

| Medium & High Voltage Cables | Units | Item1 |
|--|-----------------|--------------------|
| Product identification and Features | | |
| Cable code | | 0410316 |
| Cable type | | TSLE All ground |
| Standard | | HD-620 10K |
| Nominal voltage | kV | 12/20 (24) |
| N° of cores x C.S.A. | mm ² | 3 x 1 x 50 |
| Construction and Dimensions | | |
| Conductor material | | |
| Shape | | Aluminium |
| Class / Standard | | Circular compacted |
| Nominal diameter | mm | 2 / IEC 60228 |
| W.B. conductor | | 7,85 |
| Swellable semi-conducting tape over conductor | | YES |
| Conductor screen material | | |
| Extruded semi-conducting layer | | |
| Nominal radial thickness | mm | NO |
| Insulation material | | |
| XLPE | | |
| Nominal radial thickness / Minimum at any point | mm | 5,5 / -- |
| Diameter over insulation | mm | 19,9 |
| Insulation screen material (non metallic) | | |
| Extruded semi-conducting layer | | |
| Nominal radial thickness | mm | 0,4 |
| Swellable semi-conducting tape under metallic screen | | YES |
| Insulation screen (metallic) | | |
| CWS | | |
| N° of wires x Diameter | N x mm | 20x0,862 |
| C.S.A. (Cu wires) | mm ² | 11 |
| Aluminium / Copolymer tape | | YES |
| Nominal total C.S.A. (Cu wires + Aluminium/Copolymer tape) | mm ² | 16 |
| Outer sheath material (grooved layer) | | |
| MDPE | | |
| Approximate radial thickness (up to the grooves's crest) | mm | 5,0 |
| Colour | | BLACK |
| Overall diameter (single core) | mm | 34,9 |
| Overall diameter (bundle) | mm | 75,4 |
| Nominal total weight | kg/km | 2960 |
| Minimum bending radius (during/after installation) | mm | TBA |
| Electrical Data | | |
| Maximum conductor DC resistance, at 20 °C | Ohm/km | 0,641 |
| Star reactance per phase, at 50 Hz | Ohm/km | 0,161 |
| Capacitance per phase | µF/km | 0,162 |
| Charging current per phase, at U ₀ , 50 Hz | A/km | 0,711 |
| Maximum permanent current rating (*) | A | 200 / 185 |
| 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 | 15 / 6,69 / 4,73 |

(*) 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