

APPLICATION

Cable for power distribution and power supply stations used in Utility and Industrial applications, for rated voltages up to 18/30kV. Suitable for fixed installations, indoor or outdoor, in open air on cable trays, or underground in ducts or directly buried.

CABLE DESIGNATION

Cu / XLPE / Cu Tape Screen / PE

Al / XLPE / Cu Tape Screen / PE

CONSTRUCTION CHARACTERISTICS

Conductor

Plain annealed Copper or Aluminium, circular, stranded, class 2 per IEC 60228.

Insulation

Semi-conductive screen over the conductor, XLPE (cross-linked polyethylene) insulation and semi-conductive screen over the insulation (strippable¹), applied by simultaneous extrusion in just one operation.

Metallic Screen

Copper tape, longitudinally applied over insulation. Cross-section area of tape in accordance with short circuit current.

Oversheath

Extruded PE

GENERAL CHARACTERISTICS

Construction and test standards	IEC 60228 IEC 60502-2
Rated voltage $U_0/ U(Um)$	3.6/6 (7.2) kV · 6/10 (12) kV · 8.7/15 (17.5) kV · 12/20 (24) kV · 18/30 (36) kV
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)	25 x d
Minimum bending radius – after installation (mm)	20 x d
Maximum pulling force over conductor (N)	Copper – 50 x S Aluminium – 30 x S

S – conductor cross-section (mm²)

d – cable outer diameter (mm)

Several compositions are available. contact info@fast-cables.com for information.

