

APPLICATION

Power supply for rated voltages up to 0.6/1kV in applications where electromagnetic protection is required.
For fixed installations, protected or not, in industrial areas, power plants, substations and buildings.

CABLE DESIGNATION

A: Cu / XLPE / Cu / PVC

B: Cu / XLPE / Cu / LSHF

CONSTRUCTION CHARACTERISTICS

Conductor

Copper (plain annealed): solid class 1, stranded class 2 or flexible class 5, circular.

Insulation

XLPE – (Cross-linked polyethylene).

Bedding /Inner Sheath

PVC – (Polyvinyl chloride) or LSHF – Low Smoke Halogen Free thermoplastic compound.

Screen (shield)

Corrugated copper tape with nominal thickness of 0.075 mm.

Optionally the copper tape can be helically applied with an overlap.

Oversheath

Extruded PVC (Polyvinyl chloride), LSHF – Low Smoke Halogen Free thermoplastic compound .Fire retardant.

GENERAL CHARACTERISTICS

Construction and test standards	IEC 60228 IEC 60502-1
Rated voltage U_0/U	0.6 / 1 kV
Test voltage	3.5 kV a.c. 5 minutes



GENERAL CHARACTERISTICS

Conductor maximum operating temperature	90°C
Maximum short-circuit temperature	250°C (t ≤ 5s)
Minimum bending radius (mm)	10 x d
Maximum pulling force over conductor (N)	Copper – 50 x S
Flame retardant	IEC 60332-1-2 · EN 60332-1-2 (cable vertically mounted, length of charred cable ≤ 540 mm)

CHARACTERISTICS

Fire retardant (frt)	IEC 60332-3-24 · EN 60332-3-24 (bunch of cables vertically mounted on a ladder, length of charred cable ≤ 2.5 m)
Halogen free (zh)	
Low smoke	IEC 61034-2 · EN 61034-2 (cable light transmittance ≥ 60%)
Low toxicity	IEC 60754-1 · EN 50267-2-1 (halogen acid gas content ≤ 0.5%)
Low corrosivity	IEC 60754-2 · EN 50267-2-3 (pH ≥ 4.3 · conductivity ≤ 10µS/mm)

ADDITIONAL CHARACTERISTICS

Fire retardant (frt)	IEC 60332-3-24 · EN 60332-3-24 (bunch of cables vertically mounted on a ladder, length of charred cable ≤ 2.5 m)
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S – conductor cross-section (mm²)
d – cable outer diameter (mm)

ELECTRICAL AND DIMENSIONAL CHARACTERISTICS

Cable composition n.º cond. x cross-section (mm ²)	Approximate outer diameter (mm)	Approximate weight (kg/km)
Cu / XLPE / Cu / PVC OR LSHF		
2x1.0	11.3	170
2x1.5	11.9	188
2x2.5	12.9	227
2x4.0	14.1	275
2x6.0	15.3	334
2x10	17.3	446
2x16	19.6	589
2x25	23.1	828
4x1.0	12.5	218
4x1.5	13.2	249
4x2.5	14.4	315
4x4.0	15.8	396
4x6.0	17.3	497
4x10	19.7	695
4x16	22.4	952
4x25	26.7	1385

Flex-Cu/XLPE/PVC OR LSHF/Cu-Tape/PVC OR LSHF