

N2XRY 2x (1.5-400)mm²

CU/XLPE/SWA/PVC



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

Construction

Conductor:	Cu, Class 2 acc. DIN-VDE 0295, UNE-EN 60228, EN 60228 and 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
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 (EN 50363-4-1, DIN VDE 207 TM2)
sheath colour:	Black Ral 9005

Abbreviations

- Y insulation & outer sheath of PVC
- 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:	15 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




N2XRY 2x(1.5-400)mm²

CU/XLPE/SWA/ PVC

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	
442150	2 x 1.5	RM	0.7	1.8	8.1	0.9	13.5	350	CUT
442250	2 x 2.5	RM	0.7	1.8	8.9	0.9	14.3	395	CUT
44240	2 x 4	RM	0.7	1.8	10	0.9	15.4	470	CUT
44260	2 x 6	RM	0.7	1.8	11.1	0.9	16.5	560	CUT
442100	2 x 10	RM	0.7	1.8	13	1.25	19.1	825	CUT
442160	2 x 16	RM	0.7	1.8	15.1	1.25	21.2	1,080	CUT
44225	2 x 25	RM	0.9	1.8	18.5	1.6	25.3	1,575	CUT
44235	2 x 35	RM	0.9	1.8	19.7	1.6	26.5	1,810	CUT
44250	2 x 50	SM	1.0	1.8	19.3	1.6	26.1	1,900	CUT
44270	2 x 70	SM	1.1	2.0	22.1	1.6	29.4	2,440	CUT
44295	2 x 95	SM	1.1	2.1	25.6	2.0	33.8	2,325	CUT
442120	2 x 120	SM	1.2	2.2	28.4	2.0	36.8	3,955	CUT
442150	2 x 150	SM	1.4	2.3	31.4	2.0	40	4,730	CUT
442185	2 x 185	SM	1.6	2.5	35	2.5	45	6,055	CUT
442240	2 x 240	SM	1.7	2.7	39.3	2.5	49.7	7,350	CUT
442300	2 x 300	SM	1.8	2.8	43.8	2.5	54.4	8,815	CUT
442400	2 x 400	SM	2.0	3.1	49.8	2.5	61	11,200	CUT

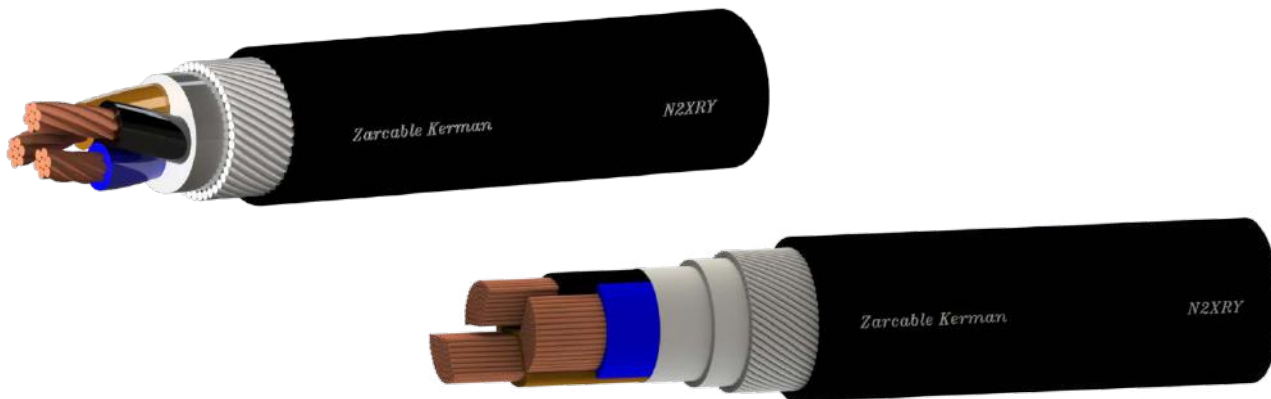
*)Packing: CUT= cable in different lengths on drum or reel, possible cutting at required

Current rating (AC) U₀/U (0.6/1KV) copper conductors Laid in air

Nominal cross-sectional area nom.(mm ²)						
	PVC	XLPE	PVC	XLPE	PVC	XLP
1.5	27	33	20	24	21	27
2.5	35	43	26	32	28	33
4	47	57	34	42	37	44
6	59	72	43	53	47	55
10	81	99	59	73	64	77
16	107	131	78	97	84	101
25	144	177	105	132	114	139
35	176	217	129	162	139	171
50	214	265	157	197	169	211
70	270	336	199	250	213	271
95	334	415	246	308	264	331
120	389	485	285	359	307	381
150	446	557	326	412	352	431
185	516	647	374	475	406	501
240	618	775	445	564	483	581
300	711	894	510	649	552	661
400	843	1061	597	761	646	771

N2XRY 3x(1.5-300)mm²

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Colour code:	blue, black, Brown(Y/G)
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 (EN 50363-4-1, DIN VDE 207 TM2)
sheath colour:	Black Ral 9005

