

**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 (U<sub>0</sub>,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

# N2XSYBY

## CU/SC/ XLPE/ SC/ SCT/ CWS/ PVC/ ATA/ PVC – 18/30 (36) kV Cable

### 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	135	138	150	141	0.10	0.18	0.25	35.4	1475
1	35	16	0.524	5.18	180	188	201	210	0.11	0.17	0.24	36.5	1617
1	50	16	0.387	7.36	226	241	251	279	0.12	0.16	0.24	37.7	1783
1	70	16	0.268	10.26	276	299	306	348	0.13	0.15	0.23	39.4	2051
1	95	16	0.193	13.88	329	362	363	421	0.15	0.14	0.22	41.2	2383
1	120	16	0.153	17.49	373	416	410	483	0.16	0.14	0.21	42.9	2692
1	150	25	0.124	21.82	415	469	449	540	0.17	0.13	0.21	44.8	3114
1	185	25	0.0991	26.87	468	536	503	615	0.19	0.13	0.20	46.7	3535
1	240	25	0.0754	34.80	541	630	576	718	0.21	0.12	0.20	49.2	4179
1	300	25	0.0601	43.43	608	717	641	812	0.22	0.12	0.20	51.5	4844
1	400	35	0.0470	57.82	684	823	697	904	0.25	0.11	0.19	55.1	5883
1	500	35	0.0366	72.20	762	929	768	1011	0.27	0.11	0.19	59.1	7099
1	630	35	0.0283	90.88	842	1039	849	1121	0.30	0.11	0.18	65.0	8828