Telephone Cables Armoured and Non-Armoured
Smart grid
PE Insulation - Al Screen - PVC Sheath

APPLICATION

Cable with one quad, used for inside installations and used to transmit the readings for consumed and delivered energy to a remote unit.

CABLE DESIGNATION

A: Telephone Cable Armoured.
B: Telephone Cable Non-Armoured.

CONSTRUCTION CHARACTERISTICS

Conductor
Solid annealed copper, nominal diameter of 0.6 mm.

Insulation
PVC.

Arrangement (formation)
Star-quads.

Core wrapping
Dielectric tape, helically applied with an overlap.

Metallic screen
One aluminium/ polyester tape spirally applied, with an overlap, Under the metallic screen a tinned copper wire is longitudinally applied.

Inner sheath (jacket)
The armoured cables shall have a PVC inner sheath.

Armour
The armoured cables shall have a double steel tape armour/steel wire armour, helically applied.

Oversheath (jacket)
The cables shall have an oversheath of PVC.

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GENERAL AND ELECTRICAL CHARACTERISTICS (20°C)

Ohmic resistance at 20°C dc (Ω/km)	Minimum	120
	Maximum	133.2
Mutual capacitance at 50kHz (nF/km)	Minimum	80
	Maximum	130
Impedance characteristic at 50kHz (Ohm)	Minimum	75
	Maximum	115
Minimum insulation resistance at 20°C, 500Vdc		100 MΩ x km
Dielectric strength (Vac) (60s)	Cond-Cond	1500
	Cond-Screen	1500

DIMENSIONAL CHARACTERISTICS

(1) – Quad - PVC insulation • Al screen • PVC sheath – Telephone Cable non-arm.
(2) – Quad - PVC insulation • Al screen • PVC sheath • Armour • PVC sheath – Telephone Cable arm.

N.° of Quad	Non-Armoured (1)		Armoured (2)	
	Diameter (mm)	Weight (kg/km)	Diameter (mm)	Weight (kg/km)
1	5.3	40	10	140