

N2XYBY

CU/XLPE/ PVC /STA/ PVC - 0.6/1 kV Cable

CABLE STANDARDS

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



APPLICATION

N2XYBY is used as a power cable for energy supply in static installations, indoors, outdoors, underground and in concrete and also for places where there are mechanical stresses.

CONSTRUCTION

Conductor

Class 2 stranded copper conductors

Insulation

XLPE (Cross-linked polyethylene)

Bedding

PVC (Polyvinyl Chloride)

Armour

Single Core: Aluminum Tape

Multi Core: Steel (Galvanized) Tape

Sheath

PVC (Polyvinyl Chloride)

CHARACTERISTICS

Voltage Rating (U₀,U) (Um)

0.6/1 (1.2) kV

Test Voltage

8.4 KV

Temperature Rating

-20°C to +90°C

Short Circuit Temperature

+250°C

Minimum Bending Radius

12 x Overall Diameter **for Multi Core**

15 x Overall Diameter **for Single Core**

Sheath Color

Black

N2XYBY

CU/XLPE/ PVC /ATA/ PVC - 0.6/1 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				Capacitance μf.km Approx	Reactance		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps Approx					Ω.km Approx			
	Conductor mm²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
1	16	RM.V	1.15	2.41	115	102	139	128	0.51	0.12	0.20	11.97	284
1	25	RM.V	0.727	3.73	149	139	179	173	0.50	0.11	0.19	13.17	382
1	35	RM.V	0.524	5.19	178	170	213	212	0.58	0.11	0.19	14.87	504
1	50	RM.V	0.387	7.37	211	208	251	258	0.60	0.11	0.18	16.34	637
1	70	RM.V	0.268	10.27	259	265	307	328	0.65	0.10	0.18	18.1	857
1	95	RM.V	0.193	13.88	310	326	366	404	0.76	0.10	0.17	20.2	1133
1	120	RM.V	0.153	17.50	352	381	416	471	0.78	0.09	0.17	22.1	1398
1	150	RM.V	0.124	21.83	396	438	465	541	0.75	0.09	0.17	23.9	1684
1	185	RM.V	0.0991	26.87	449	507	526	626	0.73	0.09	0.17	26.4	2074
1	240	RM.V	0.0754	34.80	521	606	610	749	0.79	0.09	0.17	29.1	2647
1	300	RM.V	0.0601	43.44	587	697	689	864	0.83	0.09	0.17	31.8	3265
1	400	RM.V	0.0470	57.83	669	816	788	1018	0.86	0.09	0.16	35.3	4118
1	500	RM.V	0.0366	72.20	748	933	889	1173	0.89	0.08	0.16	39.5	5218
1	630	RM.V	0.0283	90.88	830	1050	1002	1350	0.96	0.08	0.16	45.3	6755

N2XYBY

CU/XLPE/ PVC /STA/ PVC - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C Ω.km	Short- circuit Curre nt KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance μf.km Approx	Reactance		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps Approx		Ω.km Approx			Trefoil	Flat		
	Conductor mm ²				Trefoil		Flat						
	Ground	Air			Ground	Air	Trefoil	Flat					
2	1.5	RM	12.1	0.26	32	25	39	28	0.21	0.15	0.23	11.49	212
2	2.5	RM	7.41	0.41	43	34	51	42	0.25	0.14	0.22	12.35	253
2	4	RM	4.61	0.64	55	44	66	56	0.31	0.13	0.21	13.76	325
2	6	RM	3.08	0.94	68	57	82	71	0.36	0.12	0.20	14.84	394
2	10	RM	1.83	1.53	90	77	109	96	0.45	0.11	0.19	16.76	532

N2XYBY

CU/XLPE/ PVC /STA/ PVC - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C Ω.km	Short- circuit Curre nt KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance μf.km Approx	Reactance		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps Approx					Ω.km Approx			
	Conductor mm ²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
3	1.5	RM	12.1	0.26	32	25	-	-	0.21	0.15	-	12.0	236
3	2.5	RM	7.41	0.41	43	34	-	-	0.25	0.14	-	12.9	286
3	4	RM	4.61	0.64	55	44	-	-	0.31	0.13	-	14.4	373
3	6	RM	3.08	0.94	68	57	-	-	0.36	0.12	-	15.6	462
3	10	RM	1.83	1.53	90	77	-	-	0.45	0.11	-	17.6	637
3	16	RM.V	1.15	2.41	115	102	-	-	0.51	0.10	-	19.17	836
3	25	RM.V	0.727	3.73	149	139	-	-	0.50	0.10	-	22.63	1201
3	35	RM.V	0.524	5.19	178	170	-	-	0.58	0.10	-	25.20	1556
3	50	SM	0.387	7.37	211	208	-	-	0.60	0.09	-	26.5	1797
3	70	SM	0.268	10.27	259	265	-	-	0.65	0.09	-	30.8	2500
3	95	SM	0.193	13.88	310	326	-	-	0.76	0.09	-	34.3	3287
3	120	SM	0.153	17.50	352	381	-	-	0.78	0.09	-	39.0	4444
3	150	SM	0.124	21.83	396	438	-	-	0.75	0.09	-	43.3	5411
3	185	SM	0.0991	26.87	449	507	-	-	0.73	0.09	-	47.9	6639
3	240	SM	0.0754	34.80	521	606	-	-	0.79	0.09	-	53.8	8484
3	300	SM	0.0601	43.44	587	697	-	-	0.83	0.08	-	59.1	10418

