Prevent Cables
Catalogue

prevent.

A legacy of excellence in cable manufacturing.

prevent.

Introduction 6

Historical Development 7

Product Range and Industry Adaptation 8

Building Wires & Cables 9

Power Cables LV 19

Bare Wires & Ropes 55

Designation Codes for Harmonised Cables 62

Review of Cable Marks 64

Drums 65

Core Identification in multi-core Cables 67

Commitment to Quality 68

Market Reach and Adaptability 69

Technological Innovation in Production 70

Sustainability and Corporate Responsibility 71

Human Resources and Team Culture 72

Community Engagement 73

Conclusion 74

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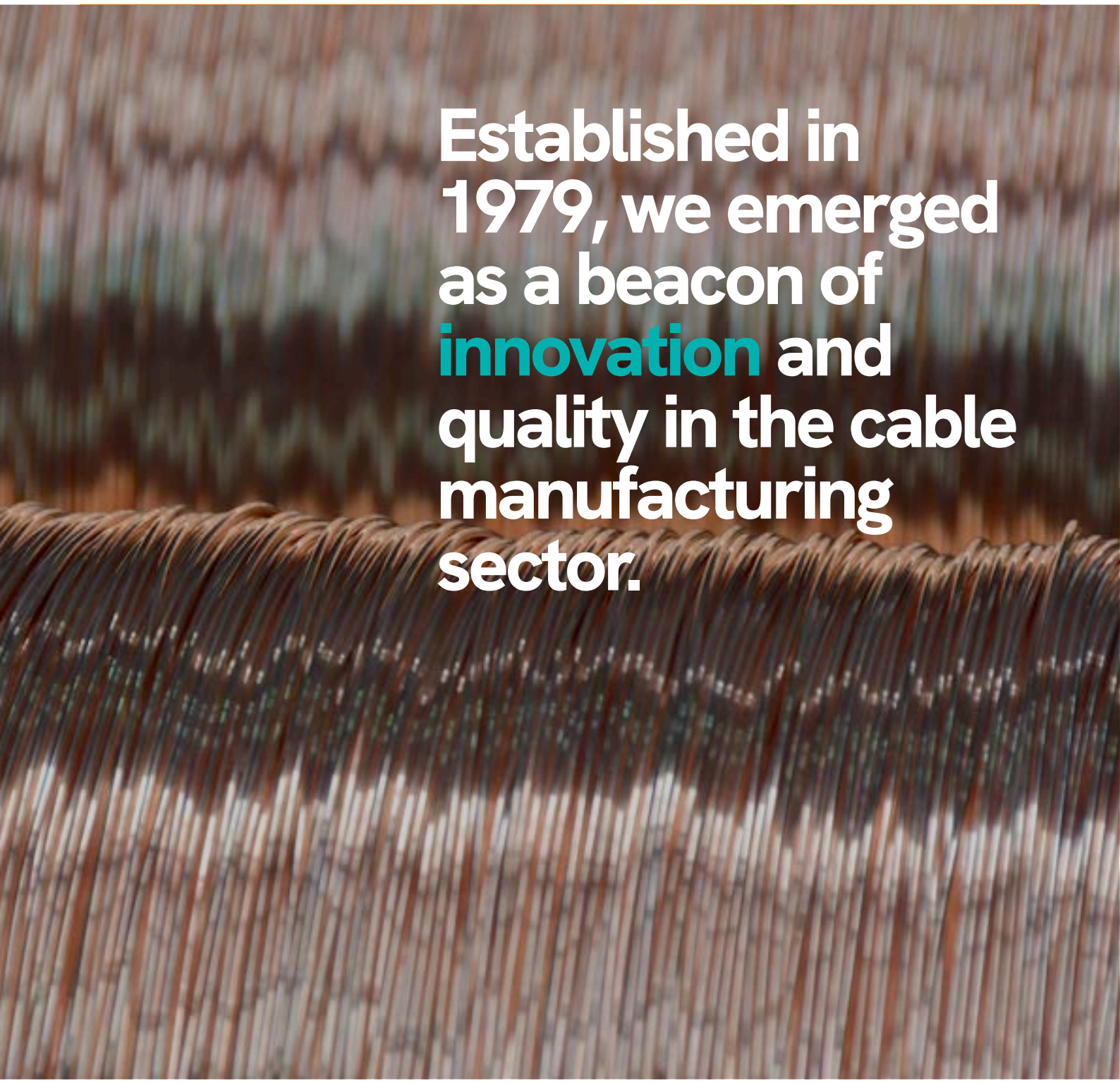


Established in 1979, we emerged as a beacon of innovation and quality in the cable manufacturing sector.

