

## APPLICATION

Three single-core cables pre-assembled with steel messenger, for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages up to 18/30kV, Suitable for aerial installations.

## CABLE DESIGNATION

Al / XLPE / Cu Tape screen / PVC or PE + Messenger  
Al / XLPE / Cu Wire screen / PVC or PE + Messenger

## CONSTRUCTION CHARACTERISTICS

### Conductor

Aluminium conductor, circular, stranded, class 2 per IEC 60288.

### Insulation

Semi-conductive screen over the conductor. XLPE (cross-linked polyethylene) insulation and Semi-conductive screen over the insulation (strippable), applied by simultaneous extrusion in just one operation.

### Metallic Screen

**Copper wire screen** – annealed copper wires helically wound and an equalising copper tape applied in an open counter-helix. Cross-section area of screen according to client request.

A wrapping Poly Propylene tape is applied over the screen.

Or **Copper tape screen** – a copper tape, helically applied with overlap.

### Oversheath

Extruded PVC type ST2, or PE type ST7.



# MEDIUM VOLTAGE CABLES

Al - XLPE - Cu - PVC or PE

Three Core Bundle Cable

XLPE Insulation - With Messenger - IEC 60502-2 - HD 620-S2

## GENERAL CHARACTERISTICS

Construction and test standards	IEC 60228 IEC 60502-2 · HD 620 S2
Rated voltage $U_0/ U(U_m)$	3.6/6 (7.2) kV · 6/10 (12) kV · 8.7/15 (17.5) kV · 12/20 (24) kV · 18/30 (36) kV
Standard cross-section of wire screen (mm <sup>2</sup> )	16 · 25 · 35
Test voltage	3.5 x $U_0$
Conductor maximum operating temperature	90°C
Maximum short-circuit temperature	250°C (t ≤ 5s)
Minimum bending radius – during installation (mm)	12 x D
Minimum bending radius – after installation (mm)	9 x D
Maximum pulling force over conductor (N)	Copper – 50 x S Aluminium – 30 x S
Flame retardant (for PVC oversheath)	IEC 60332-1-2 · EN 60332-1-2 (cable vertically mounted, length of charred cable ≤ 540 mm).

s – conductor cross-section (mm<sup>2</sup>)

d – diameter over the three cores aprox. 2.16 x d

d-single core cable outer diameter (mm)