

FLEXIBLE CABLES

| SINGLE CORE UNSHEATHED FLEXIBLE CABLES | | | | | |
|--|---------------------|-----------------------------|----------------------|------------------|----------------|
| CONFORMING SPECIFICATION IS 694 | | | | | |
| AREA | NO. & SIZE OF WIRES | CONDUCTOR RESISTANCE @ 20°C | INSULATION THICKNESS | OVERALL DIAMETER | CURRENT RATING |
| mm ² | mm | ohm/km | mm | mm | Amps. |
| 0.50 | 16/0.2 | 39.0000 | 0.60 | 2.20 | 4.00 |
| 0.75 | 24/0.2 | 26.0000 | 0.60 | 2.45 | 7.00 |
| 1.00 | 32/0.2 | 19.5000 | 0.60 | 2.60 | 12.00 |
| 1.50 | 30/0.25/48/0.2 | 13.0000 | 0.60 | 2.90 | 15.00 |
| 2.50 | 50/0.25/80/0.2 | 7.8200 | 0.70 | 3.55 | 20.00 |
| 4.00 | 56/0.3 | 4.9500 | 0.80 | 4.20 | 27.00 |
| 6.00 | 84/0.3 | 3.3000 | 0.80 | 5.20 | 35.00 |
| 10.00 | 80/0.4/14/0.3 | 1.9100 | 1.00 | 6.70 | 46.00 |
| 16.00 | 126/0.4 | 1.2100 | 1.00 | 7.80 | 62.00 |
| 25.00 | 196/0.4 | 0.7800 | 1.20 | 9.70 | 80.00 |
| 35.00 | 276/0.4 | 0.5540 | 1.20 | 10.90 | 102.00 |
| 50.00 | 396/0.4 | 0.3860 | 1.40 | 13.20 | 138.00 |
| 70.00 | 360/0.5 | 0.2720 | 1.40 | 15.30 | 214.00 |
| 95.00 | 275/0.5 | 0.2060 | 1.60 | 17.90 | 260.00 |
| 120.00 | 608/0.5 | 0.1610 | 1.60 | 19.40 | 305.00 |
| 150.00 | 750/0.5 | 0.1290 | 1.80 | 21.90 | 355.00 |
| 185.00 | 925/0.5 | 0.1060 | 2.00 | 24.50 | 415.00 |
| 240.00 | 1221/0.5 | 0.0801 | 2.20 | 28.00 | 500.00 |

| PLAIN COPPER CONDUCTOR, PVC INSULATED AND SHEATHED | | | | | | | | | | | |
|--|--------------|------------------------------|-----------|--------------------------|--------|--------|----------------------|--------|--------|----------------------------|----------------|
| 650/1100V, MULTICORE FLEXIBLE CABLES AS PER IS:694/1990 | | | | | | | | | | | |
| Area | Construction | Insulation Thickness Nominal | Core Dia. | Nominal Sheath Thickness | | | Overall Dia. Approx. | | | Max. DC Resistance at 20°C | Current Rating |
| | | | | 2 core | 3 core | 4 core | 2 core | 3 core | 4 core | | |
| mm ² | No./Dia | mm | mm | mm | mm | mm | mm | mm | mm | ohm/km | Amps. |
| 0.5 | 16/0.2 | 0.6 | 2.2 | 0.9 | 0.9 | 0.9 | 6.2 | 6.6 | 7.2 | 39 | 4 |
| 0.75 | 24/0.2 | 0.6 | 2.5 | 0.9 | 0.9 | 0.9 | 6.8 | 7.2 | 7.9 | 26 | 7 |
| 1 | 32/0.2 | 0.6 | 2.6 | 0.9 | 0.9 | 0.9 | 7 | 7.5 | 8.1 | 19.5 | 11 |
| 1.5 | 30/0.25 | 0.6 | 2.9 | 0.9 | 0.9 | 0.9 | 7.6 | 8.1 | 9 | 13.3 | 14 |
| 2.5 | 50/0.25 | 0.7 | 3.5 | 1 | 1 | 1 | 9 | 9.6 | 10.5 | 7.98 | 19 |
| 4 | 56/0.3 | 0.8 | 4.3 | 1 | 1 | 1 | 10.6 | 11.3 | 12.4 | 4.95 | 26 |
| 6 | 84/0.3 | 0.8 | 5.1 | 1.15 | 1.15 | 1.4 | 12.6 | 13.4 | 15.2 | 3.3 | 33 |
| 10 | 140/0.3 | 1 | 6.6 | 1.4 | 1.4 | 1.4 | 16 | 17 | 18.8 | 1.91 | 45 |
| 16 | 126/0.4 | 1 | 8 | 1.4 | 1.4 | 1.4 | 18.8 | 20.1 | 22.2 | 1.21 | 60 |
| 25 | 196/0.4 | 1.2 | 10 | 2 | 2 | 2 | 24 | 25.6 | 28.2 | 0.78 | 75 |
| 35 | 276/0.4 | 1.2 | 11.1 | 2 | 2 | 2 | 26.3 | 28 | 31 | 0.554 | 95 |
| 50 | 396/0.4 | 1.4 | 13.4 | 2 | 2 | 2 | 30.9 | 33 | 36.5 | 0.386 | 125 |