Originally known as Tvornica Kabela Duvno, the company has transformed into a premier supplier of cables, serving a diverse range of industries. Strategically located in Tomislavgrad, just a stone's throw from the European Union and the bustling port of Split, our facility symbolizes a commitment to excellence and efficiency in delivering top-tier cable solutions to our clients.

Our journey is marked by growth, adaptation, and a relentless pursuit of **quality**.

Initially part of the Energoinvest conglomerate, the company flourished in the late 1980s with a workforce of 390 dedicated professionals. Following privatization in 2001, we embraced a new chapter that culminated in our integration into the Prevent Group in 2015. This pivotal move allowed us to modernize our operations significantly, expanding our production capacity and enhancing our product offerings.

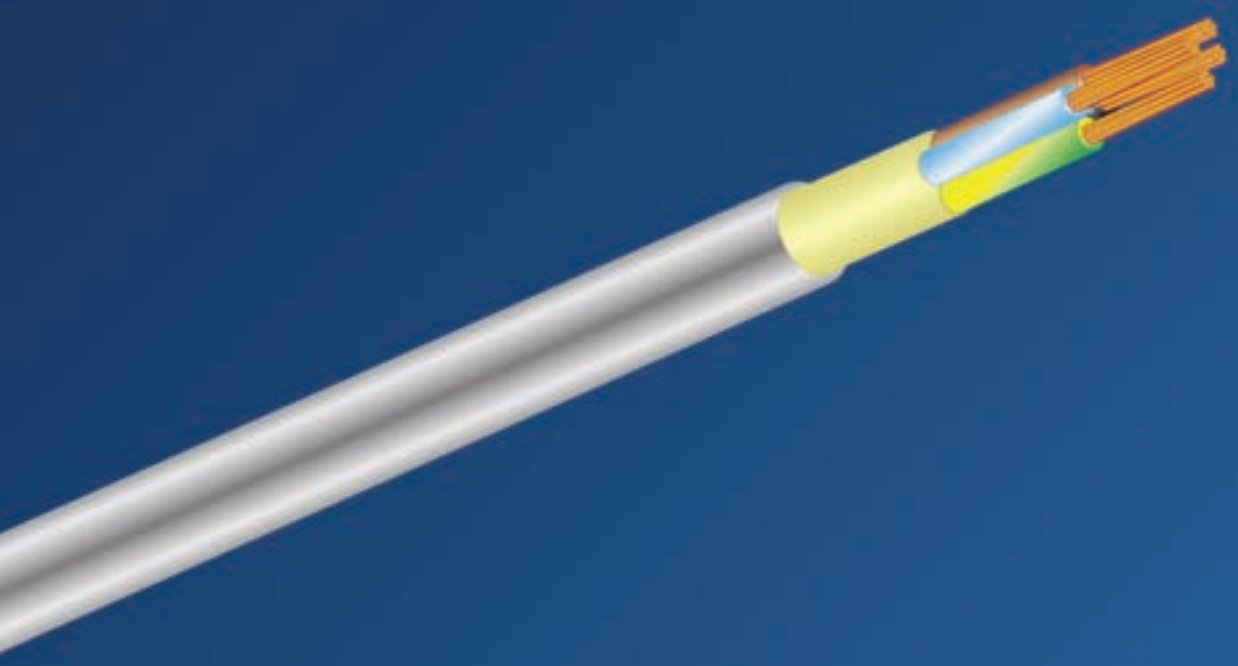
We pride ourselves on our extensive product range, which is meticulously designed to **meet the demands** of various industries.

Our key offerings include:

- Building Wires & Cables
- Power Cables LV
- Bare Wires & Ropes

Each product is developed with precision, adhering to rigorous international standards, ensuring they meet the diverse needs of our global clientele. With a production capacity of 10,000 tons per year, we proudly export approximately 90% of our output, reinforcing our position as a leading player in the cable manufacturing industry.

building
wires & cables



Prevent Cables offers a comprehensive range of building wires and cables designed for secure and reliable energy transmission.
Our products are crafted to meet the demands of modern construction, ensuring long-lasting performance in various conditions. We provide solutions that simplify installation while optimizing energy efficiency.
Each cable is engineered to meet rigorous industry standards, ensuring both safety and performance across diverse projects.

