

Medium & High Voltage Cables	Units	Item1
Product identification and Features		
Cable code		12381K1NGPA
Cable type		TXSI
Standard		HD-620 10K
Nominal voltage	kV	12/20 (24)
N° of cores x C.S.A.	mm ²	1 x 25
Construction and Dimensions		
Conductor material		
Shape		Copper
Class / Standard		Circular
Nominal diameter	mm	2 / IEC 60228
W.B. conductor		5,80
Swellable semi-conducting tape over conductor		YES
Conductor screen material		
Nominal radial thickness	mm	Extruded semi-conducting layer
Insulation material		
Nominal radial thickness / Minimum at any point	mm	XLPE
Diameter over insulation	mm	5,5 / --
Insulation screen material (non metallic)		
Nominal radial thickness	mm	17,8
Swellable semi-conducting tape under metallic screen		Extruded semi-conducting layer
Insulation screen (metallic)		
N° of wires x Diameter	N x mm	0,4
C.S.A. (Cu wires)	mm ²	NO
W.B. metallic screen (swellable yarn)		YES
Swellable tape over metallic screen		NO
Aluminium / Copolymer tape		CWS
Outer sheath material		
Nominal radial thickness / Minimum at any point	mm	LSZH polyolefin
Colour		1,7 / --
SMC skin layer over outer sheath (0,3mm aprox)		BLACK + 2 Green stripes at 180°
Nominal overall diameter	mm	NO
Nominal total weight	kg/km	24,5
Minimum bending radius (after installation)	mm	845
Electrical Data		
Maximum conductor DC resistance, at 20 °C	Ohm/km	305
Star reactance per phase, at 50 Hz	Ohm/km	0,727
Capacitance per phase	µF/km	0,154
Charging current per phase, at U ₀ , 50 Hz	A/km	0,136
Maximum permanent current rating (*)	A	0,597
Maximum conductor temperature in service / in short-circuit	°C	174 / 169
Maximum adiabatic short-circuit current rating (0.1/0.5/1.0 s)	kA	90 / 250
		11,3 / 5,05 / 3,57

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

Signed by : R. Roig

Date : 18/11/2015

N/A = Not Applicable
Nominal values subject to the usual manufacturer tolerances