NA2XY 1x(10-300)mm²

Al/XLPE/PVC

Flame Retardant And UV Resistant/ Reduced Flame Propagation Aluminium Power cable

Construction

Conductor:	Al, class 1 or 2 acc. to HRN HD 383 / IEC 60228 / DIN VDE 0295
Insulation:	XLPE-compound DIX 3 acc. to HRN HD 603 S1, concentrically stranded cores, color marked acc. to HRN HD 308 S2 / VDE 0293-308
Colour code:	black
Filler:	extruded elastomer or plastomer compound
Sheath:	PVC ST1 Compound Acc to IEC 60502-1

sheath colour: Black Ral 9005

Abbreviations
2X insulation & outer sheath of Crosslinked Polyethylene
fl reduced flame propagation
-J manufactured with one yellow/green conductor
-O manufactured without one yellow/green conductor

Application

Distribution and signal power cable for static application in ground, in water, within facilities, in cable canals, in concrete, where heavier mechanical stresses are not expected, and the cable has to be protected against mechanical damages, also in conditions where cables are not exposed to heavier tensile strains. Used in electric power plants, transformer stations, industrial plants, metropolitan networks and in other electric plants where heavier current and thermal loads are expected (operating temperature of conductor up to 90 °C).

Technical data

Temperature range:

During installation :	-5 °C up to +50 °C
during operation:	-20 °C up to +90 °C
at short circuit of max.	250 °C @ 5 sec
ambient temperature at storage:	up to 40 °C
Nominal voltage:	Uo/U = 0.6/1 KV
Test voltage:core/core	3.5 KV AC for 5 Min
Minimal inner bending radius:	12 X Cable Φ
Behavior in fire:	IEC 60332-1
Flame propagation:	IEC 60332-3 cat.A
Conductor resistance:	Acc to IEC 60228

Design Standards

IEC 60502-1
VDE 0276-603

NA2XY 1x(10-630)mm²

Al/XLPE/PVC

Single Core							
Code No.	number of cores x conductor cross-section	Construction	Construction of individual conductor	External diameter	Insulation thickness	Cable weight	Packing*
			nominal	.Nom	.nom	.Nom	
	Nx mm²		nx mm	mm	mm	kg/km	
A1110	1x 10	RM	7x 1.35	8.4	0.7	85	CUT
A1116	1x 16	RM	7x 1.7	9.4	0.7	115	CUT
A1125	1x 25	RM	7x 2,2	11.1	0.9	160	CUT
A1135	1x 35	RM	7x 2,6	11.7	0.9	200	CUT
A1150	1x 50	RM	19x 1,8	13.1	1	260	CUT
A1170	1x 70	RM	19x 2,2	15.1	1.1	340	CUT
A1195	1x 95	RM	19x 2,6	16.6	1.1	430	CUT
A11120	1x 120	RM	19x 2,8	17.3	1.2	500	CUT
A11150	1x 150	RM	37x 2,3	20.6	1.4	640	CUT
A1185	1x 185	RM	37x 2,6	22.5	1.6	790	CUT
A11240	1x 240	RM	37x 2,95	25.8	1.7	1,010	CUT
A11300	1x 300	RM	61x 2,6	27.9	1.8	1,210	CUT
A11400	1x 400	RM	61x 2,89	31.2	2	1,700	CUT
A11500	1x 500	RM	61x 3,23	34.8	2.2	1,990	CUT
A11630	1x 630	RM	91x 2,97	42.1	2.4	2,480	CUT

Electrical Data

Nom. Cross Section Area	Conductor DC Resistance at 20°C	AC Resistance at 90°C	Inductance Trefoil formation	Inductance Flat formation	Current - Carrying Capacity at 30° C * in air	in ground	in air	in ground	Short circuit current at 1 sec
(mm²)	Max. (Ω/km)	Max. (Ω/km)	(mH/km)	(mH/km)	Max. (A)	Max. (A)	Max. (A)	Max. (A)	Max. (kA)
10	3.08	3.949	0.336	0.382	60	71	62	70	0.94
16	1.91	2.449	0.311	0.357	81	92	84	91	1.5
25	1.2	1.539	0.302	0.348	109	118	112	117	2.35
35	0.868	1.113	0.289	0.335	134	142	138	140	3.29
50	0.641	0.822	0.279	0.325	165	168	170	166	4.7
70	0.443	0.568	0.269	0.316	211	206	218	203	6.58
95	0.32	0.411	0.263	0.309	260	245	269	242	8.93
120	0.253	0.325	0.26	0.306	303	279	312	275	11.28
150	0.206	0.265	0.258	0.304	353	313	364	309	14.1
185	0.164	0.212	0.258	0.304	411	355	424	350	17.39
240	0.125	0.162	0.253	0.299	494	412	510	406	22.56
300	0.1	0.13	0.249	0.295	571	465	590	458	28.2
400	0.0778	0.103	0.245	0.292	688	536	711	528	37.6
500	0.0605	0.081	0.245	0.291	796	609	823	599	47
630	0.0469	0.065	0.243	0.289	932	692	963	680	59.22