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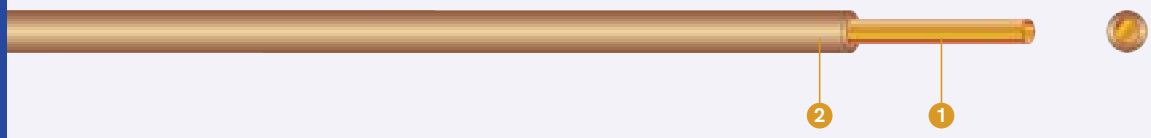
H07V-U

Installation cord 450/750 V



Construction

1. **Conductor:** Cu – class 1
2. **Insulation:** PVC

Type	Standard
H07V-U	HD 21.3 S3, IEC 227-5, VDE 0281-3, EN 50525-2-31
P	JUS N.C3.200

Specification

Norminal voltage	450/750 V
Test voltage	2500 V
Minimum temperature during installation	+5 °C
Operating temperature	-40 °C – +70 °C
Maximum operating temperature	+70 °C
Short circuit temperature	+160 °C/5s
Color of insulation	HD 308. S2
Flame-retardant test	EN 50265-2-1 IEC 60332-1
Minimum bending radius	4 x Ø cable

Application

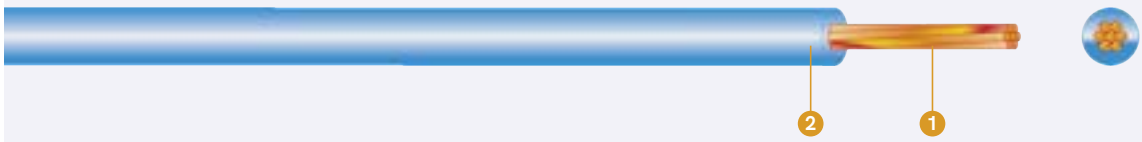
Type H07V-U is intended for use in dry locations where flexibility is required, e.g. installation in toolrooms, buildings, walls or conduits.

Technical data

No. of conductors and cross sectional area	Colours	Maximal resistance at 20 °C	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing/Coil
mm²		**Ω/km**	**mm**	**kg/km**	**kg/km**	**m/No**
1,5	● ⊘ ● ○ ● ● ●	12,10	2,8	14,4	20	100/coil
2,5	● ⊘ ● ○ ● ● ●	7,41	3,4	24	31	100/coil
4	● ⊘ ● ○ ● ● ●	4,61	3,9	38,4	46	100/coil
6	● ⊘ ● ○ ● ● ●	3,08	4,3	57,6	66	100/coil
10	● ⊘ ● ○ ● ● ●	1,83	5,5	96	111	100/coil

H07V-R

Installation cord 450/750 V



Construction

1. **Conductor:** Cu – class 1
2. **Insulation:** PVC

Type	Standard
H07V-R	HD 21.3 S3, IEC 227-5, VDE 0281-3, EN 50525-2-31
P	JUS N.C3.200

Specification

Nominal voltage	450/750 V
Test voltage	2500 V
Minimum temperature during installation	+5 °C
Operating temperature	-40 °C – +70 °C
Maximum operating temperature	+70 °C
Short circuit temperature	+160 °C/5s
Colour of insulation	HD 308. S2
Flame-retardant test	EN 50265-2-1 IEC 60332-1
Minimum bending radius	4 x Ø cable

Application

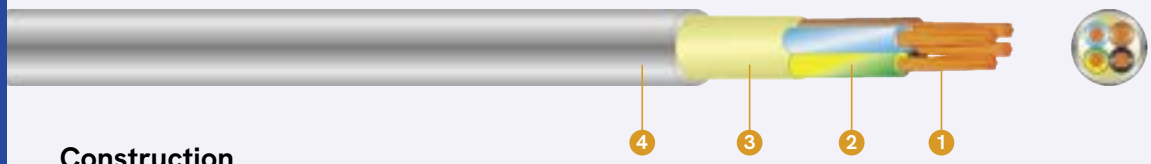
Type H07V-R is intended for use in dry locations where flexibility is required, e.g. installation in toolrooms, buildings, walls or conduits.

