

N2XSYBY

CU/SC/ XLPE/ SC/ SCT/ CWS/ PVC/ ATA/ PVC - 6/10(12) 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 also for places where plant and process connection ..there are mechanical stresses

CONSTRUCTION

Conductor

Class 2 stranded copper 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)

6/10 (12) kV

Test Voltage

21 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 $\Omega.km$	Short-circuit Current KA 1.sec Approx	CURRENT CARRYING CAPACITY Amps Approx				Capacitance $\mu.f.km$ Approx	Reactance $\Omega.km$ Approx		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
	Conductor mm^2	Screen mm^2			Trefoil		Flat			Trefoil	Flat		
			Ground	Air	Ground	Air							
1	25	16	0.727	3.72	157	162	179	191	0.16	0.16	0.23	25.6	957
1	35	16	0.524	5.18	187	195	212	231	0.18	0.15	0.22	26.7	1082
1	50	16	0.387	7.36	220	234	249	277	0.19	0.14	0.22	27.7	1215
1	70	16	0.268	10.26	269	292	303	345	0.22	0.13	0.21	29.6	1472
1	95	16	0.193	13.88	321	354	358	418	0.25	0.13	0.20	31.4	1773
1	120	16	0.153	17.49	364	407	404	481	0.28	0.12	0.20	32.9	2040
1	150	25	0.124	21.82	405	460	441	537	0.30	0.12	0.19	34.8	2434
1	185	25	0.0991	26.87	457	527	493	612	0.33	0.11	0.19	36.5	2808
1	240	25	0.0754	34.80	528	621	563	716	0.37	0.11	0.19	39.0	3409
1	300	25	0.0601	43.43	593	709	626	811	0.40	0.10	0.18	41.3	4036
1	400	35	0.0470	57.82	665	815	676	901	0.45	0.10	0.18	44.9	5017
1	500	35	0.0366	72.20	739	921	743	1006	0.51	0.10	0.17	48.7	6142
1	630	35	0.0283	90.88	815	1028	805	1131	0.56	0.09	0.17	54.6	7769