

NA2XRY 3x(10-300)mm²

Al/XLPE/SWA/PVC



Flame Retardant And UV Resistant/ Reduced Flame Propagation /Armored Power Cables

Construction

Conductor:	Al, Class 2 acc. DIN-VDE 0295, IEC 60228 multi wire stranded, round (RM) or sector (SM),
Insulation:	Cross-linked Polyethylene (XLPE) acc to DIN VDE 0276-603 e IEC 60502 e IEC 60502 and HD 603S1,
Colour code:	blue, black, Brown
Laying up:	cores twisted in layers (if necessary with filling element(s))
Wrapping:	at least 1 layer of plastic tape
Bedding:	Polyvinyl Chloride (PVC)
Armour:	a layer of thin round galvanized steel wires, helically
Sheath:	UV resistant PVC (IEC 60502-1, DIN VDE 207 ST1)
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

These cables are resistant against outer mechanical reactions with their armors of galvanized steel wires. They are suitable for heavy operating conditions, laying and installation. Used under ground and under normal and salty water if specially produced

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:	U ₀ /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

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3Core

Code No.	Dimensions – number of cores x conductor cross-section	Construction	Insulation thickness	sheath thickness	Diameter under Armour	Armour wire Diameter	External diameter	Cable weight	Packin g*
	N x mm ²		RM/SM	nom. mm	Nom. mm	nom. mm	mm	mm	
A3310	3 x 10	RM	0.7	1.8	13.8	1.25	19.9	720	CUT
A3316	3 x 16	RM	0.7	1.8	16.1	1.25	22.2	890	CUT
A3325	3 x 25	RM	0.9	1.8	19.7	1.6	26.6	1230	CUT
A3335	3 x 35	RM	0.9	1.8	21	1.6	27.8	1480	CUT
A3350	3 x 50	SM	1	1.9	22.6	1.6	29.6	1550	CUT
A3370	3 x 70	SM	1.1	2	26.4	2	34.4	2185	CUT
A3395	3 x 95	SM	1.1	2.2	29.4	2	37.8	2590	CUT
A33120	3 x 120	SM	1.2	2.3	32.5	2	41.1	3010	CUT
A33150	3 x 150	SM	1.4	2.5	36.6	2.5	46.6	3960	CUT
A33185	3 x 185	SM	1.6	2.6	40.5	2.5	50.7	4570	CUT
A33240	3 x 240	SM	1.7	2.8	45.5	2.5	56.1	5510	CUT
A33300	3 x 300	SM	1.8	3	47.1	2.5	58.1	6405	CUT

Electrical Data

Nom. Cross Section Area (mm ²)	Conductor		Inductance (mH/km)	Current - Carrying Capacity at 30° C *		Short circuit current at 1 sec Max. (kA)
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	
10	3.08	3.949	0.248	60	65	0.94
16	1.91	2.449	0.236	81	86	1.5
25	1.2	1.539	0.242	106	110	2.35
35	0.868	1.113	0.234	131	133	3.29
50	0.641	0.822	0.232	162	161	4.7
70	0.443	0.568	0.229	205	197	6.58
95	0.32	0.411	0.224	250	235	8.93
120	0.253	0.325	0.223	290	267	11.28
150	0.206	0.265	0.225	332	299	14.1
185	0.164	0.211	0.225	384	338	17.39
240	0.125	0.162	0.223	451	390	22.56
300	0.1	0.13	0.222	516	438	28.2

NA4XRY 4x(10-300)mm²

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Colour code:	blue, black, Brown, Grey
Laying up:	cores twisted in layers (if necessary with filling element(s))
Wrapping:	at least 1 layer of plastic tape
Bedding:	Polyvinyl Chloride (PVC)
Armour:	a layer of thin round galvanized steel wires, helically
Sheath:	UV resistant PVC (IEC 60502-1, DIN VDE 207 ST1)
sheath colour:	Black Ral 9005



Abbreviations

2X insulation & outer sheath of Crosslinked Polyethylene

fl reduced flame propagation

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Technical data

Temperature range:	
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during operation:	-20 °C up to +90 °C
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ambient temperature at storage:	up to 40 °C
Nominal voltage:	U /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