Technical data

No. of conductors and cross sectional area	Colours	Maximal resistance at 20 °C	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing/Coil
mm²		**Ω/km**	**mm**	**kg/km**	**kg/km**	**m/No**
10	● ⁄ ● ●	1,830	6,1	96	117	100/coil
16	● ⁄ ● ●	1,150	7,1	153,6	176	100/coil
25	● ⁄ ● ●	0,727	8,9	240	276	500/6
35	● ⁄ ● ●	0,524	10,0	336	371	500/6
50	● ⁄ ●	0,387	11,7	480	505	500/7
70	● ⁄ ●	0,268	13,6	672	710	500/7
95	● ⁄ ●	0,193	15,9	912	979	500/9
120	● ⁄	0,153	17,4	1152	1223	500/9
150	● ⁄	0,124	19,4	1440	1504	500/10
185	● ⁄	0,099	21,7	1776	1883	500/10
240	● ⁄	0,075	24,7	2304	2466	500/12

NYM

Installation cord 300/500 V



Construction

1. **Conductor:** Cu - class 1 and 2
2. **Insulation:** PVC
3. **Core:** EPDM
4. **Jacket:** PVC

Type	Standard
NYM	VDE 0250 Teil 204
PP	JUS N.C3.220

Specification

Norminal voltage	300/500 V
Test voltage	2000 V
Minimum temperature during installation	+5 °C
Operating temperature	-40 °C - +70 °C
Maximum operating temperature	+70 °C
Short circuit temperature	+160 °C/5s
Color of insulation	HD 308. S2
Flame-retardant test	EN 50265-2-1 IEC 60332-1
Minimum bending radius	4 x Ø cable
Coat colour	Gray

Application

Type NYM cable is intended for permanent installation, both industrial and house installation, in dry and wet conditions, for laying over or under concrete without special mechanical protection.

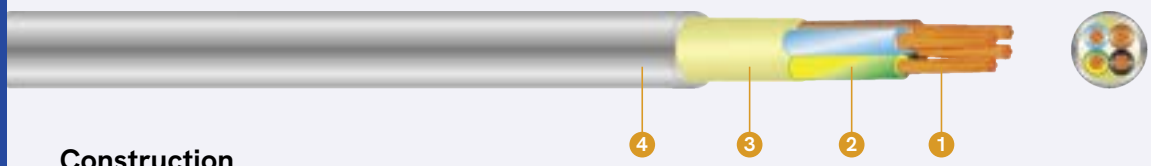
Technical data

No. of conductors and cross sectional area	Maximal resistance at 20 °C	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing/Coil
mm²	**Ω/km**	**mm**	**kg/km**	**kg/km**	**m/No**
2 x 1,5	12,10	8,5	29	103	100/coil
2 x 2,5	7,41	9,8	48	134	100/coil
2 x 4	4,61	11,4	77	206	100/coil
2 x 6	3,08	12,9	115	280	100/coil
2 x 10	1,83	15,6	190	467	100/coil
3 x 1,5	12,10	8,9	43	123	100/coil
3 x 2,5	7,41	10,4	72	176	100/coil
3 x 4	4,61	12,0	115	248	100/coil
3 x 6	3,08	14,8	173	342	100/coil
3 x 10	1,83	17,7	288	585	100/coil

No. of conductors and cross sectional area	Maximal resistance at 20 °C	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing/Coil
mm²	Ω/km	mm	kg/km	kg/km	m/No
3 x 10	1,83	17,7	288	630	500/8
3 x 16	1,15	19,2	461	790	500/10
3 x 25	0,727	23,4	720	1120	500/12
3 x 35	0,524	26,2	1008	1590	500/12
4 x 1,5	12,10	9,6	58	144	100/coil
4 x 2,5	7,41	11,3	96	212	100/coil
4 x 4	4,61	13,0	154	302	100/coil
4 x 6	3,08	14,9	230	416	100/coil
4 x 10	1,83	19,4	384	715	100/coil
4 x 10	1,83	19,4	384	760	500/8
4 x 16	1,15	21,9	614	987	500/10
4 x 25	0,727	26,9	960	1538	500/12
4 x 35	0,524	30,1	1344	2030	500/12
5 x 1,5	12,10	10,5	72	173	100/coil
5 x 2,5	7,41	12,3	120	256	100/coil
5 x 4	4,61	14,2	192	363	100/coil
5 x 6	3,08	16,2	288	506	100/coil
5 x 10	1,83	21,2	480	874	500/10
5 x 10	1,83	21,2	480	915	500/10
5 x 16	1,15	24,0	768	1213	500/12
5 x 25	0,727	29,6	1200	1895	500/12
5 x 35	0,524	33,2	1680	2508	500/14
7 x 1,5	12,10	11,6	101	208	100/coil
7 x 2,5	7,41	13,1	168	325	100/coil

