

## **APPLICATION**

These power cables are used for electricity supply in low voltage installation systems. They are well adapted to underground use in industrial applications with an additional mechanical protection. These cables can be fixed on cable trays, within conduits or fixed to walls.

### CONSTRUCTION

• Conductor: Aluminum, class 1 or class 2, solid or stranded, circular or circular compacted conductors

• Insulation: Cross-linked polyethylene XLPE

• Outer sheath: Polyvinyl chloride PVC

# **MAIN CHARACTERRISTICS**

Good electrical and mechanical properties. Cross-linked polyethylene insulation allows greater power capacity under any operating condition, minimum dielectric losses, high insulation resistance. The PVC outer sheath allows an adequate resistance to oil and abrasion.

### **SPECIFICATION**

IEC 60228 Conductors of Insulate Cables

IEC 60502-1 Power Cables with Extruded Insulation and Their Accessories for Rated Voltages from

1kV(Um=1.2kV) up to

30kV(Um=36kV) - Part 1: Cables for Rated Voltages of 1kV (Um=1.2kV) and 3kV(Um=3.6kV)

### **Parameter**

#### IEC 60502-1

No. of Cores and Nominal Cross Section	Min. Number of Wires	Nominal Insulation Thickness	Nominal	Approx.	Approx. Weight	Max. D.C. Resistance of Conductor
			Sheath Thickness	Overall Diameter		at 20℃
No. × mm2	No.	mm	mm	mm	kg/km	Ω/km
1×2.5	1	0.7	1.4	6	41	12.1
1×4	1	0.7	1.4	6.4	49	7.41
1×6	1	0.7	1.4	6.9	59	4.61
1×10	6	0.7	1.4	8.2	77	3.08
1×16	6	0.7	1.4	9	101	1.91
1×25	6	0.9	1.4	10.6	143	1.2
1×35	6	0.9	1.4	11.6	177	0.868
1×50	6	1	1.4	13.1	224	0.641
1×70	12	1.1	1.4	14.8	300	0.443
1×95	15	1.1	1.5	16.8	394	0.32
1×120	15	1.2	1.5	18.4	476	0.253
1×150	15	1.4	1.6	20.5	587	0.206
1×185	30	1.6	1.6	22.5	717	0.164
1×240	30	1.7	1.7	25.2	918	0.125
1×300	30	1.8	1.8	27.8	1130	0.1
1×400	53	2	1.9	31.2	1431	0.0778
1×500	53	2.2	2	34.7	1794	0.0605
1×630	53	2.4	2.2	39.2	2292	0.0469