

NYY

CU/PVC/ PVC - 0.6/1 kV Cable

CABLE STANDARDS

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



APPLICATION

NYY is used as a power cable for energy supply in static installations, indoors, outdoors, underground and in concrete where mechanical damages are not to be expected.

CONSTRUCTION

Conductor

Class 5 stranded copper conductors

Insulation

PVC (Polyvinyl Chloride)

Filler

PVC

PET

Polyester 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

Fixed: -20°C to +70°C

Flexed: -5°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 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
	Conductor mm²				Amps Approx					Ω.km Approx			
					Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
1	6	RM.F	3.30	0.69	68	48	82	57	0.67	0.12	0.20	7.1	97
1	10	RM.F	1.91	1.15	90	66	109	78	0.67	0.12	0.19	8.5	149
1	16	RM.F	1.21	1.84	107	89	127	103	0.86	0.10	0.18	9.9	222
1	25	RM.F	0.780	2.87	137	118	163	137	0.89	0.10	0.17	11.6	326
1	35	RM.F	0.554	4.02	165	145	195	169	1.04	0.09	0.17	12.9	426
1	50	RM.F	0.386	5.75	195	176	230	206	1.07	0.09	0.17	15.0	593
1	70	RM.F	0.272	8.05	239	224	282	261	1.24	0.09	0.16	17.0	763
1	95	RM.F	0.206	10.92	287	271	336	321	1.29	0.08	0.16	19.7	1048
1	120	RM.F	0.161	13.8	326	314	382	374	1.42	0.08	0.16	21.2	1272
1	150	RM.F	0.129	17.25	366	361	428	428	1.41	0.08	0.16	23.6	1573
1	185	RM.F	0.106	21.27	414	412	483	494	1.40	0.08	0.16	25.9	1895
1	240	RM.F	0.0801	27.60	481	484	561	590	1.46	0.08	0.16	29.3	2480

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					Amps Approx		Amps Approx			Trefoil	Flat		
	Conductor mm ²				Ground	Air	Ground	Air					
2	25	RM.F	0.780	2.87	137	118	163	137	0.89	0.14	0.22	23.7	1060
2	35	RM.F	0.554	4.02	165	145	195	169	1.04	0.14	0.21	26.3	1363
2	50	RM.F	0.386	5.75	195	176	230	206	1.07	0.13	0.21	31.0	1876
2	70	RM.F	0.272	8.05	239	224	282	261	1.24	0.13	0.21	35.0	2455
2	95	RM.F	0.206	10.92	287	271	336	321	1.29	0.13	0.21	40.6	3348

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					Amps Approx		Trefoil	Flat		Trefoil	Flat		
	Conductor mm ²				Ground	Air		Ground					
3	25	RM.F	0.780	2.87	137	118	-	-	0.89	0.15	-	25.2	1307
3	35	RM.F	0.554	4.02	165	145	-	-	1.04	0.14	-	28.2	1699
3	50	RM.F	0.386	5.75	195	176	-	-	1.07	0.14	-	33.1	2315
3	70	RM.F	0.272	8.05	239	224	-	-	1.24	0.14	-	37.7	3082
3	95	RM.F	0.206	10.92	287	271	-	-	1.29	0.13	-	43.5	4183

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					Amps Approx					Ω.km Approx			
	Conductor mm ²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
3+1	25+16	RM.F	0.780	2.87	128	106	-	-	0.89	0.15	-	26.5	1471
3+1	35+16	RM.F	0.554	4.02	157	131	-	-	1.04	0.14	-	29.1	1838
3+1	50+25	RM.F	0.386	5.75	185	159	-	-	1.07	0.14	-	34.7	2586
3+1	70+35	RM.F	0.272	8.05	228	202	-	-	1.24	0.14	-	38.9	3382
3+1	95+50	RM.F	0.206	10.92	275	244	-	-	1.29	0.14	-	45.1	4619
3+1	120+70	RM.F	0.161	13.8	313	282	-	-	1.42	0.14	-	50.0	6112
3+1	150+70	RM.F	0.129	17.25	353	324	-	-	1.41	0.13	-	54.2	7174
3+1	185+95	RM.F	0.106	21.27	399	371	-	-	1.40	0.13	-	60.1	8893

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	Conductor mm^2				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
4	16	RM.F	1.21	1.84	98	80	-	-	0.86	0.15	-	21.4	951
4	25	RM.F	0.780	2.87	128	106	-	-	0.89	0.15	-	27.8	1618
4	35	RM.F	0.554	4.02	157	131	-	-	1.04	0.15	-	31.4	2127
4	50	RM.F	0.386	5.75	185	159	-	-	1.07	0.14	-	36.6	2881
4	70	RM.F	0.272	8.05	228	202	-	-	1.24	0.14	-	41.7	3905
4	95	RM.F	0.206	10.92	275	244	-	-	1.29	0.14	-	48.3	5221

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					Amps Approx		Ω.km Approx			Trefoil	Flat		
	Conductor mm ²				Trefoil	Flat	Ground	Air					
5	16	RM.F	1.21	1.84	98	80	-	-	0.86	0.16	-	23.5	1181
5	25	RM.F	0.780	2.87	353	324	-	-	0.79	0.16	-	30.6	2002
5	35	RM.F	0.554	4.02	399	371	-	-	0.92	0.16	-	34.5	2625
5	50	RM.F	0.386	5.75	464	436	-	-	0.42	0.15	-	40.7	3694
5	70	RM.F	0.272	8.05	524	481	-	-	0.49	0.15	-	45.9	4742
5	95	RM.F	0.206	10.92	128	106	-	-	0.60	0.15	-	53.5	6515