

# 2xY/A2xY or N2xY / NA2xY

## Single Core (Cu or Al/XLPE/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

IEC 60502-1


DIN VDE 0276-603


### VOLTAGE GRADE

U<sub>0</sub>/U (Um) : 0.6/1.0 [1.2] kV

Permissible Service Voltage: 0.72/1.2 kV

### COLOR

Insulated core :  (Natural)

Sheath :  (Black or Other Colors available on request)

### CONSTRUCTION

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

**Insulation:** Cross-linked Polyethylene, XLPE to IEC 60502-1

**Sheath:** PVC, ST-2 to IEC 60502-1



### PHYSICAL DATA

Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire Cu/Al	Nominal thickness of insulation	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
						Cu	Al
Core x mm <sup>2</sup>	-	nos./mm	mm	mm	mm	kg/km	kg/km
1 x 1.5	re	1/1.38	0.7	1.4	6.1	50	-
1 x 1.5	rm	7/0.52	0.7	1.4	6.2	52	-
1 x 2.5	re	1/1.78	0.7	1.4	6.5	63	-
1 x 2.5	rm	7/0.68	0.7	1.4	6.6	65	-
1 x 4.0	rm	7/0.85	0.7	1.4	7.3	95	55
1 x 6.0	rm	7/1.04	0.7	1.4	7.9	107	66
1 x 10	rm	7/1.35	0.7	1.4	8.8	155	85
1 x 16	rm	7/1.70	0.7	1.4	9.9	227	112
1 x 25	rm	7/2.14	0.9	1.4	11.0	324	160
1 x 35	rmc	min. 6	0.9	1.4	12.1	425	200
1 x 50	rmc	min. 6	1.0	1.4	13.6	584	258
1 x 70	rmc	min. 12	1.1	1.4	15.4	788	335
1 x 95	rmc	min. 15	1.1	1.5	17.1	1041	430
1 x 120	rmc	min. 18/15	1.2	1.5	18.8	1292	531
1 x 150	rmc	min. 18/15	1.4	1.6	21.0	1611	640
1 x 185	rmc	min. 30	1.6	1.6	23.0	1976	775
1 x 240	rmc	min. 34/30	1.7	1.7	25.6	2528	985
1 x 300	rmc	min. 34/30	1.8	1.8	28.3	3136	1210
1 x 400	rmc	min. 53	2.0	1.9	32.0	4130	1525
1 x 500	rmc	min. 53	2.2	2.0	35.4	5134	1890
1 x 630	rmc	min. 53	2.4	2.2	39.5	6415	2420
1 x 800	rmc	min. 53	2.6	2.3	45.0	8116	3000
1 x 1000	rmc	min. 53	2.8	2.4	50.0	10096	3650

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



### Installation condition



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#### 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
Core x mm <sup>2</sup>	-	W/km	W/km	amp	amp	amp	amp	amp	amp	amp	amp
1 x 1.5	re	12.1	18.1	36	27	-	-	30	22	-	-
1 x 1.5	rm	12.1	18.1	36	27	-	-	30	22	-	-
1 x 2.5	re	7.41	12.1	47	36	-	-	39	27	-	-
1 x 2.5	rm	7.41	12.1	47	36	-	-	39	27	-	-
1 x 4.0	rm	4.61	7.41	59	45	47	33	50	35	39	24
1 x 6.0	rm	3.08	4.61	78	60	64	46	69	49	56	36
1 x 10	rm	1.83	3.08	100	76	77	53	94	66	72	44
1 x 16	rm	1.15	1.91	130	100	101	71	125	86	97	58
1 x 25	rm	0.727	1.20	155	116	120	81	160	107	125	72
1 x 35	rmc	0.524	0.868	185	140	144	99	195	129	150	84
1 x 50	rmc	0.387	0.641	225	172	175	122	245	161	190	106
1 x 70	rmc	0.268	0.443	270	206	210	146	300	191	233	124
1 x 95	rmc	0.193	0.320	310	234	240	164	350	232	272	154
1 x 120	rmc	0.153	0.253	350	263	272	185	405	267	315	177
1 x 150	rmc	0.124	0.206	390	295	302	207	460	299	357	196
1 x 185	rmc	0.0991	0.164	450	344	350	244	555	339	430	214
1 x 240	rmc	0.0754	0.125	515	390	400	275	640	393	498	251
1 x 300	rmc	0.0601	0.100	585	443	463	321	770	443	537	210
1 x 400	rmc	0.0470	0.0778	680	524	509	353	900	502	626	228
1 x 500	rmc	0.0366	0.0605	800	606	592	398	1030	566	731	267
1 x 630	rmc	0.0283	0.0469	945	713	696	464	1160	645	837	322
1 x 800	rmc	0.0221	0.0367	1095	847	821	573	1310	788	942	420
1 x 1000	rmc	0.0176	0.0291	1270	1010	952	692	1480	925	1064	509

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. 165-170.

#### Characteristics



#### Installation condition

