

0.6/1kV CU/XLPE/AWA/PVC

SCOPE

This specification covers 0.6/1kV copper conductor, XLPE insulated, PVC inner covering, single layer of aluminum round wire armoured and PVC oversheathed cables for cathodic protection system.

APPLICATION STANDARDS

- IEC 60228 Conductors of insulated cables
 IEC 60502-1 Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV)
 Part 1: Cables for rated voltages of 1 kV (Um = 1,2 kV) and 3 kV (Um = 3.6 kV)

CONDUCTOR

The conductor shall consist of plain annealed copper wires, and shall be class 2 in accordance with IEC 60228.

INSULATION

The insulation shall be extruded with natural color of XLPE compound itself complying with IEC 60502-1.

INNER COVERING

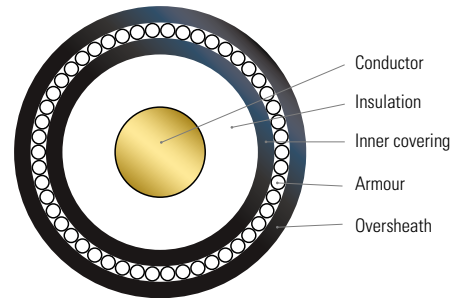
The inner covering shall be extruded with black PVC compound complying with IEC 60502-1.

ARMOUR

The armour shall consist of a single layer of aluminum wires, and the binder tape over the armour may be applied by manufacturer's option.

OVERSHEATH

The oversheath shall be extruded with black PVC/ST2 compound complying with IEC 60502-1



Conductor			Insulation Thickness (nom.)	Inner Covering Thickness (approx.)	Diameter of Aluminum Wire (nom.)	Oversheath Thickness (nom.)	Overall Diameter (approx.)	Net Weight (approx.)	Conductor Resistance at 20°C (max.)
Size	No of wire	Outer Dia.(approx.)							
mm ²	Nos.	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
16	7	4.7	0.7	1.0	1.6	1.8	17	410	1.15
25	7	5.9	0.9	1.0	1.6	1.8	19	540	0.727
35	7	6.9	0.9	1.0	1.6	1.8	20	660	0.524
50	7	8.1	1.0	1.0	1.6	1.8	22	816	0.387
70	19	9.8	1.1	1.0	1.6	1.8	24	1063	0.268
95	19	11.4	1.1	1.0	1.6	1.8	26	1356	0.193
120	19	12.9	1.2	1.0	1.6	1.8	28	1644	0.153