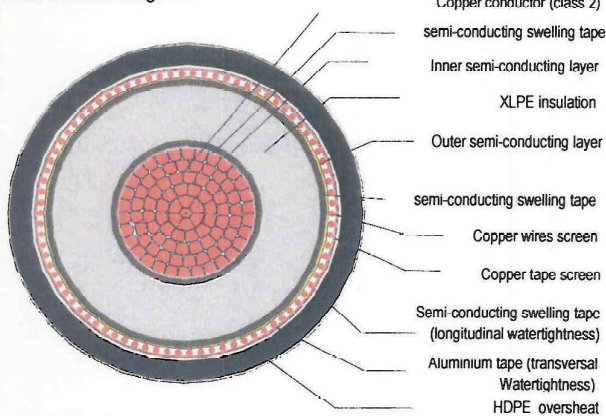


Type:	Designation:	Standard:
Cable for Rated Voltage from $U_0/U=64/110$ ( $U_m=123$ kV)	<b>2XS(FL)2Y 64/110 kV 1x630 RM/235</b>	<b>IEC 60840</b>
Description	Unit	Characteristics
<b>1. Dimensional Characteristics</b>		
<b>1.1 Conductor (longitudinal water blocked)</b>		
Standard	-	<b>IEC 60228</b>
Type	-	<b>Copper Classe 2 (Compacted)</b>
Nominal area	mm <sup>2</sup>	<b>630</b>
Composition ( minimum number of wires)	-	<b>53</b>
Approximate diameter	mm	<b>30,6</b>
<b>1.2 Conductor Screen</b>		
<b>1.2.1 Semi-conductive Tape</b>		
Nominal Thickness		<b>0,56</b>
Approximate diameter over	mm	<b>32,8</b>
<b>1.2.2 Extruded semi-conducting</b>		
Nominal Thickness	mm	<b>1,2</b>
Minimum Thickness	mm	<b>0,5</b>
Approximate diameter over semi-conducting layer	mm	<b>35,3</b>
<b>1.3 Insulation</b>		
Material	-	<b>XLPE</b>
Nominal Thickness	mm	<b>16,0</b>
Minimum Thickness	mm	<b>14,4</b>
Approximate diameter over insulation	mm	<b>67,7</b>
<b>1.4 Insulation Screen</b>		
Material	-	<b>Extruded semi-conducting compound, cross linked</b>
Nominal Thickness	mm	<b>1,2</b>
Minimum Thickness	mm	<b>0,5</b>
Approximate diameter over semi-conducting layer	mm	<b>70,2</b>
<b>1.5 Longitudinal Watertightness</b>		
Material	-	<b>S/C Swelling Tape</b>
Nominal Thickness		<b>0,56</b>
Approximate diameter over	mm	<b>72,5</b>
<b>1.6 Metallic Screen</b>		
Material	-	<b>Combination of Copper wires and Copper tape</b>
Nominal diameter of copper wires	mm	<b>1,96</b>
Number of wires	mm	<b>78</b>
Nominal Area	mm <sup>2</sup>	<b>235</b>
Dimensions of copper tape	mmxmm	<b>10x0,1</b>
Approximate diameter over copper tape	mm	<b>76,4</b>

<b>1.7 Additional layer</b>		
Material	-	Semi-conducting swelling tape
Nominal Thickness		0,56
Approximate diameter over	mm	78,6
<b>1.8 Transversal Water Tightness</b>		
Material		PE laminated to metallic tape (aluminium)
Nominal Thickness		0,20
Approximate diameter over tape		79,0
<b>1.9 Outer Sheath</b>		
Material/Colour	-	HDPE(ST <sub>7</sub> )/Black
Nominal Thickness	mm	4,0
Minimum Thickness	mm	3,30
Approximate diameter over sheath	mm	88
Approximate Weight of cable	Kg/Km	12.160
<b>2. Electric Characteristics</b>		
<b>2.1 Working electrical stress</b>		
On the Conductor Screen	kV/mm	6,1
On the Insulation	kV/mm	3,3
<b>2.2 Máx. Resistance at 20°C</b>		
Conductor	Ω/Km	0,0283
Screen	Ω/Km	0,078
<b>2.3 Short-circuit current-carrying capacity (1 s)</b>		
Conductor	kA	90,1
Screen	kA	35,1
<b>2.4 Maximum conductor temperature</b>		
Continuous operation	°C	90
Short-circuit	°C	250

Cross Sectional Diagram:



Obs:

- Insulating material:

- Super Clean XLPE

- Insulating process:

- Triple simultaneous extrusion.

- Dry Cured/dry cooled with nitrogen in a CCV Line.