NHXMH

Installation conductor with special properties in case of fire 300/500 V



Construction

1. **Conductor:** Cu – class 1 and 2
2. **Insulation:** Cross-linked PE, XLPE, type 2XI1
3. **Core:** HFFR halogen-free polymer compound
4. **Jacket:** HFFR halogen-free polymer compound type HM2

Type	Standard
NHXMH-0	DIN VDE 0250-214

Specification

Norminal voltage	300/500 V
Test voltage	2000 V
Minimum temperature during installation	-5 °C
Operating temperature	-40 °C – +70 °C
Maximum operating temperature	+70 °C
Short circuit temperature	+160 °C/5s
Color of insulation	HD 308. S2
Flame-retardant test	EN 50266-2-4 IEC 60332-3
Minimum bending radius	4 x Ø cable
Coat colour	Gray

Application

Type NHXMH building wire can be installed under or over concrete, in wet or dry locations, cable channels, open air, but it is not intended for direct burial or under the water. It is recommended for public buildings (hotels, hospitals, department stores, subways, theatres, cinemas etc.), and in all other public buildings where good flame properties in case of fire are required to prevent developing poisonous gases and corrosive HCL gases.

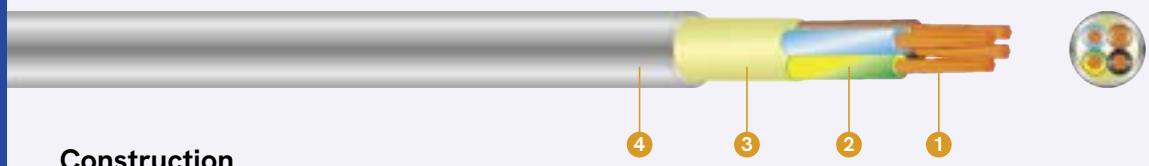
Technical data

No. of conductors and cross sectional area	Maximal resistance at 20 °C	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing/Coil
mm²	**Ω/km**	**mm**	**kg/km**	**kg/km**	**m/No**
2 x 1,5	12,1	8,3	29	107	100/coil
2 x 2,5	7,41	9,1	48	139	100/coil
2 x 4	4,61	10,5	77	195	100/coil
2 x 6	3,08	11,5	115	253	100/coil
2 x 10	1,83	14,8	190	420	100/coil
3 x 1,5	12,1	8,7	43	123	100/coil
3 x 2,5	7,41	9,5	72	164	100/coil
3 x 4	4,61	11,0	115	233	100/coil
3 x 6	3,08	12,5	173	321	100/coil
3 x 10	1,83	15,8	288	526	100/coil

No. of conductors and cross sectional area	Maximal resistance at 20 °C	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing/Coil
mm²	Ω/km	mm	kg/km	kg/km	m/No
4 x 1,5	12,1	9,3	58	143	100/coil
4 x 2,5	7,41	10,2	96	194	100/coil
4 x 4	4,61	12,3	154	292	100/coil
4 x 6	3,08	13,9	230	404	100/coil
4 x 10	1,83	17,3	384	642	100/coil
4 x 16	1,15	20,5	614	961	500/10
4 x 25	0,727	25,4	960	1501	500/12
4 x 35	0,524	28,2	1344	1959	500/12
5 x 1,5	12,1	10,0	72	167	100/coil
5 x 2,5	7,41	11,0	120	230	100/coil
5 x 4	4,61	13,7	192	360	100/coil
5 x 6	3,08	15,0	288	482	100/coil
5 x 10	1,83	18,8	480	774	100/coil
5 x 16	1,15	22,8	768	1183	500/10
5 x 25	0,727	27,8	1200	1816	500/12
5 x 35	0,524	31,3	1680	2418	500/14
7 x 1,5	13,3	10,9	101	207	100/coil
7 x 2,5	7,98	12,3	168	274	100/coil

AT-N05VV-U;R (YM)

