



NA2XBH

Power cable 0,6/1 kV with Al conductors, XLPE insulated and HFFR 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 (aluminium tapes for single-core cables)

Sheath: HFFR compound

CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

Single-core: ● Green/Yellow OR ● Black

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

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
1x50	RM	0,641	169	164	16,14	145,0	361
1x70	RM	0,443	214	201	17,81	203,0	445
1x95	RM	0,320	263	240	19,47	275,5	570
1x120	RM	0,253	308	272	21,14	348,0	671
1x150	RM	0,206	349	303	23,01	435,0	795
1x185	RM	0,164	401	340	24,98	536,5	938
1x240	RM	0,125	469	387	27,48	696,0	1175
1x300	RM	0,100	535	430	29,77	870,0	1396
1x400	RM	0,0778	615	479	33,41	1160,0	1768

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
3x16	RM	1,910	-	-	19,0	139,2	603
3x25	RM	1,200	102	112	22,4	217,5	829
3x35	SM	0,868	126	135	22,5	304,5	691
3x50	SM	0,641	149	158	26,2	435,0	1102
3x70	SM	0,443	191	196	30,1	609,0	1380
3x95	SM	0,320	234	234	33,1	826,5	1662
3x120	SM	0,253	273	268	36,0	1044,0	2034
3x150	SM	0,206	311	300	40,3	1305,0	2419
3x185	SM	0,164	360	342	44,1	1609,5	2852
3x240	SM	0,125	427	398	49,1	2088,0	3520

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	RM	1,910	-	-	20,6	185,6	689
4x25	RM	1,200	102	112	24,4	290,0	957
4x35	SM	0,868	126	135	25,2	406,0	850
4x50	SM	0,641	149	158	29,3	580,0	1320
4x70	SM	0,443	191	196	33,6	812,0	1674
4x95	SM	0,320	234	234	37,2	1102,0	2126
4x120	SM	0,253	273	268	40,9	1392,0	2518
4x150	SM	0,206	311	300	45,7	1740,0	3050
4x185	SM	0,164	360	342	50,0	2146,0	3619
4x240	SM	0,125	427	398	55,8	2784,0	4499

CABLES WITH 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.)
mm ²		Ω/km	A	A	mm	kg/km	kg/km
3x70+35	SM/SM	0,443/0,868	191	196	33,0	710,5	1311
3x95+50	SM/SM	0,320/0,641	234	234	38,7	971,5	1931
3x120+70	SM/SM	0,253/0,443	273	268	42,6	1247,0	2311
3x150+70	SM/SM	0,206/0,443	311	300	46,9	1508,0	2851
3x185+95	SM/SM	0,164/0,320	360	342	51,5	1885,0	3349
3x240+120	SM/SM	0,125/0,253	427	398	57,4	2436,0	4177