ttcables
ELECTRIC CABLE WORKS

NA2XBY

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

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, where there is a possibility of fire (hospital, school, work place, shopping center, etc.). 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 or 2, according to EN 60228
Insulation: XLPE compound
Bedding: Extruded elastomere or plastomere compound or plastic tape
Armour: two galvanized steel tapes
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

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

HD 603 S1, IEC 60502-1

CERTIFICATION

CE RoHS compliant REACH IEC International Electrotechnical Commission

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.)
mm²		Ω/km	A	A	mm	kg/km	kg/km
3x10	RE/RM	3,08	-	-	18,0	87	511
3x16	RE/RM	1,910	-	-	20,0	139,2	647
3x25	RM	1,200	97	75	23,2	217,5	874
3x35	RM	0,868	120	90	25,6	304,5	758
3x50	SM	0,641	1446	106	30,2	435,0	1194
3x70	SM	0,443	187	130	34,5	609,0	1502
3x95	SM	0,320	227	154	38,3	826,5	1825
3x120	SM	0,253	263	174	42,0	1044,0	2225
3x150	SM	0,206	304	197	46,3	1305,0	2640
3x185	SM	0,164	347	220	50,6	1609,5	3114
3x240	SM	0,125	409	253	56,7	2088,0	3804
3x300	SM	0,100	471	286	62,3	2610,0	4587

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.)
mm²		Ω/km	A	A	mm	kg/km	kg/km
4x10	RE/RM	3,080	-	-	19,3	116,0	574
4x16	RE/RM	1,910	-	-	21,5	185,6	734
4x25	RE/RM	1,200	97	75	25,1	290,0	1001
4x35	SM	0,868	120	90	27,8	406,0	909
4x50	SM	0,641	1446	106	32,8	580,0	1401
4x70	SM	0,443	187	130	37,5	812,0	1786
4x95	SM	0,320	227	154	41,7	1102,0	2275
4x120	SM	0,253	263	174	45,8	1392,0	2687
4x150	SM	0,206	304	197	51,4	1740,0	3270
4x185	SM	0,164	347	220	56,2	2146,0	3857
4x240	SM	0,125	409	253	62,6	2784,0	4762

CABLES WIH REDUCED PEN 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.)
mm²		Ω/km	A	A	mm	kg/km	kg/km
3x70+35	SM/SM	0,443/0,868	191	196	34,0	710,5	1379
3x95+50	SM/SM	0,320/0,641	234	234	39,9	971,5	2023
3x120+70	SM/SM	0,253/0,443	273	268	43,9	1247,0	2416
3x150+70	SM/SM	0,206/0,443	311	300	48,4	1508,0	2980
3x185+95	SM/SM	0,164/0,320	360	342	53,0	1885,0	3526
3x240+120	SM/SM	0,125/0,253	427	398	58,9	2436,0	4328