

Medium & High Voltage Cables	Units	Item1
<b>Product identification and Features</b>		
Cable code		0410311
Cable type		TSLE All ground
Standard		HD-620 10K
Nominal voltage	kV	12/20 (24)
N° of cores x C.S.A.	mm <sup>2</sup>	1 x 400
<b>Construction and Dimensions</b>		
<b>Conductor material</b>		
Shape		Aluminium
Class / Standard		Circular compacted
Nominal diameter	mm	2 / IEC 60228
W.B. conductor		22,80
Swellable semi-conducting tape over conductor		YES
<b>Conductor screen material</b>		
Extruded semi-conducting layer		
Nominal radial thickness	mm	NO
<b>Insulation material</b>		
XLPE		
Nominal radial thickness / Minimum at any point	mm	5,5 / --
Diameter over insulation	mm	34,8
<b>Insulation screen material (non metallic)</b>		
Extruded semi-conducting layer		
Nominal radial thickness	mm	0,4
Swellable semi-conducting tape under metallic screen		YES
<b>Insulation screen (metallic)</b>		
CWS		
N° of wires x Diameter	N x mm	32x0,862
C.S.A. (Cu wires)	mm <sup>2</sup>	18
Aluminium / Copolymer tape		YES
Nominal total C.S.A. (Cu wires + Aluminium/Copolymer tape)	mm <sup>2</sup>	35
<b>Outer sheath material (grooved layer)</b>		
MDPE		
Approximate radial thickness (up to the grooves's crest)	mm	5,0
Colour		BLACK
Overall diameter (single core)	mm	49,9
Overall diameter (bundle)	mm	N/A
Nominal total weight	kg/km	2500
Minimum bending radius (during/after installation)	mm	TBA
<b>Electrical Data</b>		
Maximum conductor DC resistance, at 20 °C	Ohm/km	0,0778
Star reactance per phase, at 50 Hz	Ohm/km	0,109
Capacitance per phase	µF/km	0,344
Charging current per phase, at U <sub>0</sub> , 50 Hz	A/km	1,511
Maximum permanent current rating (*)	A	703 / 577
Maximum conductor temperature in service / in short-circuit	°C	90 / 250
Maximum adiabatic short-circuit current rating (0.1/0.5/1.0 s)	kA	120 / 53,5 / 37,8

(\*) In air, at 25 °C / Buried, at 15 °C - 1,0 °K·m/W - 0,7 m

N/A = Not Applicable

Nominal values subject to the usual manufacturer tolerances

Signed by : R. Roig

Date : 13/03/2017