



# S.M.C

Single core cables 3.6/6.0 KV to 18/30 KV  
 Copper or Aluminum conductors,  
 XLPE Insulated Armored Cables

| Normal Area of Conductor<br>Sqmm | In Air                 |          | In Ground              |          | In Duct     |          |
|----------------------------------|------------------------|----------|------------------------|----------|-------------|----------|
|                                  | Single core in Trefoil |          | Single core in Trefoil |          | Laid Singly |          |
|                                  | Copper                 | Aluminum | Copper                 | Aluminum | Copper      | Aluminum |
|                                  | A                      |          | A                      |          | A           |          |
| 50                               | 239                    | 186      | 212                    | 163      | 212         | 163      |
| 70                               | 296                    | 230      | 259                    | 202      | 249         | 202      |
| 95                               | 359                    | 282      | 308                    | 241      | 293         | 235      |
| 120                              | 412                    | 340      | 346                    | 269      | 327         | 265      |
| 150                              | 469                    | 364      | 394                    | 302      | 361         | 288      |
| 185                              | 526                    | 416      | 437                    | 341      | 394         | 322      |
| 240                              | 622                    | 488      | 500                    | 389      | 449         | 365      |
| 300                              | 708                    | 555      | 557                    | 437      | 481         | 404      |
| 400                              | 804                    | 641      | 625                    | 490      | 510         | 437      |
| 500                              | 890                    | 736      | 683                    | 548      | 548         | 481      |
| 630                              | 995                    | 842      | 730                    | 616      | 596         | 529      |

Operating conditions:

Ambient air temperature: 30°C

Ground temperature: 20°C

Depth of laying: 0.8m

Thermal resistivity of soil: 1.2 K.m/W

Above values can be applied safety for Unarmored cables also.