

2xRaY/A2xRaY or N2xRaY / NA2xRaY

Single Core (Cu or Al/XLPE/AWA/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

U₀/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: Stranded Compacted, Plain annealed Copper or Aluminium, Class-2 to IEC 60228

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

Inner covering: PVC, ST-2 to IEC 60502-1

Armour: Round Aluminium wire 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 diameter of round aluminium wire armour	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
							Cu kg/km	Al kg/km
Core x mm ²	-	nos./mm	mm	mm	mm	mm		
1 x 35	rmc	min. 6	0.9	1.8	1.4	17.3	587	370
1 x 50	rmc	min. 6	1.0	1.8	1.4	19.3	730	456
1 x 70	rmc	min. 12	1.1	1.8	1.4	20.8	957	550
1 x 95	rmc	min. 15	1.1	1.8	1.4	23.3	1202	655
1 x 120	rmc	min. 18/15	1.2	1.8	1.6	25.5	1510	790
1 x 150	rmc	min. 18/15	1.4	1.8	1.6	27.5	1837	930
1 x 185	rmc	min. 30	1.6	1.8	1.6	29.5	2231	1085
1 x 240	rmc	min. 34/30	1.7	1.9	1.6	32.3	2798	1335
1 x 300	rmc	min. 34/30	1.8	1.9	1.6	36.0	3467	1625
1 x 400	rmc	min. 53	2.0	2.1	2.0	40.1	4491	2080
1 x 500	rmc	min. 53	2.2	2.2	2.0	43.6	5509	2505
1 x 630	rmc	min. 53	2.4	2.3	2.0	47.2	6809	3100
1 x 800	rmc	min. 53	2.6	2.5	2.5	54.0	8695	3875
1 x 1000	rmc	min. 53	2.8	2.7	2.5	58.9	10754	4735

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 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	686	288
1 x 500	rmc	0.0366	0.0605	800	606	592	398	1030	566	785	321
1 x 630	rmc	0.0283	0.0469	945	713	696	464	1160	645	855	340
1 x 800	rmc	0.0221	0.0367	1095	847	821	573	1310	788	925	403
1 x 1000	rmc	0.0176	0.0291	1270	1010	952	692	1480	925	1092	537

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