1.56                              | 32.0                      | 3360                    | 2.4                           | 2.0                           | 30.0                      | 3200                   | 0.060                    | 0.0751                   | 0.0863                    | 1.44               | 0.08                      | 1.74               | 465              | 375      | 370      | 310      | 500      | 475      |
| 1 CX400                            | 53              | 3.0                               | -                                 | 4 X0.80                   | 1.56                              | 36.0                      | 4400                    | 2.6                           | 2.2                           | 34.0                      | 4150                   | 0.047                    | 0.0604                   | 0.0845                    | 1.48               | 0.08                      | 1.81               | 500              | 400      | 405      | 335      | 570      | 550      |
| 1 CX500                            | 53              | 3.4                               | -                                 | 4X0.80                    | 1.56                              | 40.0                      | 5450                    | 3.0                           | 2.2                           | 38.0                      | 5230                   | 0.370                    | 0.0490                   | 0.0835                    | 1.47               | 0.079                     | 1.86               | 540              | 425      | 430      | 355      | 610      | 590      |
| 1 CX630                            | 53              | 3.9                               | -                                 | 4X0.80                    | 1.56                              | 44.0                      | 6820                    | 3.4                           | 2.4                           | 43.0                      | 6600                   | 0.280                    | 0.0401                   | 0.0833                    | 1.45               | 0.077                     | 1.87               | 590              | 470      | 465      | 375      | 680      | 660      |