



S.M.C

Four Core Cables with reduced Neutral Cu/PVC/PVC/SWA/ PVC & Cu/PVC/SWA/PVC 600/1000 V - FOUR CORE WITH REDUCED NEUTRAL COPPER CONDUCTOR

PVC INSULATED STEEL WIRE ARMoured PVC SHEATHED CABLES

(CU/PVC/PVC/SWA/PV C AND CU/PVC/SWA/PVC)



| Nominal Area of Conductor | | Maximum Conductor Resistance at 20°C | | Thickness of Insulation | | Thickness of Bedding | | Dia of Armor wire | Thickness of Outer Sheath | Approx. Overall Dia. | | Approx. Cable Weight | | Standard Packing Length | Drum Size | Approx. Gross Weight | |
|---------------------------|---------|--------------------------------------|---------|-------------------------|---------|----------------------|--------|-------------------|---------------------------|----------------------|----------------|----------------------|----------------|-------------------------|-----------|----------------------|----------------|
| Phase | Neutral | Phase | Neutral | Phase | Neutral | Extruded | Lapped | | | Extruded Bedding | Lapped Bedding | Extruded Bedding | Lapped Bedding | | | Extruded Bedding | Lapped Bedding |
| Sqmm | | Ohm/Km | | mm | | mm | | mm | mm | mm | | Kg/Km | | Meter ± 5% | | Kg | |
| 1 | *6 | 1.83 | 3.08 | 1.0 | 1.0 | 1.0 | - | 1.25 | 1.8 | 22.7 | - | 1080 | - | 1000 | D-14 | 1230 | - |
| 1 | *10 | 1.15 | 1.83 | 1.0 | 1.0 | 1.0 | - | 1.6 | 1.8 | 25.9 | - | 1530 | - | 500 | D-12 | 875 | - |
| 25 | 16 | 0.727 | 1.15 | 1.2 | 1.0 | 1.0 | 0.8 | 1.6 | 1.8 | 27.9 | 26.8 | 1930 | 1810 | 500 | D-12 | 1080 | 1020 |
| 35 | 16 | 0.524 | 1.15 | 1.2 | 1.0 | 1.0 | 0.8 | 1.6 | 1.8 | 31.3 | 30.2 | 2360 | 2230 | 500 | D-14 | 1330 | 1270 |
| 50 | 25 | 0.387 | 0.727 | 1.4 | 1.2 | 1.0 | 0.8 | 1.6 | 1.9 | 34.9 | 33.8 | 3020 | 2870 | 500 | D-16 | 1720 | 1650 |
| 70 | 35 | 0.268 | 0.524 | 1.4 | 1.2 | 1.2 | 0.8 | 2.0 | 2.0 | 39.2 | 37.7 | 4130 | 3920 | 500 | D-18 | 2310 | 2200 |
| 95 | 50 | 0.193 | 0.387 | 1.6 | 1.4 | 1.2 | 0.8 | 2.0 | 2.2 | 44.6 | 43.1 | 5340 | 5110 | 500 | D-18 | 2910 | 2800 |



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|-----|-----|--------|--------|-----|-----|-----|-----|------|-----|------|------|-------|-------|-----|------|------|------|
| 120 | 70 | 0.153 | 0.268 | 1.6 | 1.4 | 1.4 | 0.8 | 2.5 | 2.3 | 48.9 | 47.0 | 6860 | 6500 | 500 | D-19 | 3750 | 3570 |
| 150 | 70 | 0.124 | 0.268 | 1.8 | 1.4 | 1.4 | 0.8 | 2.5 | 2.4 | 53.8 | 51.9 | 8090 | 7740 | 500 | D-19 | 4370 | 4190 |
| 185 | 95 | 0.0991 | 0.193 | 2.0 | 1.6 | 1.4 | 0.8 | 2.5 | 2.5 | 58.5 | 56.6 | 9700 | 9330 | 250 | D-18 | 2670 | 2570 |
| 240 | 120 | 0.0754 | 0.153 | 2.2 | 1.6 | 1.6 | 0.8 | 2.5 | 2.7 | 64.5 | 62.2 | 11990 | 11540 | 250 | D-18 | 3240 | 3130 |
| 300 | 150 | 0.0601 | 0.124 | 2.4 | 1.8 | 1.6 | 0.8 | 2.5 | 2.9 | 70.7 | 68.4 | 14620 | 14080 | 250 | D-21 | 4080 | 3940 |
| 300 | 185 | 0.0601 | 0.0991 | 2.4 | 2.0 | 1.6 | 0.8 | 2.5 | 2.9 | 70.7 | 68.4 | 14930 | 14390 | 250 | D-21 | 4150 | 4020 |
| 400 | 185 | 0.0470 | 0.0991 | 2.6 | 2.0 | 1.8 | 0.8 | 3.15 | 3.1 | 79.6 | 76.9 | 18970 | 18310 | 200 | D-19 | 4110 | 3980 |

* Phase conductors up to 16 Sqmm circular stranded (Class 2).

Phase conductors 25 Sqmm and above shaped stranded (Class 2) All
neutral conductors circular stranded (Class 2).

All the Cables are insulated with either PVC Type 5 Heat Resisting 85°C compound and sheathed with PVC Type 9/ST2 compound OR PVC type A/TI1 compound and sheathed with PVC Type ST1/TM1 compound.

Drum size given above are for Cables with extruded bedding.

* Cables conform to IEC 60502 - 1.

All other Cables conform to BS 6346.