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4Core

Code No.	Dimensions – number of cores x conductor cross-section	Construction	Insulation thickness	sheath thickness	Diameter under Armour	Armour wire Diameter	External diameter	Cable weight	Packing *
	N x mm ²	RM/SM	nom. mm	Nom. mm	nom. mm	mm	mm	Nom. kg/km	
A3410	4 x 10	RM	0.7	1.8	15.2	1.25	21.3	800	CUT
A3416	4 x 16	RM	0.7	1.8	17.8	1.6	24.6	1160	CUT
A3425	4 x 25	RM	0.9	1.8	21.9	1.6	28.7	1405	CUT
A3435	4 x 35	RM	0.9	1.9	23.3	1.6	30.3	1750	CUT
A3450	4 x 50	SM	1	2	25.2	1.6	32.4	1850	CUT
A3470	4 x 70	SM	1.1	2.2	29.3	2	37.7	2630	CUT
A3495	4 x 95	SM	1.1	2.3	32.6	2	41.3	3150	CUT
A34120	4x 120	SM	1.2	2.5	36.7	2.5	46.7	4160	CUT
A34150	4 x 150	SM	1.4	2.6	40.9	2.5	51.1	4920	CUT
A34185	4 x 185	SM	1.6	2.8	45.2	2.5	55.8	5660	CUT
A34240	4 x 240	SM	1.7	3	50.8	2.5	61.8	6805	CUT
A34300	4 x 300	SM	1.8	3.2	56.1	2.5	67.5	7930	CUT
A342516	3 x 25/16	Rm/rm	0.9	1.8	20.9	1.6	27.9	1487	CUT
A343516	3 x 35/16	Rm/rm	0.9	1.8	21.9	1.6	28.8	1722	CUT
A345025	3 x 50/25	Sm/rm	1	1.9	24.2	1.6	31.2	2440	CUT
A347035	3 x 70/35	Sm/rm	1.1	2.1	27.8	2	36.4	2950	CUT
A349550	3 x 95/50	Sm/sm	1.1	2.2	31.3	2	39.8	4033	CUT
A34240120	3 x 240/120	Sm/sm	1.7	2.9	48.6	2.5	62.1	8162	CUT
A34300150	3 x 300/150	Sm/sm	1.8	3	53.5	2.5	69.2	9318	CUT

Electrical Data

Nom. Cross Section Area (mm ²)	Conductor			Current - Carrying Capacity at 30° C *			Short circuit current at 1 sec Max. (kA)
	DC Resistance at 20°C Max. (/km)	AC Resistance at 90°C Max. (/km)	Inductance (mH/km)	in air		in ground Max. (A)	
				Max. (A)			
10	3.08	3.949	0.248	66		71	0.94
16	1.91	2.449	0.236	90		93	1.5
25	1.2	1.539	0.242	119		120	2.35
35	0.868	1.113	0.234	146		143	3.29
50	0.641	0.822	0.232	171		165	4.7
70	0.443	0.568	0.229	215		201	6.58
95	0.32	0.411	0.224	263		240	8.93
120	0.253	0.325	0.223	307		273	11.28
150	0.206	0.265	0.225	355		308	14.1
185	0.164	0.211	0.225	405		346	17.39
240	0.125	0.162	0.223	476		399	22.56
300	0.100	0.130	0.222	544		448	28.20

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Sheath:	UV resistant PVC (IEC 60502-1, DIN VDE 207 ST1)
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Code No.	number of cores x conductor cross-section	Construction	Insulation thickness	sheath thickness	Diameter under Armour	Armour wire Diameter	External diameter	Cable weight	Packing*
	N x mm ²	RE/RM/SM	nom. mm	Nom. mm	nom. mm	mm	mm	Nom. kg/km	
A3510	5 x 10	RM	0.7	1.8	16.8	1.25	22.9	920	CUT
A3516	5 x 16	RM	0.7	1.8	19.7	1.6	26.5	1320	CUT
A3525	5 x 25	RM	0.9	1.8	24.3	1.6	31.1	1620	CUT
A3535	5 x 35	RM	0.9	1.9	25.9	1.6	32.9	1980	CUT
A3550	5 x 50	RM	1	2.2	30	2	38.3	2650	CUT

Electrical Data

Nom. Cross Section Area (mm ²)	Conductor			Inductance (mH/km)	Current - Carrying Capacity at 30° C *		Short circuit current at 1 sec Max. (kA)
	DC Resistance at 20°C Max. (/km)	AC Resistance at 90°C Max. (/km)			in air	in ground	
					Max. (A)	Max. (A)	
10	3.08	3.949	0.248	68	72	0.94	
16	1.91	2.449	0.236	93	94	1.5	
25	1.2	1.539	0.242	123	122	2.35	
35	0.868	1.113	0.234	151	145	3.29	
50	0.641	0.822	0.232	185	172	4.70	