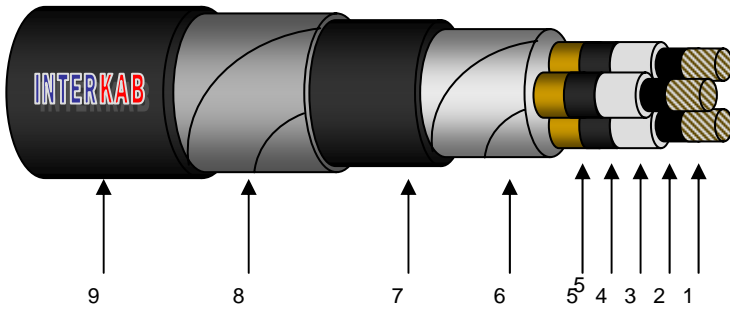


**6/10kv  
Flame Retardant**

**Onshore Power & Control Cables to IEC 60502 Specification**

Multi Core Armoured Cables



**Applicable Standards:**  
  
IEC 60502/1997  
IEC 60228/1997  
IEC 60332

|   |  |
|---|--|
| <b>Application:</b>                     | For installation on Brackets, Trays, Ducts or direct burial when well protected  |
| <b>(1) Conductor:</b>                   | Plain round compacted Aluminium conductor according to IEC 60228/1997 specifications   |
| <b>(2) Conductor screen :</b>           | The conductors are covered by an extruded semi-conductive layer  |
| <b>(3) Insulation:</b>                  | Over the conductor screen is extruded Cross Linked Poly-Ethylene (XLPE) compound layer   |
| <b>(4) Insulation screen:</b>           | Over the insulation is extruded a semi-conductive layer firmly bonded to the insulation (on request strippable)  |
| <b>(5) Metallic screen:</b>             | Over the insulation semi-conductive layer is helically applied one or more copper tapes of 0.1 mm thickness, with a suitable overlap (copper wire screen available on request)                   |
| <b>(6) Assembling-Filling-Wrapping:</b> | The three insulated and screened conductors are then assembled together, with Polypropylene fillers and wrapped with non-hygroscopic separation tape, helically applied with a suitable overlap. |
| <b>(7) Bedding :</b>                    | Over the assembled cores is extruded a bedding of suitable material resisting at the maximum operating temperature.  |
| <b>(8) Armouring :</b>                  | Two galvanized steel tapes are applied over the bedding in open helix, the outer tape covering completely the gap left by the inner tape.  |
| <b>(9) Outer sheath:</b>                | Over the assembled cores, is finally applied by continuous extrusion the outer PVC Type (ST2) covering, of suitable thickness.   |

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|   |        |        |        |        |        |        |        |        |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Nominal cross-section area cond./scr.(mm <sup>2</sup> ) | 50     | 70     | 95     | 120    | 150    | 185    | 240    | 300    |
| XLPE insulation thickness (mm)                          | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| Φ or thickness of armour (mm)                           | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| Outer sheath thickness (mm)                             | 2.6    | 2.7    | 2.8    | 2.9    | 3.0    | 3.1    | 3.3    | 3.5    |
| Cable overall Diameter approx. (mm)                     | 51.3   | 55.1   | 59.3   | 63.3   | 66.4   | 70.7   | 76.4   | 82.5   |
| Cable net weight approx. (kg/km)                        | 3200   | 3690   | 4280   | 4840   | 5320   | 6040   | 7080   | 8200   |
| Ohmic resistance D.C. at 20°C (max) (Ω/km)              | 0.641  | 0.443  | 0.320  | 0.253  | 0.206  | 0.164  | 0.125  | 0.100  |
| Ohmic resistance A.C. at 90°C (max) (Ω/km)              | 0.8240 | 0.5710 | 0.4130 | 0.3260 | 0.2680 | 0.2146 | 0.1636 | 0.1359 |