

0.6/1kV CU/XLPE/PVC & CU/XLPE/XLPE

SCOPE

This specification covers 0.6/1kV copper conductor, XLPE insulated and PVC or XLPE 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

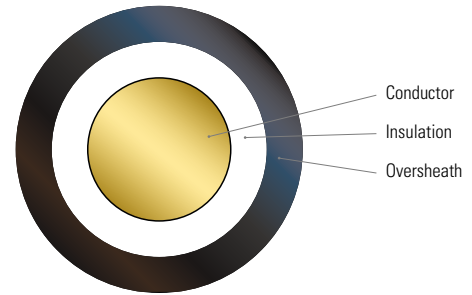
The conductor shall consist of plain annealed copper wires, and shall be class 2 in accordance with IEC 60228

INSULATION

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

OVERSHEATH

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



Conductor			Insulation Thickness (nom.)	Oversheath Thickness (nom.)	Overall Diameter (approx.)	Net Weight (approx.)		Conductor Resistance at 20°C (max.)
Size	No of wire	Outer Dia. (approx.)				XLPE/PVC	XLPE/XLPE	
mm ²	Nos.	mm	mm	mm	mm	kg/km	kg/km	Ω/km
10	7	4.05	0.7	1.4	10	158	140	1.83
16	7	4.7	0.7	1.4	10	212	190	1.15
25	7	5.9	0.9	1.4	12	316	290	0.727
35	7	6.9	0.9	1.4	13	415	380	0.524
50	7	8.1	1.0	1.4	15	544	510	0.387
70	19	9.8	1.1	1.4	17	759	710	0.268
95	19	11.4	1.1	1.5	19	1027	960	0.193
120	19	12.9	1.2	1.5	21	1279	1200	0.153