

# 2xRGY/A2xRGY or N2xRGY / NA2xRGY

## 3 Core (Cu or Al/XLPE/SWA/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 :  (Red, Yellow & Blue)

Sheath :  (Black or Other Colors available on request)

### CONSTRUCTION

**Conductor:** Stranded Circular/ Sector shaped, 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 Galvanized Steel wire to IEC 60502-1

**Binder (optional):** Galvanized Steel tape to IEC 60502-1

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



LOW VOLTAGE

### 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 steel armour	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	
							Cu	Al
Core x mm <sup>2</sup>	-	nos./mm	mm	mm	mm	mm	kg/km	kg/km
3 x 25	rm	7/2.14	0.9	1.6	1.8	26.4	1682	1203
3 x 35	sm	min. 6	0.9	1.6	1.8	27.0	1991	1332
3 x 50	sm	min. 6	1.0	1.6	1.9	29.7	2529	1577
3 x 70	sm	min. 12	1.1	2.0	2.1	34.0	3571	2233
3 x 95	sm	min.15	1.1	2.0	2.2	36.8	4561	2756
3 x 120	sm	min. 18/15	1.2	2.0	2.3	41.1	5465	3186
3 x 150	sm	min. 18/15	1.4	2.5	2.5	46.5	7031	4179
3 x 185	sm	min. 30	1.6	2.5	2.6	49.5	8378	4867
3 x 240	sm	min. 34/30	1.7	2.5	2.8	55.8	10453	5879
3 x 300	sm	min. 34/30	1.8	2.5	3.0	59.6	12534	6745

### 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 <sup>2</sup>	-	W/km	W/km	amp	amp	amp	amp	amp	amp	amp	amp
3 x 25	rm	0.727	1.200	130	91	94	55	120	67	96	43
3 x 35	sm	0.524	0.868	155	110	114	69	150	84	117	51
3 x 50	sm	0.387	0.641	190	137	133	80	190	106	142	58
3 x 70	sm	0.268	0.443	225	161	164	100	230	121	179	70
3 x 95	sm	0.193	0.320	260	184	196	120	270	152	221	103
3 x 120	sm	0.153	0.253	295	208	223	136	305	167	257	119
3 x 150	sm	0.124	0.206	330	235	249	154	350	189	292	131
3 x 185	sm	0.0991	0.164	385	279	282	176	410	194	337	121
3 x 240	sm	0.0754	0.125	425	300	327	202	490	243	400	153
3 x 300	sm	0.0601	0.100	578	436	368	226	664	337	455	128

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

