



NA2XCY

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

APPLICATION

Distribution power cable for static outdoor application (with protection against direct UV-irradiation), in ground, in water, within facilities, in cable canals, in concrete, in conditions where there is a danger of possible mechanical damages, but where the cable is not exposed either to systematic mechanical stress or heavier tensile strain. Used in electric power plants, transformer stations, industrial plants, metropolitan networks and other electric plants. Concentric conductor can be used as neutral, protective or earth connection, and in situations where the insulation might be roughly damaged by some metal object, it acts as protection against contact voltage. Corrugated, concentric conductor construction enables establishing of several cable connections without cutting of conductor.

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: 90°C
 Max. short-circuit temperature: 250°C

CONSTRUCTION

Conductors: Al, class 2 according to EN 60228
 Insulation: XLPE compound
 Bedding: Extruded elastomere or plastomere compound or plastic tape
 Concentric conductor: Cu wires with counter helix of Cu tape
 Sheath: PVC compound

STANDARD

VDE 0276-603, HD 603 S1
 IEC 60502-1

CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

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

CERTIFICATION



NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	NOM. THICKNESS OF INSUL.	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	CABLE WEIGHT (APPROX.)
mm ²		mm	Ω/km	A	A	mm	kg/km
3x120/70	SM	1,2	0,253	278	269	1044	2071
3x150/70	SM	1,4	0,206	316	302	1305	2498
3x185/95	SM	1,6	0,164	365	342	1610	3090
3x240/120	SM	1,7	0,125	430	397	2088	3910

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	NOM. THICKNESS OF INSUL.	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	CABLE WEIGHT (APPROX.)
mm ²		mm	Ω/km	A	A	mm	kg/km
4x25/16	RM	0,9	1,200	104	113	23,2	932
4x35/16	SM	0,9	0,868	128	136	26,0	846
4x50/25	SM	1,0	0,641	152	159	29,2	1171
4x70/35	SM	1,1	0,443	194	197	34,2	1598
4x95/50	SM	1,1	0,320	239	236	38,0	2110
4x120/70	SM	1,2	0,253	278	269	42,5	2700
4x150/70	SM	1,4	0,206	316	302	47,1	3188
4x185/95	SM	1,6	0,164	365	342	52,5	4004
4x240/120	SM	1,7	0,125	430	397	59,0	5085
4x300/95	SM	1,8	0,125	506	454	64,4	5730
4x300/150	SM	1,8	0,100	506	454	65,0	6273

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	NOM. THICKNESS OF INSUL.	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	CABLE WEIGHT (APPROX.)
mm ²		mm	Ω/km	A	A	mm	kg/km
4x35/16	SM	0,9	0,868	128	136	26,5	888
4x50/16	SM	1,0	0,641	152	159	29,4	1119
4x70/20	SM	1,1	0,443	194	197	34,1	1506
4x95/30	SM	1,1	0,320	239	236	38,2	1980
4x120/35	SM	1,2	0,253	278	269	42,1	2411
4x150/45	SM	1,4	0,206	316	302	46,5	3008
4x185/60	SM	1,6	0,164	365	342	51,6	3702
4x240/75	SM	1,7	0,125	430	397	58,2	4721
4x300/95	SM	1,8	0,125	506	454	63,9	5791

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	NOM. THICKNESS OF INSUL.	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	CABLE WEIGHT (APPROX.)
mm ²		mm	Ω/km	A	A	mm	kg/km
4x10/6	RM	0,7	3,08	-	-	20,9	584
4x16/10	RM	0,7	1,910	-	-	23,4	768
4x25/16	RM	0,9	1,200	104	113	27,9	1093
4x35/16	RM	0,9	0,868	128	136	30,7	1330
4x50/16	RM	1,0	0,641	152	159	34,5	1685
4x70/20	RM	1,1	0,443	194	197	40,3	2327
4x95/30	RM	1,1	0,320	239	236	44,9	2982
4x120/35	RM	1,2	0,253	278	269	49,7	3649
4x150/45	RM	1,4	0,206	316	302	55,1	4470
4x185/60	RM	1,6	0,164	365	342	60,1	5438
4x240/75	RM	1,7	0,125	430	397	68,1	6956

