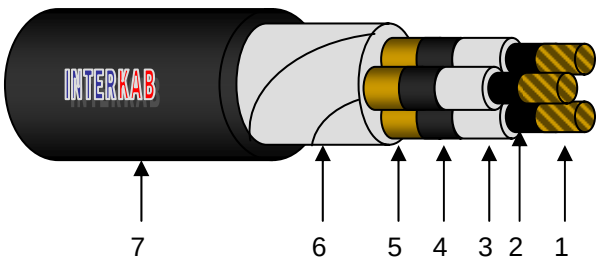
ICM | International Cable Management

Datasheet Ref: ONS-IEC-PC-MV-FR

6/10kv Flame Retardant

Onshore Power & Control Cables to IEC 60502 Specification

Multi Core Unarmoured Cables



Applicable Standards:

IEC 60502/1997
IEC 60228/1997
IEC 60332

Application:	For installation on Brackets, Trays, Ducts or direct burial when well protected
(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) Outer sheath:	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.(mm2)	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)	-	-	-	-	-	-	-	-
Outer sheath thickness (mm)	2.4	2.5	2.7	2.8	2.9	3.0	3.1	3.3
Cable overall Diameter approx. (mm)	45.9	49.5	53.8	57.6	60.7	64.7	70.0	76.0
Cable net weight approx. (kg/km)	2930	3680	4660	5600	6480	7800	9670	11800
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

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