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fl reduced flame propagation

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VDE 0276-603




N2XRY 3x(1.5-300)mm²

CU/XLPE/SWA/ PVC

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	RE/RM/SM	nom. mm	Nom. mm	nom. mm	mm	mm	Nom. kg/km	
443150	3 x 1.5	RM	0.7	1.8	8.5	0.9	13.9	375	CUT
443250	3 x 2.5	RM	0.7	1.8	9.4	0.9	14.8	435	CUT
44340	3 x 4	RM	0.7	1.8	10.6	0.9	16.0	525	CUT
44360	3 x 6	RM	0.7	1.8	11.8	0.9	17.2	635	CUT
443100	3x 10	RM	0.7	1.8	13.8	1.25	19.9	945	CUT
443160	3 x 16	RM	0.7	1.8	16.1	1.25	22.2	1,235	CUT
44325	3 x 25	RM	0.9	1.8	19.7	1.6	26.6	1,840	CUT
44335	3 x 35	RM	0.9	1.8	21	1.6	27.8	2,150	CUT
44350	3 x 50	SM	1.0	1.9	22.6	1.6	29.6	2,575	CUT
44370	3 x 70	SM	1.1	2.0	26.4	2.0	34.4	3,595	CUT
44395	3 x 95	SM	1.1	2.2	29.4	2.0	37.8	4,465	CUT
443120	3x 120	SM	1.2	2.3	32.5	2.0	41.1	5,340	CUT
443150	3 x 150	SM	1.4	2.5	36.6	2.5	46.6	6,925	CUT
443185	3 x 185	SM	1.6	2.6	40.5	2.5	50.7	8,185	CUT
443240	3 x 240	SM	1.7	2.8	45.5	2.5	56.1	10,190	CUT
443300	3 x 300	SM	1.8	3.0	47.1	2.5	58.1	11,980	CUT

*)Packing: CUT= cable in different lengths on drum or reel, possible cutting at required

Current rating (AC) $\geq U_0/U$ (0.6/1KV) copper conductors Laid in air

Nominal cross-sectional area nom.(mm ²)						
	PVC	XLPE	PVC	XLPE	PVC	XLPE
1.5	27	33	20	24	21	27
2.5	35	43	26	32	28	36
4	47	57	34	42	37	47
6	59	72	43	53	47	59
10	81	99	59	73	64	81
16	107	131	78	97	84	109
25	144	177	105	132	114	146
35	176	217	129	162	139	179
50	214	265	157	197	169	218
70	270	336	199	250	213	275
95	334	415	246	308	264	336
120	389	485	285	359	307	388
150	446	557	326	412	352	438
185	516	647	374	475	406	501
240	618	775	445	564	483	580
300	711	894	510	649	552	649

N2XRY 4x(1.5-300)mm²

CU/XLPE/SWA/PVC



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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(Y/G) , 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 (EN 50363-4-1, DIN VDE 207 TM2)
sheath colour:	Black Ral 9005

Abbreviations

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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 _o /U = 0.6/1 KV
Test voltage:core/core	3.5 KV AC for 5 Min
Minimal inner bending radius:	15 X Cable Φ
Behavior in fire:	IEC 60332-1
Flame propagation:	IEC 60332-3 cat.A
Conductor resistance:	Acc to IEC 60228

Design Standards

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N2XRY 4x(1.5-300)mm²

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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	
444150	4 x 1.5	RM	0.7	1.8	9.3	0.9	14.7	420	CUT
444250	4 x 2.5	RM	0.7	1.8	10.3	0.9	15.7	470	CUT
44440	4 x 4	RM	0.7	1.8	11.6	0.9	17	605	CUT
44460	4 x 6	RM	0.7	1.8	13	1.25	19.1	840	CUT
444100	4 x 10	RM	0.7	1.8	15.2	1.25	21.3	1110	CUT
444160	4 x 16	RM	0.7	1.8	17.8	1.6	24.6	1610	CUT
44425	4 x 25	RM	0.9	1.8	21.9	1.6	28.7	2185	CUT
44435	4 x 35	RM	0.9	1.9	23.3	1.6	30.3	2605	CUT
44450	4 x 50	SM	1.0	2.0	25.2	1.6	32.4	3200	CUT
4470	4 x 70	SM	1.1	2.2	29.3	2.0	37.7	4465	CUT
44495	4 x 95	SM	1.1	2.3	32.6	2.0	41.3	5585	CUT
444120	4x 120	SM	1.2	2.5	36.7	2.5	46.7	7220	CUT
444150	4 x 150	SM	1.4	2.6	40.9	2.5	51.1	8670	CUT
444185	4 x 185	SM	1.6	2.8	45.2	2.5	55.8	10345	CUT
444240	4 x 240	SM	1.7	3.0	50.8	2.5	61.8	12895	CUT
444300	4 x 300	SM	1.8	3.2	56.1	2.5	67.5	15540	CUT
4442516	3 x 25/16	Rm/rm	0.9	1.8	20.9	1.6	27.9	2030	CUT
4443516	3 x 35/16	Rm/rm	0.9	1.8	21.9	1.6	28.8	2350	CUT
4445025	3 x 50/25	Sm/rm	1.0	1.9	24.2	1.6	31.2	2905	CUT
4447035	3 x 70/35	Sm/rm	1.1	2.1	27.8	2.0	36.4	4060	CUT
4449550	3 x 95/50	Sm/sm	1.1	2.2	31.3	2.0	39.8	5060	CUT
44412070	3 x 120/70	Sm/sm	1.2	2.4	34.5	2.0	43.5	6200	CUT
44415070	3 x 150/70	Sm/sm	1.4	2.5	39.2	2.5	49.2	7820	CUT
44418595	3 x 185/95	Sm/sm	1.6	2.7	43.2	2.5	53.6	9360	CUT
4442412	3 x 240/120	Sm/sm	1.7	2.9	48.6	2.5	59.4	11630	CUT
4443015	3 x 300/150	Sm/sm	1.8	3.0	53.5	2.5	64.5	13970	CUT

