

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 copper conductor

Inner Semi-Conductive Layer

Semi-conductive material

Insulation

XLPE (Cross-Linked Polyethylene)

Outer Semi-Conductive Layer

Semi-conductive material

Bedding

PVC (Polyvinyl Chloride)

Armour

Aluminum Tape

Screen

Copper wires with copper tape

Sheath

PVC (Polyvinyl Chloride)

CHARACTERISTICS

Voltage Rating (U₀,U) (Um)

12/20 (24) kV

Test Voltage

42 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 – 12/20 (24) kV Cable

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 mm ²	Screen mm ²			Trefoil		Flat			Trefoil	Flat		
			Ground	Air	Ground	Air							
1	25	16	0.727	3.72	156	163	180	175	0.12	0.17	0.24	30.0	1170
1	35	16	0.524	5.18	189	199	213	233	0.14	0.16	0.23	31.3	1317
1	50	16	0.387	7.36	203	239	250	279	0.15	0.15	0.23	32.3	1457
1	70	16	0.268	10.26	273	296	304	347	0.17	0.14	0.22	34.0	1711
1	95	16	0.193	13.88	325	358	361	420	0.19	0.13	0.21	35.8	2026
1	120	16	0.153	17.49	368	412	407	483	0.20	0.13	0.20	37.5	2320
1	150	25	0.124	21.82	410	466	445	540	0.22	0.12	0.20	39.2	2709
1	185	25	0.0991	26.87	463	532	495	614	0.24	0.12	0.20	41.1	3113
1	240	25	0.0754	34.80	534	627	569	718	0.26	0.12	0.19	43.8	3754
1	300	25	0.0601	43.43	601	715	633	813	0.29	0.11	0.19	45.9	4377
1	400	35	0.0470	57.82	674	819	686	903	0.32	0.11	0.18	49.7	5408
1	500	35	0.0366	72.20	750	927	756	1011	0.36	0.10	0.18	53.5	6563
1	630	35	0.0283	90.88	189	199	213	233	0.40	0.10	0.18	59.4	8237