

NYRY

CU/PVC/ PVC/SWA/PVC – 0.6/1 kV Cable

CABLE STANDARDS

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



APPLICATION

NYRY 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 1 or 2 stranded copper conductors

Insulation

PVC (Polyvinyl Chloride)

Bedding

PVC (Polyvinyl Chloride)

Armour

Single Core: Aluminum Tape

Multi Core: Steel (Galvanized) Tape

Sheath

PVC (Polyvinyl Chloride)

CHARACTERISTICS

Voltage Rating (U_0/U) (Um)

0.6/1 (1.2) kV

Test Voltage

8.4 KV

Temperature Rating

-20°C to +70°C

Short Circuit Temperature

+160°C

Minimum Bending Radius

12 x Overall Diameter **for Multi Core**

15 x Overall Diameter **for Single Core**

Sheath Color

Black

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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					
1	16	RM.V	1.15	1.91	107	89	127	103	0.76	0.13	0.20	12.6	308
1	25	RM.V	0.727	2.96	137	118	163	137	0.79	0.12	0.20	14.4	429
1	35	RM.V	0.524	4.13	165	145	195	169	0.92	0.12	0.20	16.6	586
1	50	RM.V	0.387	5.87	195	176	230	206	0.90	0.11	0.19	18.1	730
1	70	RM.V	0.268	8.19	239	224	282	261	1.06	0.11	0.18	20.1	971
1	95	RM.V	0.193	11.09	287	271	336	321	1.09	0.11	0.18	23.1	1316
1	120	RM.V	0.153	13.99	326	314	382	374	1.22	0.10	0.18	24.8	1589
1	150	RM.V	0.124	17.46	366	361	428	428	1.21	0.10	0.18	26.8	1910
1	185	RM.V	0.0991	21.50	414	412	483	494	1.21	0.10	0.18	29.0	2310
1	240	RM.V	0.0754	27.86	481	484	561	590	1.26	0.10	0.17	31.9	2944
1	300	RM.V	0.0601	34.79	542	549	632	678	1.29	0.10	0.17	35.3	3675
1	400	RM.V	0.0470	46.34	624	657	730	817	1.35	0.09	0.17	39.1	4600
1	500	RM.V	0.0366	57.88	698	749	823	940	1.43	0.09	0.17	43.2	5767
1	630	RM.V	0.0283	72.87	165	145	195	169	1.67	0.09	0.17	49.6	7509

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					Amps Approx					Ω.km Approx			
	Conductor mm²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
2	1.5	RE	12.1	0.19	32	20	39	25	0.77	0.16	0.24	12.6	302
2	2.5	RE	7.41	0.32	43	27	51	34	0.42	0.15	0.23	13.3	348
2	4	RE	4.61	0.50	55	37	66	45	0.42	0.15	0.23	16.1	562
2	6	RE	3.08	0.73	68	48	82	57	0.49	0.14	0.22	17.1	641
2	10	RE	1.83	1.20	90	66	109	78	0.60	0.13	0.21	18.7	795
2	16	RM.V	1.15	1.91	107	89	127	103	0.76	0/16	0/24	22/0	1173
2	25	RM.V	0.727	2.96	137	118	163	137	0.79	0/15	0/23	25/2	1549
2	35	RM.V	0.524	4.13	165	145	195	169	0.92	0/15	0/23	27/8	1910

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	Conductor mm²				Amps					Ω.km	Trefoil			Flat
					Approx									
					Trefoil		Flat							
Ground	Air	Ground	Air											
3	1.5	RE	12.1	0.19	32	25	-	-	0.77	0.16	-	13.1	334	
3	2.5	RE	7.41	0.32	43	34	-	-	0.42	0.15	-	13.9	389	
3	4	RE	4.61	0.50	55	44	-	-	0.42	0.15	-	16.8	632	
3	6	RE	3.08	0.73	68	57	-	-	0.49	0.14	-	17.9	729	
3	10	RE	1.83	1.20	90	77	-	-	0.60	0.13	-	19.6	919	
3	16	RM.V	1.15	1.91	107	89	-	-	0.76	0.12	-	23.0	1368	
3	25	RM.V	0.727	2.96	137	118	-	-	0.79	0.11	-	26.7	1854	
3	35	RM.V	0.524	4.13	165	145	-	-	0.92	0.11	-	29.3	2274	
3	50	SM	0.387	5.87	195	176	-	-	0.90	0.10	-	31.3	2620	
3	70	SM	0.268	8.19	239	224	-	-	1.06	0.10	-	35.7	3631	
3	95	SM	0.193	11.09	287	271	-	-	1.09	0.10	-	40.5	4670	
3	120	SM	0.153	13.99	326	314	-	-	1.22	0.09	-	43.4	5518	
3	150	SM	0.124	17.46	366	361	-	-	1.21	0.10	-	48.5	7023	
3	185	SM	0.0991	21.50	414	412	-	-	1.21	0.09	-	53.3	8454	
3	240	SM	0.0754	27.86	481	484	-	-	1.26	0.09	-	59.8	10659	
3	300	SM	0.0601	34.79	542	549	-	-	1.29	0.09	-	66.0	13125	

