

# GRID INDIA POWER CABLES PVT. LTD.



| 3.5 CORE COPPER PVC ARMOURED POWER CABLES |                   |   |   |                                   |      |   |             |                                 |             |                           |                     |                                      |                                      |                                     |                              |                       |             |       |
|---|-------------------|---|---|-----------------------------------|------|---|-------------|---------------------------------|-------------|---------------------------|---------------------|--------------------------------------|--------------------------------------|-------------------------------------|------------------------------|-----------------------|-------------|-------|
| No. of cores and cross sectional area     | Min. No. of wires | Thickness of PVC Insulation (Nom.) (mm) | Min. Thickness of PVC Innersheat h (mm) | Nominal Dimensions of Armour (mm) |      | Min. Thickness of PVC Outer Sheath (mm) |             | Overall Diameter (Approx.) (mm) |             | Approx. Net. Wet of Cable |                     | Max. D.C. Resistance at 20 (Ohms/Km) | Max. A.C. Resistance at 70 (Ohms/Km) | Approx. Reactance at 50 Hz (Ohm/Km) | Approx. Capacitance (mFd/Km) | CURRENT RATINGS       |             |       |
|   |                   |   |   | Strip                             | Wire | Strip Armour                            | Wire Armour | Strip Armour                    | Wire Armour | Strip Armour (Kg/Km)      | Wire Armour (Kg/Km) |                                      |                                      |                                     |                              | Direct in Ground Amps | In Air Amps |       |
|   |                   |   |   |                                   |      |   |             |                                 |             |                           |                     |                                      |                                      |                                     |                              |                       |             | Strip |
| 3.5C x 25/16                              | 6/6.              | 1.2/1.0                                 | 0.3                                     | 4x0.8                             | 1.60 | 1.40                                    | 1.40        | 25.0                            | 26.5        | 1584                      | 1828                | 0.727                                | 0.87                                 | 0.097                               | 0.86                         | 99                    | 90          |       |
| 3.5C x 35/16                              | 6/6.              | 1.2/1.0                                 | 0.3                                     | 4x0.8                             | 1.60 | 1.40                                    | 1.40        | 26.0                            | 27.5        | 1896                      | 2146                | 0.524                                | 0.627                                | 0.097                               | 0.98                         | 120                   | 110         |       |
| 3.5C x 50/25                              | 6/6.              | 1.4/1.2                                 | 0.3                                     | 4x0.8                             | 1.60 | 1.56                                    | 1.56        | 29.5                            | 31.0        | 2480                      | 2763                | 0.387                                | 0.463                                | 0.094                               | 1.02                         | 145                   | 135         |       |
| 3.5C x 70/35                              | 12/6.             | 1.4/1.2                                 | 0.4                                     | 4x0.8                             | 2.00 | 1.56                                    | 1.56        | 33.5                            | 36.0        | 3302                      | 3876                | 0.268                                | 0.321                                | 0.090                               | 1.18                         | 175                   | 165         |       |
| 3.5C x 95/50                              | 15/6.             | 1.6/1.4                                 | 0.4                                     | 4x0.8                             | 2.00 | 1.56                                    | 1.72        | 37.5                            | 40.0        | 4349                      | 4976                | 0.193                                | 0.231                                | 0.09                                | 1.20                         | 210                   | 200         |       |
| 3.5C x 120/70                             | 18/12.            | 1.6/1.4                                 | 0.5                                     | 4x0.8                             | 2.00 | 1.72                                    | 1.88        | 41.0                            | 43.0        | 5335                      | 6011                | 0.153                                | 0.184                                | 0.087                               | 1.31                         | 240                   | 230         |       |
| 3.5C x 150/70                             | 18/12.            | 1.8/1.4                                 | 0.5                                     | 4x0.8                             | 2.00 | 1.88                                    | 1.88        | 45.5                            | 48.0        | 6359                      | 7116                | 0.124                                | 0.149                                | 0.087                               | 1.31                         | 270                   | 265         |       |
| 3.5C x 185/95                             | 30/15.            | 2.0/1.6                                 | 0.5                                     | 4x0.8                             | 2.50 | 2.04                                    | 2.04        | 50.0                            | 53.5        | 7821                      | 9105                | 0.0991                               | 0.120                                | 0.087                               | 1.31                         | 300                   | 305         |       |
| 3.5C x 240/120                            | 34/18.            | 2.2/1.6                                 | 0.6                                     | 4x0.8                             | 2.50 | 2.20                                    | 2.36        | 57.0                            | 60.0        | 10027                     | 11464               | 0.0754                               | 0.0912                               | 0.087                               | 1.34                         | 345                   | 355         |       |
| 3.5C x 300/150                            | 34/18.            | 2.4/1.8                                 | 0.6                                     | 4x0.8                             | 3.15 | 2.36                                    | 2.52        | 61.5                            | 66.0        | 12277                     | 14600               | 0.0601                               | 0.0739                               | 0.086                               | 1.41                         | 385                   | 400         |       |
| 3.5C x 400/185                            | 53/30.            | 2.6/2.0                                 | 0.7                                     | 4x0.8                             | 3.15 | 2.68                                    | 2.68        | 70.0                            | 75.0        | 15402                     | 18083               | 0.0470                               | 0.0592                               | 0.086                               | 1.45                         | 425                   | 455         |       |