Installation cord 300/500 V



Construction

1. **Conductor:** Cu - class 1 and 2
2. **Insulation:** PVC
3. **Core:** EPDM
4. **Jacket:** PVC

Type	Standard
AT-N05VV-U; R (YM)	ÖVE/ÖNORM E 8242
PP	JUS N.C3.220

Specification

Norminal voltage	300/500 V
Test voltage	2000 V
Minimum temperature during installation	+5 °C
Operating temperature	-40 °C - +70 °C
Maximum operating temperature	+70 °C
Short circuit temperature	+160 °C/5s
Color of insulation	HD 308. S2
Flame-retardant test	EN 50265-2-1 IEC 60332-1
Minimum bending radius	4 x Ø cable
Coat colour	Gray

Application

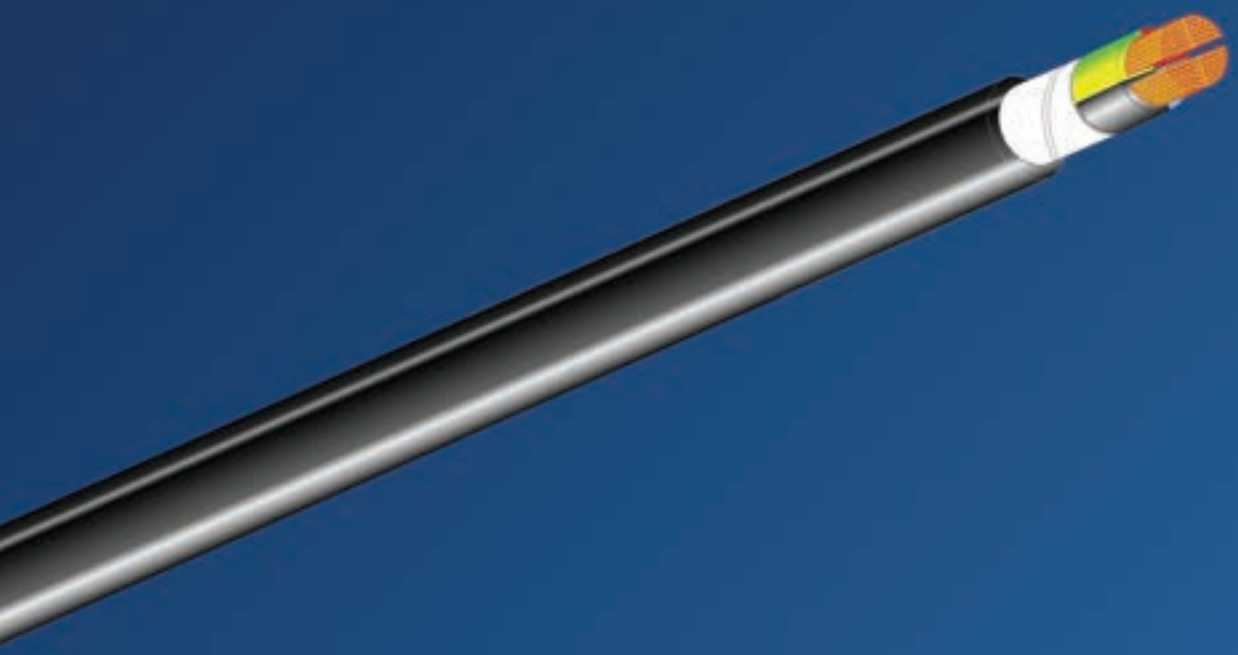
Type YM cable is intended for permanent installation, both industrial and house installation, in dry or wet conditions, for laying over or under concrete without special mechanical protection.

Technical data

No. of conductors and cross sectional area	Maximal resistance at 20 °C	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing/Coil
mm²	**Ω/km**	**mm**	**kg/km**	**kg/km**	**m/No**
2 x 1,5	12,10	8,3	29	98	100/coil
2 x 2,5	7,41	9,6	48	125	100/coil
2 x 4	4,61	11,1	77	198	100/coil
2 x 6	3,08	12,5	115	268	100/coil
2 x 10	1,83	16,2	190	456	100/coil
3 x 1,5	12,10	8,5	43	117	100/coil
3 x 2,5	7,41	10,1	72	165	100/coil
3 x 4	4,61	11,7	115	237	100/coil
3 x 6	3,08	14,4	173	332	100/coil
3 x 10	1,83	17,3	288	619	500/8