NA2XY 2x(10-300)mm²

Al/XLPE/PVC

Flame Retardant And UV Resistant/ Reduced Flame Propagation Aluminium Power cable

Construction

Conductor:	Al, class 1 or 2 acc. to HRN HD 383 / IEC 60228 / DIN VDE 0295
Insulation:	XLPE-compound DIX 3 acc. to HRN HD 603 S1, concentrically stranded cores, color marked acc. to HRN HD 308 S2 / VDE 0293-308
Colour code:	black, blue
Laying up:	cores twisted in layers (if necessary with filling element(s))
Wrapping:	at least 1 layer of plastic tape
Filler:	extruded elastomer or plastomer compound
Sheath:	PVC ST1 Compound Acc to IEC 60502-1
sheath colour:	Black Ral 9005

Abbreviations
2X insulation & outer sheath of Crosslinked Polyethylene
fl reduced flame propagation
-J manufactured with one yellow/green conductor
-O manufactured without one yellow/green conductor

Application

Distribution and signal power cable for static application in ground, in water, within facilities, in cable canals, in concrete, where heavier mechanical stresses are not expected, and the cable has to be protected against mechanical damages, also in conditions where cables are not exposed to heavier tensile strains. Used in electric power plants, transformer stations, industrial plants, metropolitan networks and in other electric plants where heavier current and thermal loads are expected (operating temperature of conductor up to 90 °C).

Technical data

Temperature range:	
During installation :	-5 °C up to +50 °C
during operation:	-20 °C up to +90 °C
at short circuit of max.	250 °C @ 5 sec
ambient temperature at storage:	up to 40 °C
Nominal voltage:	Uo/U = 0.6/1 KV
Test voltage:core/core	3.5 KV AC for 5 Min
Minimal inner bending radius:	12 X Cable Φ
Behavior in fire:	IEC 60332-1
Flame propagation:	IEC 60332-3 cat.A
Conductor resistance:	Acc to IEC 60228

Design Standards

IEC 60502-1
VDE 0276-603

NA2XY 2x(10-300)mm²

Al/XLPE/PVC

2 Core

Code No.	number of cores x conductor cross-section	Construction	Insulation thickness	sheath thickness	External diameter	Cable weight	Packing*
			.nom	.Nom	.nom	.Nom	
	Nx mm²		mm	mm	mm	kg/km	
A1210	2x 10	RM	0.7	1.8	16.2	350	CUT
A1216	2x 16	RM	0.7	1.8	18.7	460	CUT
A1225	2x 25	RM	0.9	1.8	22.1	590	CUT
A1235	2x 35	RM	0.9	1.8	23.3	740	CUT
A1250	2x 50	SM	1	1.8	20.9	840	CUT
A1270	2x 70	SM	1.1	1.8	23.8	1,100	CUT
A1295	2x 95	SM	1.1	2	27.2	1,440	CUT
A12120	2x 120	SM	1.2	2.1	30.2	1,740	CUT
A12150	2x 150	SM	1.4	2.2	33.4	2,040	CUT
A12185	2x 185	SM	1.6	2.3	36.8	2,600	CUT
A12240	2x 240	SM	1.7	2.5	41.5	3,215	CUT
A12300	2x 300	SM	1.8	2.7	46	3,950	CUT