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	Conductor mm²				Amps Approx					Ω.km Approx			
					Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
3+1	25+16	RM.V	0.727	2.96	128	106	-	-	0.79	0.11	-	28.1	2070
3+1	35+16	RM.V	0.524	4.13	157	131	-	-	0.92	0.10	-	30.1	2460
3+1	50+25	SM	0.387	5.87	185	159	-	-	0.90	0.10	-	34.1	3189
3+1	70+35	SM	0.268	8.19	228	202	-	-	1.06	0.10	-	37.7	4067
3+1	95+50	SM	0.193	11.09	275	244	-	-	1.09	0.10	-	42.7	5280
3+1	120+70	SM	0.153	13.99	313	282	-	-	1.22	0.09	-	47.3	6778
3+1	150+70	SM	0.124	17.46	353	324	-	-	1.21	0.09	-	51.7	7911
3+1	185+95	SM	0.0991	21.50	399	371	-	-	1.21	0.09	-	57.4	9671
3+1	240+120	SM	0.0754	27.86	464	436	-	-	1.26	0.09	-	64.7	12384
3+1	300+150	SM	0.0601	34.79	524	481	-	-	1.29	0.09	-	71.0	15160

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	Conductor mm²				Amps					Ω.km Approx	Trefoil			Flat
					Approx									
					Trefoil		Flat							
Ground	Air	Ground	Air											
4	1.5	RE	12.1	0.19	26	18.5	-	-	0.77	0.16	-	13.9	377	
4	2.5	RE	7.41	0.32	34	25	-	-	0.42	0.15	-	14.9	453	
4	4	RE	4.61	0.50	44	34	-	-	0.42	0.14	-	18.0	715	
4	6	RE	3.08	0.73	56	43	-	-	0.49	0.13	-	19.1	842	
4	10	RE	1.83	1.20	75	60	-	-	0.60	0.13	-	21.9	1211	
4	16	RM.V	1.15	1.91	98	80	-	-	0.76	0.11	-	24.8	1624	
4	25	RM.V	0.727	2.96	128	106	-	-	0.79	0.11	-	29.1	2220	
4	35	RM.V	0.524	4.13	157	131	-	-	0.92	0.11	-	33.0	2989	
4	50	SM	0.387	5.87	185	159	-	-	0.90	0.10	-	35.0	3485	
4	70	SM	0.268	8.19	228	202	-	-	1.06	0.10	-	39.1	4520	
4	95	SM	0.193	11.09	275	244	-	-	1.09	0.10	-	45.3	6224	
4	120	SM	0.153	13.99	313	282	-	-	1.22	0.09	-	48.7	7369	
4	150	SM	0.124	17.46	353	324	-	-	1.21	0.09	-	53.4	8808	
4	185	SM	0.0991	21.50	399	371	-	-	1.21	0.09	-	58.7	10664	
4	240	SM	0.0754	27.86	464	436	-	-	1.26	0.09	-	66.5	13879	
4	300	SM	0.0601	34.79	524	481	-	-	1.29	0.09	-	73.7	17133	

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	Conductor mm²				Amps Approx					Ω.km Approx			
					Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
5	1.5	RE	12.1	0.26	26	18.5	-	-	0.77	0.15	-	14.9	439
5	2.5	RE	7.41	0.41	34	25	-	-	0.42	0.15	-	16.8	635
5	4	RE	4.61	0.64	44	34	-	-	0.42	0.14	-	19.2	822
5	6	RE	3.08	0.94	56	43	-	-	0.49	0.13	-	20.7	992
5	10	RE	1.83	1.53	75	60	-	-	0.60	0.13	-	23.5	1408
5	16	RM.V	1.15	2.41	98	80	-	-	0.76	0.11	-	26.9	1909
5	25	RM.V	0.727	3.73	128	106	-	-	0.79	0.11	-	31.8	2673
5	35	RM.V	0.524	5.19	157	131	-	-	0.92	0.10	-	35.8	3563