NA2XH

Power cable 0,6/1 kV with Al conductors, XLPE insulated and HFFR 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.

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

CONSTRUCTION

Conductors: Al, class 1 (RE/SE) or class 2 (RM/SM) according to EN 60228
Insulation: XLPE compound DIX 3
Bedding: Extruded elastomere or plastomere compound or plastic tape
Sheath: HFFR compound HM 4

STANDARD

SI 1516-1, IEC 60502-1

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:
● Green
Other colours available on request

CERTIFICATION

International Electrotechnical Commission

SINGLE - CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR CONSTRUCTION	NOM. THICKNESS OF INSUL.	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
1x16	RM	0,7	1,910			9,5	46,4	122
1x25	RM	0,9	1,200	106	114	11,9	72,5	175
1x35	RM	0,9	0,868	130	136	13,0	101,5	206
1x50	RM	1,0	0,641	161	162	14,9	145,0	267
1x70	RM	1,1	0,443	204	199	17,0	203,0	358
1x95	RM	1,1	0,320	252	238	18,9	275,5	451
1x120	RM	1,2	0,253	295	272	20,7	348,0	546
1x150	RM	1,4	0,206	339	305	22,7	435,0	655
1x185	RM	1,6	0,164	395	347	25,1	536,5	800
1x240	RM	1,7	0,125	472	404	27,6	696,0	987
1x300	RM	1,8	0,100	547	457	31,9	870,0	1324
1x400	RM	2,0	0,0778	643	525	34,9	1160,0	1640
1x500	RM	2,2	0,0605	754	601	39,3	1450,0	2030
1x630	RM	2,4	0,0469	882	687	44,1	1827,0	2400
1x800	RM	2,6	0,0367	1019	776	46,5	2320,0	2505
1x1000	RM	2,8	0,0291	1157	865	52,0	2900,0	3115

THREE - CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR CONSTRUCTION	NOM. THICKNESS OF INSUL.	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
3x16	RM	0,7	1,910			16,5	139,2	397
3x25	RM	0,9	1,200	102	112	20,0	217,5	587
3x35	RM/SM	0,9	0,868	126	135	22,5	304,5	531
3x50	RM	1,0	0,641	149	158	57,6	435,0	1007
3x70	RM	1,1	0,443	191	196	30,6	609,0	1401
3x95	RM	1,1	0,320	234	234	33,8	826,5	1801
3x120	RM	1,2	0,253	273	268	37,5	1044,0	2226
3x50	SE/SM	1,0	0,641	149	158	26,0	435,0	720
3x70	SE/SM	1,1	0,443	191	196	29,7	609,0	963
3x95	SE/SM	1,1	0,320	234	234	33,4	826,5	1246
3x120	SE/SM	1,2	0,253	273	268	37,1	1044,0	1545
3x150	SE/SM	1,4	0,206	311	300	41,2	1305,0	1916
3x185	SE/SM	1,6	0,164	360	342	45,7	1609,5	2347
3x240	SE/SM	1,7	0,125	427	398	51,6	2088,0	2987
3x300	SE/SM	1,8	0,100	507	457	56,7	2610,0	3663

FOUR - CORE CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR CONSTRUCTION	NOM. THICKNESS OF INSUL.	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	1,1/0,9	0,443/0,868	191	196	28,8	655,4	935
3x95+50	SM/SM	1,1/1,0	0,320/0,641	234	234	32,2	899,0	1120
3x120+70	SM/SM	1,2/1,1	0,253/0,443	273	268	34,6	1145,5	1430
3x150+70	SM/SM	1,4/1,1	0,206/0,443	311	300	38,5	1450,0	1950
3x185+95	SM/SM	1,6/1,1	0,164/0,320	360	342	42,4	1812,5	2345
3x240+120	SM/SM	1,7/1,2	0,125/0,253	427	398	47,2	2363,5	2980
4x35	SM	0,9	0,868	126	135	25,9	406,0	690
4x50	SE/SM	1,0	0,641	149	158	28,4	580,0	832
4x70	SE/SM	1,1	0,443	191	196	32,4	812,0	1234
4x95	SE/SM	1,1	0,320	234	234	35,6	1102,0	1460
4x120	SE/SM	1,2	0,253	273	268	40,6	1392,0	1861
4x150	SE/SM	1,4	0,206	311	300	44,8	1740,0	2386
4x185	SE/SM	1,6	0,164	360	342	49,2	2146,0	2866
4x240	SE/SM	1,7	0,125	427	398	54,9	2784,0	3616
4x300	SE/SM	1,8	0,100	507	457	58,8	3480,0	4500