Electrical Data

Nom. Cross Section Area	Conductor DC Resistance at 20°C	AC Resistance at 90°C	Inductance	Current - Carrying Capacity at 30° C * in air	Current - Carrying Capacity at 30° C * in ground	Short circuit current at 1 sec
(mm²)	Max. (Ω/km)	Max. (Ω/km)	(mH/km)	Max. (A)	Max. (A)	Max. (kA)
10	3.08	3.949	0.248	67	75	0.94
16	1.91	2.449	0.236	91	100	1.5
25	1.2	1.539	0.242	119	128	2.35
35	0.868	1.113	0.234	147	154	3.29
50	0.641	0.822	0.232	179	183	4.7
70	0.443	0.568	0.229	227	226	6.58
95	0.32	0.411	0.224	277	270	8.93
120	0.253	0.325	0.223	322	308	11.28
150	0.206	0.265	0.225	364	344	14.1
185	0.164	0.211	0.225	425	391	17.39
240	0.125	0.162	0.223	501	454	22.56
300	0.1	0.13	0.222	574	511	28.2

NA2XY 3x(10-300)mm²

Al/XLPE/PVC

Flame Retardant And UV Resistant/ Reduced Flame Propagation Aluminium Power cable

Construction

Conductor:	Al, class 1 or 2 acc. to HRN HD 383 / IEC 60228 / DIN VDE 0295
Insulation:	XLPE-compound DIX 3 acc. to HRN HD 603 S1, concentrically stranded cores, color marked acc. to HRN HD 308 S2 / VDE 0293-308
Colour code:	Black, Blue, Brown
Laying up:	cores twisted in layers (if necessary with filling element(s))
Wrapping:	at least 1 layer of plastic tape
Filler:	extruded elastomer or plastomer compound
Sheath:	PVC ST1 Compound Acc to IEC 60502-1
sheath colour:	Black Ral 9005

Abbreviations
2X insulation & outer sheath of Crosslinked Polyethylene
fl reduced flame propagation
-J manufactured with one yellow/green conductor
-O manufactured without one yellow/green conductor

Application

Distribution and signal power cable for static application in ground, in water, within facilities, in cable canals, in concrete, where heavier mechanical stresses are not expected, and the cable has to be protected against mechanical damages, also in conditions where cables are not exposed to heavier tensile strains. Used in electric power plants, transformer stations, industrial plants, metropolitan networks and in other electric plants where heavier current and thermal loads are expected (operating temperature of conductor up to 90 °C).

Technical data

Temperature range:	
During installation :	-5 °C up to +50 °C
during operation:	-20 °C up to +90 °C
at short circuit of max.	250 °C @ 5 sec
ambient temperature at storage:	up to 40 °C
Nominal voltage:	Uo/U = 0.6/1 KV
Test voltage:core/core	3.5 KV AC for 5 Min
Minimal inner bending radius:	12 X Cable Φ
Behavior in fire:	IEC 60332-1
Flame propagation:	IEC 60332-3 cat.A
Conductor resistance:	Acc to IEC 60228

Design Standards

IEC 60502-1
VDE 0276-603

NA2XY 3x(10-300)mm²

Al/XLPE/PVC

3 Core							
Code No.	number of cores x conductor cross-section	Construction	Insulation thickness	sheath thickness	External diameter	Cable weight	Packing*
			.nom	.Nom	.nom	.Nom	
	N x mm²		mm	mm	mm	kg/km	
A1310	3x 10	RM	0.7	1.8	17	285	CUT
A1316	3x 16	RM	0.7	1.8	19.7	510	CUT
A1325	3x 25	RM	0.9	1.8	23.4	660	CUT
A1335	3x 35	RM	0.9	1.8	24.6	830	CUT
A1350	3x 50	SM	1	1.8	24.2	950	CUT
A1370	3x 70	SM	1.1	1.9	27.8	1,130	CUT
A1395	3x 95	SM	1.1	2	31	1,430	CUT
A13120	3x 120	SM	1.2	2.1	34.3	1,720	CUT
A13150	3x 150	SM	1.4	2.3	38.4	2,115	CUT
A13185	3x 185	SM	1.6	2.4	42.5	2,580	CUT
A13240	3x 240	SM	1.7	2.6	47.5	3,280	CUT
A13300	3x 300	SM	1.8	2.8	49.5	3,970	CUT

