NYY / NAYY

Single Core (Cu or Al/PVC/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

STANDARD

VDE 0271/3.69

VOLTAGE GRADE

U₀/U (Um) : 0.6/1.0 (1.2) kV
Permissible Service Voltage: 0.72/1.2 kV

COLOR

Insulated core : ■ (Black)
Sheath : ■ (Black or Other Colors available on request)

CONSTRUCTION

Conductor: Solid/ Stranded Circular/ Compacted, Plain annealed Copper or Aluminium, Class-1 or Class-2 to IEC 60228

Insulation: PVC, PVC/A to IEC 60502-1

Sheath: PVC, ST-1 to IEC 60502-1

PHYSICAL DATA							
Nominal cross sectional area of conductor	Shape of Conductor	No. ofstrands& diameter of wire Cu/Al	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
						Cu	Al
Core x mm²	-	nos./mm	mm	mm	mm	kg/km	kg/km
1 x 1.5	re	1/1.38	0.8	1.8	6.6	65	56
1 x 1.5	rm	7/0.52	0.8	1.8	6.8	68	58
1 x 2.5	re	1/1.78	0.8	1.8	7.2	80	69
1 x 2.5	rm	7/0.68	0.8	1.8	7.4	86	71
1 x 4	rm	7/0.85	1.0	1.8	8.2	113	88
1 x 6	rm	7/1.04	1.0	1.8	8.7	140	102
1 x 10	rm	7/1.35	1.0	1.8	9.7	190	126
1 x 16	rm	7/1.70	1.0	1.8	10.7	262	158
1 x 16	rm	19/1.04	1.0	1.8	11.0	268	160
1 x 25	rm	7/2.14	1.2	1.8	12.4	375	216
1 x 25	rm	19/1.30	1.2	1.8	12.8	385	220
1 x 35	rmc	min. 6	1.2	1.8	13.7	472	262
1 x 50	rmc	min. 6	1.4	1.8	15.6	610	342
1 x 70	rmc	min. 12	1.4	1.8	17.3	846	425
1 x 95	rmc	min. 15	1.6	1.8	19.4	1095	542
1 x 120	rmc	min. 18/15	1.6	1.8	21.0	1338	638
1 x 150	rmc	min. 18/15	1.8	1.8	23.1	1640	790
1 x 185	rmc	min. 30	2.0	2.0	25.6	2026	954
1 x 240	rmc	min. 34/30	2.2	2.0	28.6	2640	1194
1 x 300	rmc	min. 34/30	2.4	2.0	31.3	3250	1451
1 x 400	rmc	min. 53	2.6	2.2	35.3	4220	1880
1 x 500	rmc	min. 53	2.8	2.2	38.0	5283	2320
1 x 630	rmc	min. 53	2.8	2.2	42.0	6515	2775
1 x 800	rmc	min. 53	2.8	2.4	46.2	8162	3190
1 x 1000	rmc	min. 53	3.0	2.6	51.1	10285	3350

Characteristics

Flame Retardant · Lead free · Test 3.5kV · Rigid · Meter Marking

Installation condition

Industrial Use · Outdoor Installation · Open air · Buried · In Duct · In water

PARTEX Cables

NYY / NAYY

Single Core (Cu or Al/PVC/PVC)

APPLICATION

Power cables for energy supply are installed in open air, in **underground, in water, indoors, in cable ducts, power stations for industry and distribution boards as well as in subscriber** networks, where mechanical damages are not to be expected.

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VDE 0271/3.69

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CONSTRUCTION

Conductor: Solid/ Stranded Circular/ Compacted, Plain annealed Copper or Aluminium, Class-1 or Class-2 to IEC 60228

Insulation: PVC, PVC/A to IEC 60502-1

Sheath: PVC, ST-1 to IEC 60502-1

ELECTRICAL DATA											
Nominal cross sectional area of conductor	Shape of Conductor	Max. D.C resistance of conductor at 20 °C		Current Carrying Capacity in Ground at 30°C				Current Carrying Capacity in Air at 35°C			
				Copper		Aluminium		Copper		Aluminium	
		Copper	Aluminium	Direct laid	In duct	Direct laid	In duct	Open	In pipes	Open	In pipes
Core x mm^2	-	W/km	W/km	amp	amp	amp	amp	amp	amp	amp	amp
1 x 1.5	re	12.1	18.1	27	20	-	-	22	17	-	-
1 x 1.5	rm	12.1	18.1	27	20	-	-	22	17	-	-
1 x 2.5	re	7.41	12.1	36	30	-	-	30	23	-	-
1 x 2.5	rm	7.41	12.1	36	30	-	-	30	23	-	-
1 x 4	rm	4.61	7.41	47	36	37	29	39	29	31	23
1 x 6	rm	3.08	4.61	59	45	48	36	50	36	41	29
1 x 10	rm	1.83	3.08	78	60	60	46	69	50	53	38
1 x 16	rm	1.15	1.91	100	76	78	60	94	67	73	51
1 x 16	rm	1.15	1.91	100	76	78	60	94	67	73	51
1 x 25	rm	0.727	1.20	130	101	101	80	125	89	97	68
1 x 25	rm	0.727	1.20	130	101	101	90	125	89	97	68
1 x 35	rmc	0.524	0.868	155	119	120	93	160	114	124	87
1 x 50	rmc	0.387	0.641	185	144	144	114	195	138	151	105
1 x 70	rmc	0.268	0.443	225	175	175	138	245	171	190	130
1 x 95	rmc	0.193	0.320	270	211	210	167	300	204	232	153
1 x 120	rmc	0.153	0.253	310	243	240	190	350	242	272	184
1 x 150	rmc	0.124	0.206	350	275	270	216	405	280	314	212
1 x 185	rmc	0.0991	0.164	390	306	302	240	460	320	357	244
1 x 240	rmc	0.0754	0.125	450	351	349	275	555	386	430	292
1 x 300	rmc	0.0601	0.100	515	402	386	306	640	448	448	304
1 x 400	rmc	0.0470	0.0778	585	453	439	345	770	546	540	374
1 x 500	rmc	0.0366	0.0605	680	526	510	400	900	643	630	440
1 x 630	rmc	0.0283	0.0469	800	615	600	467	1030	740	721	510
1 x 800	rmc	0.0221	0.0367	945	724	708	550	1160	836	812	575
1 x 1000	rmc	0.0176	0.0291	1095	835	821	630	1310	949	917	655

Current ratings are valid for cables laid under defined conditions at page no. 165. For current ratings at deviated conditions, apply correction factor as given on page no. 165-17

Characteristics

Operating Temperature -30°C to 70°C · Maximum Short Circuit 250°C · Rigid · Meter Marking · Flame Retardant · Lead free · Test 3.5kV

Installation condition

Industrial Use · Outdoor Installation · Open air · Buried · In Duct · In water