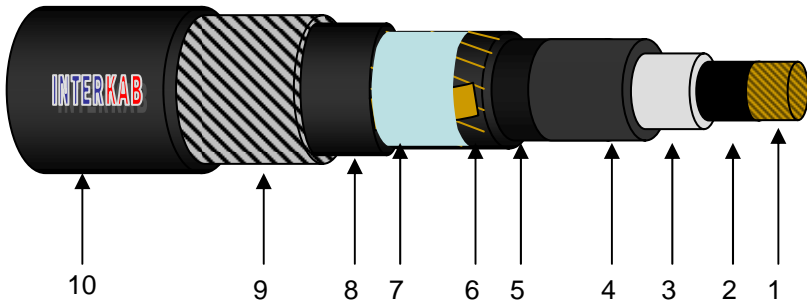


**12/20kv  
Flame Retardant**

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

Single 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 copper conductor according to IEC 60228/1997 specifications
<b>(2) Conductor screen :</b>	The conductor is 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) Swelling tape:</b>	Over the insulation metallic screen a swelling tape is applied, with suitable overlap
<b>(6) Insulation metallic screen:</b>	Over the insulation semi-conductive layer is concentrically applied a layer of copper wires suitable to cover the earth ohmic resistance, banded with the thin copper tape, which prevents the opening of copper wires layer and assures good electrical contact between them (copper tape screen available on request, swelling tape under metallic screen optionally)
<b>(7) Separation tape:</b>	Over the insulation metallic screen is helically applied, wrapped a separating tape of suitable thickness
<b>(8) Bedding:</b>	Over the separating tape is extruded a bedding of PVC resisting at the maximum operating temperature
<b>(9) Armour:</b>	A layer of Aluminium wires of suitable diameter is concentrically applied over the bedding, in such a way, to leave the minimum gap between the wires
<b>(10) Outer sheath:</b>	Over the separating wrapped tape is finally applied by continuous extrusion the outer PVC Type (ST2) covering of suitable thickness

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<b>Nominal cross-section area cond./scr.(mm<sup>2</sup>)</b>	50/16	70/16	95/16	120/16	150/25	185/25	240/25	300/25	400/35	500/35	630/35
<b>XLPE insulation thickness (mm)</b>	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
<b>AL wire armour (mm)</b>	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5
<b>Outer sheath thickness (mm)</b>	2.0	2.1	2.1	2.2	2.2	2.3	2.4	2.5	2.6	2.7	2.8
<b>Cable overall Diameter approx. (mm)</b>	34.8	36.7	38.6	39.8	41.2	43.4	47.0	50.5	53.2	56.6	61.8
<b>Cable net weight approx. (kg/km)</b>	1900	2180	2530	2790	3200	3640	4500	5250	6260	7370	9000
<b>Ohmic resistance D.C. at 20°C (max) (Ω/km)</b>	0.3870	0.2680	0.1930	0.1530	0.1240	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283
<b>Ohmic resistance A.C. at 90°C (max) (Ω/km)</b>	0.4950	0.3430	0.2480	0.1970	0.1610	0.1300	0.0991	0.0806	0.0650	0.0531	0.0437