Electrical Data

Nom. Cross Section Area	Conductor DC Resistance at 20°C	AC Resistance at 90°C	Inductance	Current - Carrying Capacity at 30° C *		Short circuit current at 1 sec
				in air	in ground	
(mm²)	Max. (Ω/km)	Max. (Ω/km)	(mH/km)	Max. (A)	Max. (A)	Max. (kA)
10	3.08	3.949	0.248	67	75	0.94
16	1.91	2.449	0.236	91	100	1.5
25	1.2	1.539	0.242	119	128	2.35
35	0.868	1.113	0.234	147	154	3.29
50	0.641	0.822	0.232	179	183	4.7
70	0.443	0.568	0.229	227	226	6.58
95	0.32	0.411	0.224	277	270	8.93
120	0.253	0.325	0.223	322	308	11.28
150	0.206	0.265	0.225	364	344	14.1
185	0.164	0.211	0.225	425	391	17.39
240	0.125	0.162	0.223	501	454	22.56
300	0.1	0.13	0.222	574	511	28.2

NA2XY 4x(10-300)mm²

Al/XLPE/PVC

Flame Retardant And UV Resistant/ Reduced Flame Propagation Aluminium Power cable

Construction

Conductor:	Al, class 1 or 2 acc. to HRN HD 383 / IEC 60228 / DIN VDE 0295
Insulation:	XLPE-compound DIX 3 acc. to HRN HD 603 S1, concentrically stranded cores, color marked acc. to HRN HD 308 S2 / VDE 0293-308
Colour code:	Black, blue, Brown, Yellow
Laying up:	cores twisted in layers (if necessary with filling element(s))
Wrapping:	at least 1 layer of plastic tape
Filler:	extruded elastomer or plastomer compound
Sheath:	PVC ST1 Compound Acc to IEC 60502-1
sheath colour:	Black Ral 9005

Abbreviations
2X insulation & outer sheath of Crosslinked Polyethylene
fl reduced flame propagation
-J manufactured with one yellow/green conductor
-O manufactured without one yellow/green conductor

Application

Distribution and signal power cable for static application in ground, in water, within facilities, in cable canals, in concrete, where heavier mechanical stresses are not expected, and the cable has to be protected against mechanical damages, also in conditions where cables are not exposed to heavier tensile strains. Used in electric power plants, transformer stations, industrial plants, metropolitan networks and in other electric plants where heavier current and thermal loads are expected (operating temperature of conductor up to 90 °C).

Technical data

Temperature range:

During installation :	-5 °C up to +50 °C
during operation:	-20 °C up to +90 °C
at short circuit of max.	250 °C @ 5 sec
ambient temperature at storage:	up to 40 °C
Nominal voltage:	Uo/U = 0.6/1 KV
Test voltage:core/core	3.5 KV AC for 5 Min
Minimal inner bending radius:	12 X Cable Φ
Behavior in fire:	IEC 60332-1
Flame propagation:	IEC 60332-3 cat.A
Conductor resistance:	Acc to IEC 60228

Design Standards

IEC 60502-1
VDE 0276-603

NA2XY 4x(10-300)mm²

Al/XLPE/PVC

4 Core							
Code No.	Dimensions – number of cores x conductor cross-section	Construction	Insulation thickness	sheath thick ness	External diameter	Cable weight	Packing*
			.nom	.Nom	.nom	.Nom	
	N x mm²		mm	mm	mm	kg/km	
A14325/16	3x 25/16	RM/RM	0.9	1.8	24.5	760	CUT
A14335/16	3x 35/16	RM/RM	0.9	1.8	26	920	CUT
A14350/25	3x 50/25	Sm/RM	1	1.8	25.7	810	CUT
A14370/35	3x 70 /35	SM/RM	1.1	1.9	29.4	1080	CUT
A14395/50	3x 95 /50	SM/SM	1.1	2.1	33.1	1440	CUT
A143120/70	3x 120 /70	SM/SM	1.2	2.2	36.7	1790	CUT
A143150/70	3x 150/70	SM/SM	1.4	2.3	40.9	2144	CUT
A143185/95	3x 185/95	SM/SM	1.6	2.5	45.4	2695	CUT
A143240/120	3x 240/120	SM/SM	1.7	2.7	50.8	3440	CUT
A143300/150	3x 300/150	SM/SM	1.8	2.8	56	4250	CUT
A141.5	4X 1.5	RM	0.7	1.8	12.1	180	CUT
A142.5	4X 2.5	RM	0.7	1.8	13.1	210	CUT
A144	4X 4	Rm	0.7	1.8	14.8	250	CUT
A146	4X 6	RM	0.7	1.8	16.2	310	CUT
A1410	4X 10	RM	0.7	1.8	18.4	450	CUT
A1416	4X 16	RM	0.7	1.8	21.4	605	CUT
A1425	4X 25	RM	0.9	1.8	25.5	790	CUT
A1435	4X 35	RM	0.9	1.8	26.9	995	CUT
A1450	4X 50	SM	1	1.9	27	1,060	CUT
A1470	4X 70	SM	1.1	2	30.9	1,435	CUT
A1495	4X 95	SM	1.1	2.1	34.5	1,820	CUT
A14120	4X 120	SM	1.2	2.3	38.5	2,275	CUT
A14150	4X 150	SM	1.4	2.4	42.9	2,750	CUT
A14185	4X 185	SM	1.6	2.6	47.6	3,340	CUT
A14240	4X 240	SM	1.7	2.8	53.2	4,250	CUT
A14300	4X 300	SM	1.8	3	58.9	5,135	CUT