No. of conductors and cross sectional area	Maximal resistance at 20 °C	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing/Coil
mm²	Ω/km	mm	kg/km	kg/km	m/No
3 x 16	1,15	19,0	460	776	500/10
3 x 25	0,727	23,1	720	1105	500/11
3 x 35	0,524	25,8	1008	1576	500/12
4 x 1,5	12,10	9,4	58	134	100/coil
4 x 2,5	7,41	11,0	96	204	100/coil
4 x 4	4,61	12,7	154	294	100/coil
4 x 6	3,08	14,6	230	405	100/coil
4 x 10	1,83	19,1	384	756	500/8
4 x 16	1,15	21,7	614	972	500/10
4 x 25	0,727	26,4	960	1524	500/12
4 x 35	0,524	29,8	1344	2018	500/12
5 x 1,5	12,10	10,2	72	163	100/coil
5 x 2,5	7,41	12,0	120	245	100/coil
5 x 4	4,61	13,8	192	352	100/coil
5 x 6	3,08	15,9	288	496	100/coil
5 x 10	1,83	21,0	480	860	500/10
5 x 10	1,83	21,0	480	904	500/10
5 x 16	1,15	23,6	768	1201	500/12
5 x 25	0,727	29,2	1200	1881	500/12
5 x 35	0,524	32,8	1680	2498	500/14
7 x 1,5	12,10	11,4	101	197	100/coil
7 x 2,5	7,41	12,8	168	314	100/coil

power
cables lv

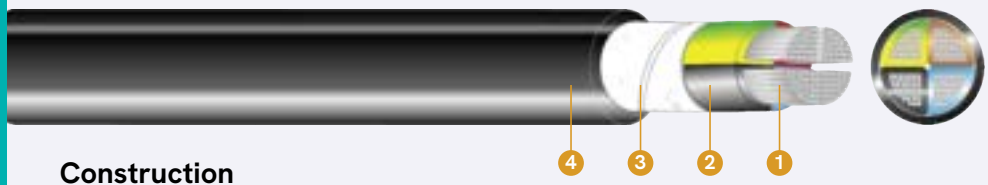


Our Low Voltage (LV) power cables are engineered for optimal efficiency and safety in energy distribution. Prevent Cables provides high-quality aluminum and copper cables that comply with the highest international standards, ensuring safe and stable power supply for a wide range of industrial and commercial applications. These cables are designed to perform reliably in even the most challenging environments, offering enhanced durability and longevity.

prevent.

NAYY

Power cables 0,6/1 kV



Construction

1. **Conductor:** Al
2. **Insulation:** PVC
3. **Core:** EPDM
4. **Jacket:** PVC

Type	Standard
NAYY	HD 603 S1: Part 3G. (DIN VDE 0276 T 603)
PP 00-A	JUS N.C5.220
Al-PVC/PVC	IEC 60502
Al-PVC/PVC	BS 6346

Specification

Norminal voltage	0,6/1 kV
Test voltage	4000 V
Minimum temperature during installation	-5 °C
Operating temperature	-30 °C – +70 °C
Maximum operating temperature	+70 °C
Short circuit temperature	+160 °C/5s
Color of insulation	HD 308. S2
Flame-retardant test	EN 50265-2-1 IEC 60332-1
Minimum bending radius	12 x Ø cable
Coat colour	Black

Application

A power cable suitable for laying in air, soil, water, concrete, in enclosed locations, cable ducts, power plants, industrial applications, city power grids - where mechanical damages are not expected, and cables are not exposed to excessive pulling forces.

Technical data

No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Aluminium weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
1 x 16	RM	1,91	-	-	12,1	46	150	1000	10
1 x 25	RM	1,20	110	160	13,2	73	196	1000	10
1 x 35	RM	0,868	135	193	13,7	102	240	1000	10
1 x 50	RM	0,641	166	230	15,5	145	315	1000	10
1 x 70	RM	0,443	210	283	17,5	203	405	1000	12
1 x 95	RM	0,320	259	340	19,6	276	520	1000	12
1 x 120	RM	0,253	302	389	21,1	348	615	1000	13
1 x 150	RM	0,206	345	436	23,2	435	740	1000	13

