



NA2X2Y

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

APPLICATION

In earth, ducts, on support brackets, in dry and wet conditions etc., where one does not expect mechanical damages and the cables are not exposed to the mechanical tensile strain. In urban networks, industrial plants, electric power plants and other electricity consumers and for connection of control devices in industry, traffic etc.

CONSTRUCTION

Conductors: Al, class1 or 2 according to EN 60228

Insulation: XLPE compound DIX 3

Bedding: Extruded elastomere or plastomere compound or plastic tape

Sheath: HDPE compound DMP 2

CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

2-core: ● Brown ● Blue

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: Fca

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

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

CERTIFICATION



International
Electrotechnical
Commission

SINGLE- 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
1x16	RM	1,910	-	-	8,6	46	74
1x25	RM	1,200	106	114	9,5	73	98
1x35	RM	0,868	130	136	11,0	102	139
1x50	RM	0,641	161	162	12,1	145	176
1x70	RM	0,443	204	199	13,6	203	234
1x95	RM	0,320	252	238	15,2	276	308
1x120	RM	0,253	295	272	16,8	348	484
1x150	RM	0,206	339	305	18,4	435	595
1x185	RM	0,164	395	347	20,2	537	723
1x240	RM	0,125	472	404	22,1	696	911
1x300	RM	0,100	547	457	24,5	870	1113
1x400	RM	0,0778	643	525	26,7	1160	1462
1x500	RM	0,0605	754	601	30,4	1450	1811
1x630	RM	0,0469	882	687	33,6	1827	2269
1x800	RM	0,0367	1019	776	37,5	2320	2847
1x1000	RM	0,0291	1157	865	41,7	2900	3535

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
4x16	RE/RM	1,910	-	-	19,5	186	485
4x25	RE/RM	1,200	102	112	23,9	290	756
4x35	SM	0,868	126	135	23,1	406	610
4x50	SM	0,641	149	158	25,8	580	824
4x70	SM	0,443	191	196	29,8	812	1118
4x95	SM	0,320	234	234	33,4	1102	1464
4x120	SM	0,253	273	268	37,4	1392	1836
4x150	SM	0,206	311	300	41,8	1740	2289
4x185	SM	0,164	360	342	46,4	2146	2829
4x240	SM	0,125	427	398	51,7	2784	3601
4x300	SM	0,100	507	457	56,6	3480	4443

CABLES WITH REDUCED NEUTRAL 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
3x70+35	SM/SM	0,443/0,868	191	196	30,9	711	1013
3x95+50	SM/SM	0,320/0,641	234	234	35,1	972	1339
4x120+70	SM/SM	0,253/0,443	273	268	39,1	1247	1690
3x150+70	SM/SM	0,206/0,443	311	300	43,0	1508	2044
3x185+95	SM/SM	0,164/0,320	360	342	47,8	1885	2540
3x240+120	SM/SM	0,125/0,253	427	398	53,5	2436	3229

CABLES WITH CONTROL CABLE:

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
4x16+2,5	RE/RM	1,910	-	-	19,5	186	514
4x25+2,5	RE/RM	1,200	102	112	23,9	290	784
4x35+2,5	SM	0,868	126	135	23,1	406	639
4x50+2,5	SM	0,641	149	158	25,8	580	853
4x70+2,5	SM	0,443	191	196	29,8	812	1147
4x95+2,5	SM	0,320	234	234	33,4	1102	1493
4x120+2,5	SM	0,253	273	268	37,4	1392	1865
4x150+2,5	SM	0,206	311	300	41,8	1740	2318
4x185+2,5	SM	0,164	360	342	46,4	2146	2858
4x240+2,5	SM	0,125	427	398	51,7	2784	3630
4x300+2,5	SM	0,100	507	457	56,6	3480	4472

FIVE - CORE CABLE:

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
5x10	RM/RE	3,080	-	-	46,3	145	380
5x16	RM/RE	1,910	-	-	20,3	232	518
5x25	RM	1,200	102	112	24,4	363	787
5x35	RM	0,868	126	135	27,4	508	1056
5x50	RM	0,641	149	158	31,6	725	1354
5x70	RM	0,443	191	196	36,1	1015	1826
5x95	RM	0,320	234	234	40,6	1378	2405
5x120	RM	0,253	273	268	45,4	1740	2948
5x150	RM	0,206	311	300	50,8	2175	3693
5x185	RM	0,164	360	342	56,4	2683	4605

SIGNAL CU WIRE:

NOMINAL CROSS-SECTION	1,5 mm ²	2,5 mm ²
Max. resistance at 20°C (Ω/km):	12,1	7,41
Nom. thickness insulation (mm):	0,7	0,7
Outer diam. (mm):	2,8	3,2
Metal weight (kg/km):	14,4	24