NA2XY 5x(10-300)mm²

Al/XLPE/PVC

Flame Retardant And UV Resistant/ Reduced Flame Propagation Aluminium Power cable

Construction

Conductor:	Al, class 1 or 2 acc. to HRN HD 383 / IEC 60228 / DIN VDE 0295
Insulation:	XLPE-compound DIX 3 acc. to HRN HD 603 S1, concentrically stranded cores, color marked acc. to HRN HD 308 S2 / VDE 0293-308
Colour code:	Black, Blue, Brown, Red, Yellow/Green
Laying up:	cores twisted in layers (if necessary with filling element(s))
Wrapping:	at least 1 layer of plastic tape
Sheath:	PVC (ST1) Compound Acc to IEC 60502-1
sheath colour:	Black Ral 9005

Abbreviations
2X insulation & outer sheath of Crosslinked Polyethylene
fl reduced flame propagation
-J manufactured with one yellow/green conductor
-O manufactured without one yellow/green conductor

Application

Distribution and signal power cable for static application in ground, in water, within facilities, in cable canals, in concrete, where heavier mechanical stresses are not expected, and the cable has to be protected against mechanical damages, also in conditions where cables are not exposed to heavier tensile strains. Used in electric power plants, transformer stations, industrial plants, metropolitan networks and in other electric plants where heavier current and thermal loads are expected (operating temperature of conductor up to 90 °C).

Technical data

Temperature range:

During installation :	-5 °C up to +50 °C
during operation:	-20 °C up to +90 °C
at short circuit of max.	250 °C @ 5 sec
ambient temperature at storage:	up to 40 °C
Nominal voltage:	Uo/U = 0.6/1 KV
Test voltage:core/core	3.5 KV AC for 5 Min
Minimal inner bending radius:	12 X Cable Φ
Behavior in fire:	IEC 60332-1
Flame propagation:	IEC 60332-3 cat.A
Conductor resistance:	Acc to IEC 60228

Design Standards

IEC 60502-1
VDE 0276-603

NA2XY 5x(10-50)mm²

Al/XLPE/PVC

5 Core							
Code No.	number of cores x conductor cross-section	Construction	Insulation thickness	sheath thickness	External diameter	Cable weight	Packing*
	N x mm²		.nom mm	.Nom mm	.nom mm	.Nom kg/km	
A1510	5X 10	RM	0.7	1.8	20	525	CUT
A1516	5X 16	RM	0.7	1.8	23.3	710	CUT
A1525	5X 25	RM	0.9	1.8	27.9	935	CUT
A1535	5X 35	RM	0.9	1.8	29.5	1,190	CUT
A1550	5X 50	RM	1	2	34	1,480	CUT

Electrical Data

Nom. Cross Section Area	Conductor DC Resistance at 20°C	AC Resistance at 90°C	Inductance	Current - Carrying Capacity at 30° C *		Short circuit current at 1 sec
				in air	in ground	
(mm²)	Max. (Ω/km)	Max. (Ω/km)	(mH/km)	Max. (A)	Max. (A)	Max. (kA)
10	3.08	3.949	0.248	65	70	0.94
16	2	2	0	88	92	2
25	1.2	1.539	0.242	117	118	2.35
35	1	1	0	144	143	3
50	0.641	0.822	0.232	176	168	4.7