| SINGLE CORE / MULTI CORE / PVC FLEXIBLE CABLES (1.1 KV GRADE) | | | | | | | |
|---|---------------------|--------|--------|--------|---------------------|---------------------|--------|
| CONFORMING SPECIFICATION IS 694 | | | | | | | |
| AREA/ mm ² | | 0.5 | 0.75 | 1.0 | 1.5 | 2.5 | 4.0 |
| No. Of Wires & Size Of Wire | | 16/0.2 | 24/0.2 | 32/0.2 | 30/0.2 or 48/0.2 | 50/0.2 or 80/0.2 | 56/0.3 |
| Conductor Resistance @ 20°C ohm/km | | 39.00 | 26.00 | 19.50 | 13.30 | 7.98 | 4.95 |
| Current Rating - Amps | | 4.00 | 7.00 | 12.00 | 15.00 | 20.00 | 27.00 |
| Insulation Thickness Of mm | | 0.60 | 0.60 | 0.60 | 0.60 | 0.70 | 0.80 |
| SINGLE CORE | Sheath Thickness mm | 0.90 | 0.90 | 0.90 | 0.90 | 1.00 | 1.00 |
| | Overall Diameter mm | 4.00 | 4.25 | 4.50 | 4.80 | 5.45 | 6.30 |
| 2 CORE | Sheath Thickness mm | 0.90 | 0.90 | 0.90 | 0.90 | 1.00 | 1.00 |
| | Overall Diameter mm | 6.50 | 7.00 | 7.30 | 7.80 | 9.50 | 11.00 |
| 3 CORE | Sheath Thickness mm | 0.90 | 0.90 | 0.90 | 0.90 | 1.00 | 1.00 |
| | Overall Diameter mm | 6.90 | 7.40 | 7.70 | 8.20 | 10.00 | 11.50 |
| 4 CORE | Sheath Thickness mm | 0.90 | 0.90 | 0.90 | 1.00 | 1.00 | 1.00 |
| | Overall Diameter mm | 7.50 | 8.00 | 8.50 | 9.50 | 11.00 | 13.00 |
| 5 CORE | Sheath Thickness mm | 0.90 | 0.90 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Overall Diameter mm | 8.30 | 9.00 | 9.50 | 10.50 | 12.00 | 14.00 |
| 6 CORE | Sheath Thickness mm | 0.90 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| | Overall Diameter mm | 9.00 | 10.00 | 10.50 | 11.00 | 13.50 | 16.00 |
| 7 CORE | Sheath Thickness mm | 0.90 | 1.00 | 1.00 | 1.10 | 1.20 | 1.30 |
| | Overall Diameter mm | 9.00 | 10.00 | 10.50 | 11.00 | 13.50 | 16.00 |
| 8 CORE | Sheath Thickness mm | 1.00 | 1.00 | 1.00 | 1.10 | 1.20 | 1.30 |
| | Overall Diameter mm | 9.50 | 10.50 | 11.00 | 12.00 | 14.50 | 17.00 |
| 10 CORE | Sheath Thickness mm | 1.00 | 1.10 | 1.00 | 1.10 | 1.30 | 1.40 |
| | Overall Diameter mm | 11.50 | 12.50 | 13.50 | 14.50 | 17.50 | 19.50 |
| 12 CORE | Sheath Thickness mm | 1.00 | 1.10 | 1.10 | 1.10 | 1.30 | 1.40 |
| | Overall Diameter mm | 12.00 | 13.00 | 14.00 | 15.00 | 18.00 | 20.50 |
| 14 CORE | Sheath Thickness mm | 1.10 | 1.10 | 1.10 | 1.20 | 1.30 | 1.40 |
| | Overall Diameter mm | 12.50 | 14.00 | 14.50 | 16.00 | 19.00 | 22.50 |
| 16 CORE | Sheath Thickness mm | 1.10 | 1.20 | 1.20 | 1.20 | 1.40 | 1.50 |
| | Overall Diameter mm | 13.50 | 14.50 | 15.50 | 17.00 | 20.50 | 24.00 |
| 19 CORE | Sheath Thickness mm | 1.10 | 1.20 | 1.30 | 1.30 | 1.40 | 1.50 |
| | Overall Diameter mm | 14.50 | 15.50 | 17.00 | 18.00 | 21.50 | 25.50 |