



AI/XLPE/SWA/PVC (NA2XRY)

Power cable 0,6/1 kV with Al conductors, XLPE insulated and PVC sheathed with steel wires armour

APPLICATION

Distribution and signal power cable for static application, mostly in ground, but also within and outside facilities, in cable canals, in concrete. Used in electric power plants and other electric plants, in industry, metropolitan networks and for connection of signalling devices in industry, traffic and similar. Resistant to mechanical loads, able to sustain heavier mechanical tensile strains, could be laid slantingly or vertically, same as on grounds exposed to land-sliding.

CONSTRUCTION

Conductors: Al, class 1 according to EN 60228
Insulation: XLPE compound
Bedding: Extruded elastomere or plastomere compound or plastic tape
Armour: a layer of round galvanized steel wires
Sheath: PVC compound

CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

- 3-core (a): ● Green/Yellow ● Brown ● Blue
- 3-core (b): ● Black ● Brown ● Grey
- 4-core (a): ● Green/Yellow ● Brown ● Black ● Grey
- 4-core (b): ● Blue ● Brown ● Black ● Grey
- 5-core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey

Outer Sheath Colour:

- Black

Other colours available on request

TECHNICAL CHARACTERISTICS

CPR class: Eca
Test voltage: 4 kV
Rated voltage: 0,6/1 kV
Bending radius (min): single-core – 15D;
 multicore- 12D
Min. laying temperature: -5°C
Max. conductor temperature: 70°C
Max. short-circuit temperature: 160°C

STANDARD

IEC 60502-1, BS 5467

CERTIFICATION



THREE- CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	mm	kg/km	kg/km
3x35	SM	0,868	126	135	28,1	304,5	1291,5
3x50	SM	0,641	149	158	31,5	435,6	1559,7
3x70	SM	0,443	191	196	35,2	609,0	1930,2
3x95	SM	0,320	234	234	40,2	826,5	2601,2
3x120	SM	0,253	273	268	43,9	1044,0	3043,9
3x150	SM	0,206	311	300	49,6	1305,0	3980,6
3x185	SM	0,164	360	342	54,0	1609,5	4634,7
3x240	SM	0,125	427	398	59,9	2088,0	5547,4
3x300	SM	0,100	507	457	65,5	2610,0	6493,5

FOUR- CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	mm	kg/km	kg/km
4x10	RM	3,0800	-	-	20,6	116,0	824,1
4x16	RM	1,9100	-	-	22,8	1185,6	1005,3
4x25	RM	1,200	102	112	27,6	290,0	1521,4
4x35	RM	0,868	126	135	30,4	406,0	1842,1
4x50	RM	0,641	149	158	35,6	580,0	2562,7
4x70	RM	0,443	191	196	39,7	812,0	3151,8
4x95	RM	0,320	234	234	45,4	1102,0	4274,3
4x120	RM	0,253	273	268	49,5	1392,0	5013,8
4x150	RM	0,206	311	300	54,6	1740,0	5943,6
4x185	RM	0,164	360	342	59,5	2146,0	6963,2
4x240	RM	0,125	427	398	67,6	2784,0	9244,0
4x300	RM	0,100	507	457	73,3	3480,0	10814,3

FOUR- CORE CABLES, SHAPED:

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	mm	kg/km	kg/km
4x35	SM	0,868	126	135	30,4	406,0	1513,8
4x50	SM	0,641	149	158	34,3	580,0	1873,2
4x70	SM	0,443	191	196	39,7	812,0	2595,8
4x95	SM	0,320	234	234	43,9	1102,0	3138,6
4x120	SM	0,253	273	268	49,6	1392,0	4142,7
4x150	SM	0,206	311	300	54,2	1740,0	4821,5
4x185	SM	0,164	360	342	59,1	2146,0	5613,9
4x240	SM	0,125	427	398	66,2	2784,0	6811,7
4x300	SM	0,100	507	457	71,9	3480,0	7976,2

FOUR- CORE CABLES WITH REDUCED CORE:

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	A	mm	kg/km	kg/km
3x50+35	SM/SM	0,641/0,868	149	158	32,6	536,5	1824,2
3x70+35	SM/SM	0,443/0,868	191	196	37,3	710,5	2420,7
3x95+50	SM/SM	0,320/0,641	234	234	41,8	971,5	2950,0
3x95+70	SM/SM	0,320/0,443	234	234	41,8	1029,5	3040,3
3x120+50	SM/SM	0,253/0,641	273	268	46,0	1189,0	3412,5
3x120+70	SM/SM	0,253/0,443	273	268	46,0	1247,0	3477,9
3x120+95	SM/SM	0,253/0,320	273	268	46,1	1319,5	3558,6
3x150+70	SM/SM	0,206/0,443	311	300	51,0	1508,0	4533,5
3x185+95	SM/SM	0,164/0,320	360	342	55,7	1885,0	5246,6
3x240+120	SM/SM	0,125/0,253	427	398	61,8	2436,0	6345,7
3x300+150	SM/SM	0,100/0,206	507	457	67,2	3045,0	7633,0