

CABLES

Type: XLPE / (AWA) SWA / PVC 0.6/1 kV

Document No.: 08-300-R2

Sheet: 1 of 1

German Cathodic Protection



SINGLE CORE (Cu/XLPE/AWA/PVC) Cables 0.6/1 kV



Conductors: Copper circular stranded
 Insulation: XLPE
 Armour: Aluminium wire
 Sheath/Jacket: PVC (Polyvinylchloride)
 Colour: Black
 Operating temperature: Maximum 90°C
 Short circuit temperature: Maximum 250°C
 Standard: Cables up to and including 120 mm²
 IEC 502 -1994
 All cables other conform generally to BS 5467 - 1997 and IEC 60502

Cores and Cross-sectional area	Thickness of Insulation	Thickness of Extruded Bedding	Thickness of Outer sheath	Diameter of Armour wire	Approx. Overall Diameter	DC Resistance at 20° C	Approx. Cable Weight
mm ²	mm	mm	mm	mm	mm	Ohm/km	kg/km
1 x 50	1.0	0.8	1.5	1.6	18.8	0.387	765
1 x 70	1.1	0.8	1.5	1.6	20.6	0.268	1000
1 x 95	1.1	0.8	1.6	1.6	22.7	0.193	1300
1 x 120	1.2	0.8	1.6	1.6	24.4	0.153	1560
1 x 150	1.4	1.0	1.7	1.6	26.8	0.124	1920
1 x 185	1.6	1.0	1.8	1.6	29.0	0.099	2300
1 x 240	1.7	1.0	1.8	1.6	31.7	0.075	2890
1 x 300	1.8	1.0	1.9	1.6	34.1	0.060	3530
1 x 400	2.0	1.2	2.0	2.0	38.8	0.047	4590
1 x 500	2.2	1.2	2.1	2.0	42.4	0.037	5660
1 x 630	2.4	1.2	2.2	2.0	48.6	0.028	7100

TWO CORE (Cu/XLPE/SWA/PVC) Cables 0.6/1 kV



Conductors: Copper circular stranded
 Insulation: XLPE
 Armour: Steel wire
 Sheath/Jacket: PVC (Polyvinylchloride)
 Colour: Black
 Operating temperature: Maximum 90°C
 Short circuit temperature: Maximum 250°C
 Standard: All cables conform to BS 5467 - 1997 and IEC 60502

Cores and Cross-sectional area	Thickness of Insulation	Thickness of Extruded Bedding	Thickness of Outer sheath	Diameter of Armour wire	Approx. Overall Diameter	DC Resistance at 20° C	Approx. Cable Weight
mm ²	mm	mm	mm	mm	mm	Ohm/km	kg/km
2 x 4	0.7	0.8	1.4	0.9	15.2	4.610	440
2 x 6	0.7	0.8	1.4	0.9	16.4	3.080	520
2 x 10	0.7	0.8	1.5	0.9	18.0	1.830	670
2 x 16	0.7	0.8	1.5	1.25	20.9	1.150	965
2 x 25	0.9	0.8	1.6	1.25	24.3	0.727	1310
2 x 35	0.9	1.0	1.7	1.6	27.8	0.524	1810
2 x 50	1.0	1.0	1.8	1.6	30.9	0.387	2070
2 x 70	1.1	1.0	1.9	2.0	34.7	0.268	2650
2 x 95	1.1	1.2	2.0	2.0	39.9	0.193	3640
2 x 120	1.2	1.2	2.1	2.0	43.5	0.153	4330
2 x 150	1.4	1.2	2.2	2.0	47.3	0.124	5140

THREE CORE (Cu/XLPE/SWA/PVC) Cables 0.6/1 kV



Conductors: Copper circular stranded
 Insulation: XLPE
 Armour: Steel wire
 Sheath/Jacket: PVC (Polyvinylchloride)
 Colour: Black
 Operating temperature: Maximum 90°C
 Short circuit temperature: Maximum 250°C
 Standard: All cables conform to BS 5467 - 1997 and IEC 60502

Cores and Cross-sectional area	Thickness of Insulation	Thickness of Extruded Bedding	Thickness of Outer sheath	Diameter of Armour wire	Approx. Overall Diameter	DC Resistance at 20° C	Approx. Cable Weight
mm ²	mm	mm	mm	mm	mm	Ohm/km	kg/km
3 x 2.5	0.7	0.8	1.4	0.9	14.8	7.410	415
3 x 4	0.7	0.8	1.4	0.9	15.9	4.610	490
3 x 6	0.7	0.8	1.4	0.9	17.2	3.080	580
3 x 10	0.7	0.8	1.5	1.25	19.6	1.830	850
3 x 16	0.7	0.8	1.6	1.25	22.2	1.150	1110
3 x 25	0.9	1.0	1.7	1.6	24.3	0.727	1520
3 x 35	0.9	1.0	1.8	1.6	26.9	0.524	1910
3 x 50	1.0	1.0	1.8	1.6	30.1	0.387	2400
3 x 70	1.1	1.0	1.9	1.6	32.8	0.268	3100
3 x 95	1.1	1.2	2.1	2.0	38.2	0.193	4310
3 x 120	1.2	1.2	2.2	2.0	41.8	0.153	5170

FOUR CORE (Cu/XLPE/SWA/PVC) Cables 0.6/1 kV



Conductors: Copper circular stranded
 Insulation: XLPE
 Armour: Steel wire
 Sheath/Jacket: PVC (Polyvinylchloride)
 Colour: Black
 Operating temperature: Maximum 90°C
 Short circuit temperature: Maximum 250°C
 Standard: All cables conform to BS 5467 - 1997 and IEC 60502

Cores and Cross-sectional area	Thickness of Insulation	Thickness of Extruded Bedding	Thickness of Outer sheath	Diameter of Armour wire	Approx. Overall Diameter	DC Resistance at 20° C	Approx. Cable Weight
mm ²	mm	mm	mm	mm	mm	Ohm/km	kg/km
4 x 2.5	0.7	0.8	1.4	0.9	15.8	7.410	470
4 x 4	0.7	0.8	1.4	0.9	17.0	4.610	570
4 x 6	0.7	0.8	1.5	1.25	18.3	3.080	790
4 x 10	0.7	0.8	1.5	1.25	21.0	1.830	1020
4 x 16	0.7	0.8	1.6	1.25	23.9	1.150	1350
4 x 25	0.9	1.0	1.7	1.6	26.4	0.727	1850
4 x 35	0.9	1.0	1.8	1.6	30.0	0.524	2360
4 x 50	1.0	1.0	1.9	1.6	33.1	0.387	2970
4 x 70	1.1	1.2	2.1	2.0	38.1	0.268	4190
4 x 95	1.1	1.2	2.2	2.0	42.3	0.193	5370
4 x 120	1.2	1.4	2.3	2.5	47.1	0.153	6910