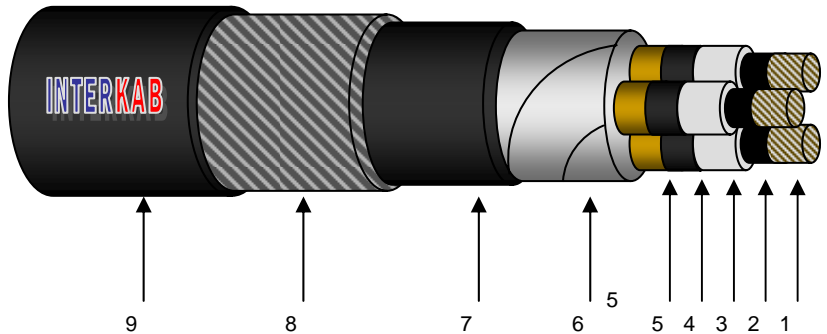


**3.6/6kv  
Flame Retardant**

**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>	Generally used for outdoor installations for direct burial in soil or in any kind of soil having very small resistance on supporting heavy loads
<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>	A layer of steel wires of suitable diameter is concentrically applied over the bedding in such a way to leave the minimum gap between the wires.
<b>(9) Outer sheath:</b>	Over the so armoured cable is finally applied by continuous extrusion the outer PVC Type (ST2) covering of suitable thickness.

**3.6/6kv  
Flame Retardant**

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

Multi Core Armoured Cables

Nominal cross-section area cond./scr.(mm <sup>2</sup> )	50	70	95	120	150	185	240	300
XLPE insulation thickness (mm)	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.8
Φ or thickness of armour (mm)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.15
Outer sheath thickness (mm)	2.5	2.6	2.7	2.9	3.0	3.1	3.3	3.5
Cable overall Diameter approx. (mm)	50.2	54.0	58.2	62.4	65.7	69.8	76.0	84.4
Cable net weight approx. (kg/km)	4260	4850	5520	6240	6830	7630	8870	11360
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