NA2XSYBY

AL/SC/ XLPE/ SC/ SCT/ CWS/ PVC/ ATA/ PVC - 18/30 (36) kV Cable

CABLE STANDARDS

IEC 60502-2 , ISIRI 3569-2 , IEC 60228, IEC 60332-1-2

APPLICATION

To be laid directly in ground, outdoors, indoors and in cable ducts. Medium voltage cables for distribution networks, also for connection to generation units and and where mechanical plant and process connection .damages are not to be expected

CONSTRUCTION

Conductor

Class 2 stranded aluminum conductor

Inner Semi-Conductive Layer

Semi-conductive material

Insulation

XLPE (Cross-Linked Polyethylene)

Outer Semi-Conductive Layer

Semi-conductive material

Screen

Copper wires with copper tape

Bedding

PVC (Polyvinyl Chloride)

Armour

Aluminum Tape

Sheath

PVC (Polyvinyl Chloride)

CHARACTERISTICS

Voltage Rating (U0.U) (Um)

18/30 (36) kV

Test Voltage

63 KV

Temperature Rating

-20°C to +90°C

Short Circuit Temperature

+250°C

Minimum Bending Radius

15 x Overall Diameter

Sheath Color

Red

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Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conductor Resistance at 20◦C Ω.km	Short-circuit Current KA 1.sec Approx	CURRENT CARRYING CAPACITY Amps Approx				Capacitance µf.km Approx	Reactance Ω.km Approx		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
	Conductor mm²	Screen mm²			Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
1	25	16	1.20	2.5	119	124	137	148	0.19	0.17	0.25	35.6	1331
1	35	16	0.868	3.4	144	151	164	178	0.21	0.17	0.24	36.6	1408
1	50	16	0.641	4.9	171	181	194	215	0.23	0.16	0.23	37.8	1510
1	70	16	0.443	6.8	209	226	236	269	0.27	0.15	0.23	39.5	1645
1	95	16	0.320	9.2	249	275	281	327	0.31	0.14	0.22	41.4	1819
1	120	25	0.253	11.6	283	317	318	377	0.34	0.14	0.21	43.1	1983
1	150	25	0.206	14.5	316	359	350	424	0.37	0.13	0.21	44.9	2226
1	185	25	0.164	17.8	358	412	393	458	0.40	0.13	0.20	46.9	2436
1	240	25	0.125	23.1	416	489	453	573	0.37	0.12	0.20	49.6	2753
1	300	35	0.100	28.8	469	559	507	652	0.50	0.12	0.20	51.7	3018
1	400	35	0.0778	38.3	532	651	559	741	0.57	0.11	0.19	55.8	3632
1	500	35	0.0605	47.8	599	744	622	838	0.62	0.11	0.19	58.9	4071
1	630	35	0.0469	60.2	669	843	703	945	0.65	0.11	0.18	63.2	4727

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