N2XYBY

CU/XLPE/ PVC /STA/ PVC - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C Ω.km	Short- circuit Current KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance μf.km Approx	Reactance		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps Approx					Ω.km Approx			
	Conductor mm ²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
3+1	25+16	RM.V	0.727	0.26	111	100	-	-	0.50	0.10	-	23.9	1373
3+1	35+16	RM.V	0.524	0.41	132	122	-	-	0.58	0.10	-	25.9	1698
3+1	50+25	SM	0.387	0.64	157	147	-	-	0.60	0.09	-	28.4	2076
3+1	70+35	SM	0.268	0.94	195	189	-	-	0.65	0.09	-	32.6	2855
3+1	95+50	SM	0.193	1.53	233	232	-	-	0.76	0.09	-	38.1	4176
3+1	120+70	SM	0.153	2.41	266	270	-	-	0.78	0.09	-	41.9	5201
3+1	150+70	SM	0.124	3.73	299	308	-	-	0.75	0.09	-	46.3	6160
3+1	185+95	SM	0.0991	5.19	340	357	-	-	0.73	0.09	-	51.6	7653
3+1	240+120	SM	0.0754	7.37	401	435	-	-	0.79	0.08	-	57.6	9733
3+1	300+150	SM	0.0601	10.27	455	501	-	-	0.83	0.08	-	63.4	11948

N2XYBY

CU/XLPE/ PVC /STA/ PVC - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C Ω.km	Short- circuit Curre nt KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance μf.km Approx	Reactance		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
	Conductor mm ²				Amps Approx					Ω.km Approx			
					Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
4	1.5	RM	12.1	0.26	30	24	-	-	0.21	0.15	-	12.8	270
4	2.5	RM	7.41	0.41	40	32	-	-	0.25	0.14	-	14.0	339
4	4	RM	4.61	0.64	52	42	-	-	0.31	0.13	-	15.5	437
4	6	RM	3.08	0.94	64	53	-	-	0.36	0.12	-	16.8	546
4	10	RM	1.83	1.53	86	73	-	-	0.45	0.11	-	19.3	775
4	16	RM.V	1.15	2.41	111	96	-	-	0.51	0.10	-	20.8	1018
4	25	RM.V	0.727	3.73	143	130	-	-	0.50	0.10	-	24.9	1488
4	35	RM.V	0.524	5.19	173	160	-	-	0.58	0.09	-	27.7	1937
4	50	SM	0.387	7.37	205	195	-	-	0.60	0.09	-	31.4	2540
4	70	SM	0.268	10.27	252	247	-	-	0.65	0.09	-	36.9	3816
4	95	SM	0.193	13.88	303	305	-	-	0.76	0.09	-	42.0	5039
4	120	SM	0.153	17.50	346	355	-	-	0.78	0.08	-	45.3	6079
4	150	SM	0.124	21.83	390	407	-	-	0.75	0.08	-	50.0	7392
4	185	SM	0.0991	26.87	441	469	-	-	0.73	0.08	-	55.4	9093
4	240	SM	0.0754	34.80	511	551	-	-	0.79	0.08	-	62.4	11647
4	300	SM	0.0601	43.44	580	638	-	-	0.83	0.08	-	68.8	14335

N2XYBY

CU/XLPE/ PVC /STA/ PVC - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C Ω.km	Short- circuit Curre nt KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance μf.km Approx	Reactance		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps Approx					Ω.km Approx			
	Conductor mm²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
5	1.5	RM	12.1	0.26	30	24	-	-	0.21	0.14	-	13.8	318.2
5	2.5	RM	7.41	0.41	40	32	-	-	0.25	0.13	-	15.0	393.8
5	4	RM	4.61	0.64	52	42	-	-	0.31	0.12	-	16.6	514.0
5	6	RM	3.08	0.94	64	53	-	-	0.36	0.11	-	18.1	649.1
5	10	RM	1.83	1.53	86	73	-	-	0.45	0.11	-	20.9	930.2
5	16	RM.V	1.15	2.41	111	96	-	-	0.51	0.10	-	22.5	1231
5	25	RM.V	0.727	3.73	143	130	-	-	0.50	0.10	-	27.0	1813
5	35	RM.V	0.524	5.19	173	160	-	-	0.58	0.09	-	30.4	2385