*)Packing: CUT= cable in different lengths on drum or reel, possible cutting at required

Current rating (AC) $\pm U_0/U$ (0.6/1KV) copper conductors Laid in air

Nominal cross-sectional area nom.(mm ²)						
	PVC	XLPE	PVC	XLPE	PVC	XLPE
1.5	27	33	20	24	21	27
2.5	35	43	26	32	28	36
4	47	57	34	42	37	47
6	59	72	43	53	47	59
10	81	99	59	73	64	81
16	107	131	78	97	84	109
25	144	177	105	132	114	146
35	176	217	129	162	139	179
50	214	265	157	197	169	218
70	270	336	199	250	213	275
95	334	415	246	308	264	336
120	389	485	285	359	307	388
150	446	557	326	412	352	438
185	516	647	374	475	406	501
240	618	775	445	564	483	580
300	711	894	510	649	552	649

N2XRY 5x(1.5-240)mm²

CU/XLPE/SWA/PVC



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Construction

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Wrapping:	at least 1 layer of plastic tape
Bedding:	Polyvinyl Chloride (PVC)
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Sheath:	UV resistant PVC (EN 50363-4-1, DIN VDE 207 TM2)
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Nominal voltage:	U ₀ /U = 0.6/1 KV
Test voltage:core/core	3.5 KV AC for 5 Min
Minimal inner bending radius:	15 X Cable Φ
Behavior in fire:	IEC 60332-1
Flame propagation:	IEC 60332-3 cat.A
Conductor resistance:	Acc to IEC 60228

Design Standards

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VDE 0276-603




N2XRY 5x(1.5-240)mm²

CU/XLPE/SWA/PVC

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	RE/RM/SM	nom. mm	Nom. mm	nom. mm	mm	mm	Nom. kg/km	
445150	5 x 1.5	RM	0.7	1.8	10.2	0.9	15.6	460	CUT
445250	5 x 2.5	RM	0.7	1.8	11.3	0.9	16.7	555	CUT
44540	5 x 4	RM	0.7	1.8	12.8	1.25	18.9	800	CUT
44560	5 x 6	RM	0.7	1.8	14.3	1.25	20.4	965	CUT
445100	5 x 10	RM	0.7	1.8	16.8	1.25	22.9	1285	CUT
445160	5 x 16	RM	0.7	1.8	19.7	1.6	26.5	1860	CUT
44525	5 x 25	RM	0.9	1.8	24.3	1.6	31.1	2580	CUT
44535	5 x 35	RM	0.9	1.9	25.9	1.6	32.9	3075	CUT
44550	5 x 50	RM	1.0	2.2	30	2.0	38.3	4375	CUT
44570	5 x 70	RM	1.1	2.3	35.2	2.0	43.8	5715	CUT
44595	5 x 95	RM	1.1	2.4	39.9	2.5	49.7	7705	CUT
445120	5x 120	RM	1.2	2.6	44.5	2.5	54.6	9325	CUT
445150	5 x 150	RM	1.4	2.8	49.6	2.5	60.1	11260	CUT
445185	5 x 185	RM	1.6	3.0	55.4	2.5	66.4	13600	CUT
445240	5 x 240	RM	1.7	3.2	62.4	3.2	75.1	17805	CUT

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Nominal cross-sectional area nom.(mm ²)						
	PVC	XLPE	PVC	XLPE	PVC	XLPE
1.5	27	33	20	24	21	27
2.5	35	43	26	32	28	36
4	47	57	34	42	37	47
6	59	72	43	53	47	59
10	81	99	59	73	64	81
16	107	131	78	97	84	109
25	144	177	105	132	114	146
35	176	217	129	162	139	179
50	214	265	157	197	169	218
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