

BRAIDED / SHIELDED MULTICORE CABLES

POLARIS - BRAIDED / SHIELDED & INSTRUMENTATION MULTICORE FLEXIBLE CABLES 1100 V GENERALLY CONFORMING TO IS-694

| Nominal Cross Sectional Area | Approx. No. of Cond/Dia of wires | Max. D.C. resistance at 20°C | Current Carrying Capacity | Thickness of PVC Insulation (Nom.) | 2 CORE | | | 3 CORE | | | 4 CORE | | |
|---------------------------------------|---|------------------------------------|---------------------------------|---|---------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|--------------------------------|
| | | | | | Thick of PVC Outer sheath | Approx. Overall Diameter | Approx. Net Wt. of Cable | Thick of PVC Outer sheath | Approx. Overall Diameter | Approx. Net Wt. of Cable | Thick of PVC Outer sheath | Approx. Overall Diameter | Approx. Net Wt. of Cable |
| mm ² | mm | Ohm/Km | Amps | mm | mm | mm | (kg/Km) | mm | mm | (kg/Km) | mm | mm | (kg/Km) |
| 0.50 | 16/0.20 | 39.00 | 04 | 0.60 | 0.90 | 8.25 | 96 | 0.90 | 8.50 | 104 | 0.90 | 9.15 | 122 |
| 0.75 | 24/0.20 | 26.00 | 07 | 0.60 | 0.90 | 8.65 | 107 | 0.90 | 8.95 | 119 | 0.90 | 9.60 | 139 |
| 1.00 | 32/0.20 | 19.50 | 12 | 0.60 | 0.90 | 9.00 | 119 | 0.90 | 9.30 | 132 | 0.90 | 10.00 | 156 |
| 1.50 | 30/0.25 | 13.30 | 15 | 0.60 | 0.90 | 9.50 | 137 | 0.90 | 9.90 | 156 | 1.00 | 10.70 | 186 |
| 2.50 | 50/0.25 | 7.98 | 20 | 0.70 | 1.00 | 11.00 | 188 | 1.00 | 11.50 | 217 | 1.00 | 12.50 | 262 |
| 4.00 | 56/0.30 | 4.95 | 23 | 0.80 | 1.00 | 12.30 | 240 | 1.00 | 13.00 | 287 | 1.00 | 14.30 | 356 |
| 6.00 | 84/0.30 | 3.30 | 35 | 0.80 | 1.10 | 13.60 | 306 | 1.10 | 14.30 | 368 | 1.20 | 16.00 | 468 |
| 10.00 | 80/0.40 | 1.91 | 46 | 1.00 | 1.20 | 16.60 | 472 | 1.20 | 17.30 | 566 | 1.30 | 19.30 | 719 |
| 16.00 | 126/0.40 | 1.21 | 62 | 1.00 | 1.30 | 19.30 | 671 | 1.30 | 20.20 | 815 | 1.40 | 22.50 | 1036 |
| 25.00 | 196/0.40 | 0.780 | 80 | 1.20 | 1.40 | 24.40 | 1029 | 1.50 | 25.80 | 1261 | 1.60 | 28.80 | 1602 |
| 35.00 | 276/0.40 | 0.554 | 102 | 1.20 | 1.50 | 27.10 | 1320 | 1.60 | 28.60 | 1626 | 1.70 | 32.00 | 2081 |
| 50.00 | 396/0.40 | 0.386 | 138 | 1.40 | 1.60 | 31.70 | 1823 | 1.70 | 33.50 | 2257 | 1.80 | 37.60 | 2904 |

Notes :

1) **Colour Code :**

Two core : Red & Black

Three core : Red, Black & Green

Four core : Red, Yellow, Blue & Green

2) *As per international practice, when as also adopted by BIS, the size of conductor is decided by its resistance only. The construction of conductor is maintained within requirements of IS:8130-1984 as presented by IS:694.*