FOUR - CORE ROUND CABLES:

NOMINAL CROSS-SECTION	CONDUCTOR CONSTRUCTION	NOM. THICKNESS OF INSUL.	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
4x16	RE/RM	0,7	1,910			19,9	185,6	560
4x25	RE/RM	0,9	1,200	102	112	23,5	290,0	791
4x35	RE/RM	0,9	0,868	126	135	26,2	406,0	999
4x50	RE/RM	1,0	0,641	149	158	28,0	580,0	1314
4x70	RE/RM	1,1	0,443	191	196	32,3	812,0	1784
4x95	RE/RM	1,1	0,320	234	234	36,5	1102,0	2291
4x120	RE/RM	1,2	0,253	273	268	40,6	1392,0	2813
4x150	RM	1,4	0,206	311	300	45,2	1740,0	3509
4x185	RM	1,6	0,164	360	342	50,2	2146,0	4283
4x240	RM	1,7	0,125	427	398	56,2	2784,0	5429
4x300	RM	1,8	0,100	507	457	61,9	3480,0	6604

FOUR - CORE CABLES WITH CONTROL CONDUCTOR:

NOMINAL CROSS-SECTION	CONDUCTOR CONSTRUCTION	NOM. THICKNESS OF INSUL.	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
4x16+1,5	RE/RM	0,7	1,910			22,1	185,6	615
4x25+1,5	RE/RM	0,9	1,200	102	112	26,2	290,0	870
4x35+1,5	RE/RM	0,9	0,868	126	135	28,9	406,0	1074
4x35+1,5	SM	0,9	0,868	126	135	23,1	406,0	630
4x50+1,5	SE/SM	1,0	0,641	149	158	26,0	580,0	847
4x70+1,5	SE/SM	1,1	0,443	191	196	30,0	812,0	1135
4x95+1,5	SE/SM	1,1	0,320	234	234	33,6	1102,0	1480
4x120+1,5	SE/SM	1,2	0,253	273	268	37,3	1392,0	1826
4x150+1,5	SE/SM	1,4	0,206	311	300	42,0	1740,0	2282
4x185+1,5	SE/SM	1,6	0,164	360	342	46,3	2146,0	2766
4x240+1,5	SE/SM	1,7	0,125	427	398	52,1	2784,0	3572
4x300+1,5	SE/SM	1,8	0,100	507	457	56,8	3480,0	4374

FOUR - CORE CABLES WITH CONTROL COND. - WITH RUBBER BEDDING:

NOMINAL CROSS-SECTION	CONDUCTOR CONSTRUCTION	NOM. THICKNESS OF INSUL.	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
4x35+1,5	SM	0,9	0,868	126	135	24,3	406,0	800
4x50+1,5	SE/SM	1,0	0,641	149	158	27,2	580,0	1037
4x70+1,5	SE/SM	1,1	0,443	191	196	31,2	812,0	1376
4x95+1,5	SE/SM	1,1	0,320	234	234	34,8	1102,0	1734
4x120+1,5	SE/SM	1,2	0,253	273	268	38,6	1392,0	2128
4x150+1,5	SE/SM	1,4	0,206	311	300	43,6	1740,0	2709
4x185+1,5	SE/SM	1,6	0,164	360	342	48,0	2146,0	3250
4x240+1,5	SE/SM	1,7	0,125	427	398	54,1	2784,0	4160
4x300+1,5	SE/SM	1,8	0,100	507	457	58,8	3480,0	5005

FOUR - CORE CABLES WITH CONTROL COND. - WITH RUBBER BEDDING:

NOMINAL CROSS-SECTION	CONDUCTOR CONSTRUCTION	NOM. THICKNESS OF INSUL.	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
5x16	RM	0,7	1,910			23,4	232,0	625
5x25	RM	0,9	1,200	102	112	28,2	362,5	950
5x35	RM	0,9	0,868	126	135	31,0	507,5	1195
5x50	RM	1,0	0,641	149	158	36,8	725,0	1540
5x70	RM	1,1	0,443	191	196	42,8	1015,0	2240
5x95	RM	1,1	0,320	234	234	48,5	1377,5	3015
5x120	RM	1,2	0,253	273	268	53,6	1740,0	3580

SIGNAL CU WIRE:
Nominal cross section: 1,5 mm^2
Max. resistance at 20°C :12,1 Ω/km
Nom. thicknss of insul. :0,7mm
Outer diameter :2,9mm
Metal weight :14,4 kg/km