

**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

**Bedding**

PVC (Polyvinyl Chloride)

**Armour**

Aluminum Wire

**Screen**

Copper wires with copper tape

**Sheath**

PVC (Polyvinyl Chloride)

**CHARACTERISTICS**

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

# N2XSYRY

## CU/SC/ XLPE/ SC/ SCT/ CWS/ PVC/ AWA/ 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 <sup>2</sup>	Screen mm <sup>2</sup>			Trefoil		Flat			Trefoil	Flat		
			Ground	Air	Ground	Air							
1	25	16	0.727	3.72	156	163	180	175	0.12	0.17	0.25	31.9	1537
1	35	16	0.524	5.18	189	199	213	233	0.14	0.16	0.24	33.8	1834
1	50	16	0.387	7.36	203	239	250	279	0.15	0.15	0.23	35.0	1716
1	70	16	0.268	10.26	273	296	304	347	0.17	0.14	0.22	36.6	1979
1	95	16	0.193	13.88	325	358	361	420	0.19	0.14	0.21	38.2	2310
1	120	16	0.153	17.49	368	412	407	483	0.20	0.13	0.21	40.0	2599
1	150	25	0.124	21.82	410	466	445	540	0.22	0.13	0.21	41.9	3015
1	185	25	0.0991	26.87	463	532	495	614	0.24	0.12	0.20	43.7	3438
1	240	25	0.0754	34.80	534	627	569	718	0.26	0.12	0.20	47.2	4245
1	300	25	0.0601	43.43	601	715	633	813	0.29	0.12	0.19	49.2	4885
1	400	35	0.0470	57.82	674	819	686	903	0.32	0.11	0.19	53.4	5959
1	500	35	0.0366	72.20	750	927	756	1011	0.36	0.11	0.18	56.9	7149
1	630	35	0.0283	90.88	189	199	213	233	0.40	0.10	0.18	63.4	8969