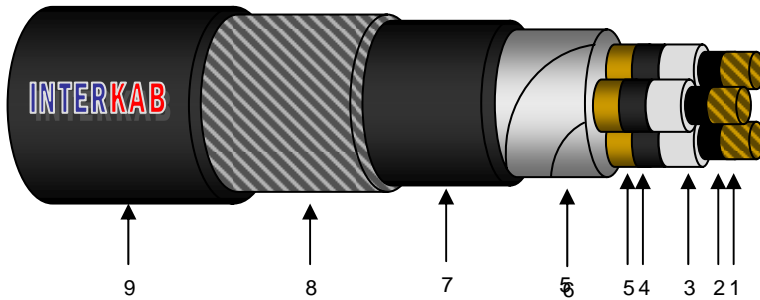


**12/20kv
Flame Retardant**

Onshore Power & Control Cables to IEC 60502 Specification

Multi Core Armoured Cables



Applicable Standards:

IEC 60502/1997
IEC 60228/1997
IEC 60332

Application:	Generally used for outdoor installations for direct burial in soil or in any kind of soil having very small resistance on supporting heavy loads
(1) Conductor:	Plain round compacted copper conductor according to IEC 60228/1997 specifications
(2) Conductor screen :	The conductors are covered by an extruded semi-conductive layer
(3) Insulation:	Over the conductor screen is extruded Cross Linked Poly-Ethylene (XLPE) compound layer
(4) Insulation screen:	Over the insulation is extruded a semi-conductive layer firmly bonded to the insulation (on request strippable)
(5) Metallic screen:	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)
(6) Assembling-Filling-Wrapping:	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.
(7) Bedding :	Over the assembled cores is extruded a bedding of suitable material resisting at the maximum operating temperature.
(8) Armouring :	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.
(9) Outer sheath:	Over the so armoured cable 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 ²)	50	70	95	120	150	185	240	300
XLPE insulation thickness (mm)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Φ or thickness of armour (mm)	2.5	2.5	2.5	3.15	3.15	3.15	3.15	3.15
Outer sheath thickness (mm)	3.0	3.1	3.2	3.4	3.5	3.6	3.8	3.9
Cable overall Diameter approx. (mm)	64.7	68.4	72.7	78.1	81.3	85.4	91.1	97.0
Cable net weight approx. (kg/km)	7160	8170	9470	11650	12850	14520	16950	19650
Ohmic resistance D.C. at 20°C (max) (Ω/km)	0.3870	0.2680	0.1930	0.1530	0.1240	0.0991	0.0754	0.0601
Ohmic resistance A.C. at 90°C (max) (Ω/km)	0.4950	0.3420	0.2480	0.1980	0.1602	0.1300	0.0998	0.0812