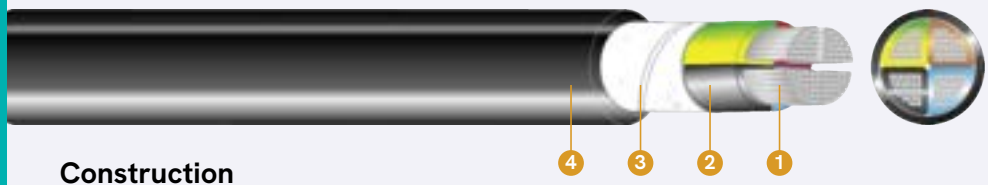
No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Aluminium weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
1 x 185	RM	0,164	401	496	25,8	537	904	1000	14
1 x 240	RM	0,125	479	578	28,2	696	1115	1000	15
1 x 300	RM	0,100	555	656	31,9	870	1435	1000	16
1 x 400	RM	0,077	653	756	34,9	1160	1820	500	15
1 x 500	RM	0,061	772	873	39,3	1450	2230	500	16
1 x 630	RM	0,049	915	1011	44,1	1827	2600	500	18
3 x 25/16	RM/RM	1,20/1,91	82	102	26,5	263	576	500	14
3 x 35/16	RM/RM	0,868/1,91	100	123	29,5	351	705	500	14
3 x 50/25	SM/RM	0,641/0,120	119	144	32,1	507	973	500	15
3 x 70/35	SM/RM	0,443/0,868	152	179	35,7	710	1256	500	14
3 x 95/50	SM/RM	0,320/0,641	186	215	41,3	971	1670	500	15
3 x 120/50	SM/RM	0,253/0,641	216	245	44,4	1189	1985	500	16
3 x 120/70	SM/RM	0,253/0,443	216	245	44,4	1247	2045	500	18
3 x 150/70	SM/RM	0,206/0,443	246	275	49,4	1508	2480	500	20
3 x 185/95	SM/RM	0,164/0,320	285	313	54,5	1885	3076	500	20
3 x 240/120	SM/RM	0,125/0,253	338	364	61,0	2436	3846	500	22
3 x 70/35	SM/SM	0,443/0,868	152	179	29,4	710	1286	500	14
3 x 95/50	SM/SM	0,320/0,641	186	215	32,9	971	1720	500	14
3 x 120/70	SM/SM	0,253/0,443	216	245	35,4	1247	2095	500	14
3 x 150/70	SM/SM	0,206/0,443	246	275	39,5	1508	2560	500	15
3 x 185/95	SM/SM	0,164/0,320	285	313	43,3	1885	3145	500	16
3 x 240/120	SM/SM	0,125/0,253	338	364	48,8	2436	3940	500	18
4 x 16	RM	1,91	-	-	23,1	185	690	500	12
4 x 25	RM	1,20	81	102	26,6	290	960	500	12
4 x 35	RM	0,868	99	123	29,2	406	1180	500	14
4 x 35	SM	0,686	99	123	26,5	406	805	500	12
4 x 50	SM	0,641	119	144	29,6	580	1060	500	14
4 x 70	SM	0,443	152	179	33,4	812	1418	500	14
4 x 95	SM	0,32	186	215	37,9	1102	1865	500	14
4 x 120	SM	0,253	216	245	41,3	1392	2258	500	16
4 x 150	SM	0,206	246	275	45,1	1740	2745	500	16
4 x 185	SM	0,164	285	313	49,4	2146	3355	500	18
4 x 240	SM	0,125	338	364	55,7	2784	4250	500	20
4 x 300	SM	0,100	400	419	61,0	3480	5170	500	22
5 x 16	RM	1,90	-	-	23,8	232	725	500	12
5 x 25	RM	1,20	82	102	28,8	363	1060	500	14
5 x 35	RM	0,868	100	123	31,8	507	1305	500	14
5 x 50	RM	0,641	119	144	37,5	725	1750	500	14
5 x 70	RM	0,443	152	179	43,4	1015	2427	500	16
5 x 95	RM	0,320	186	215	49,5	1380	3220	500	18
5 x 120	RM	0,253	216	245	54,5	1740	3890	500	20

Cu-Control Conductor (Black)

Cross sectional area	Overall diameter (approx)	Max. resistance of conductor at 20 °C	Net weight
mm²	mm	Ω/km	kg/km
1,5	2,9	12,08	20
2,5	3,5	7,136	32

NA2XY

Power cables 0,6/1 kV



Construction

1. **Conductor:** Al
2. **Insulation:** XLPE
3. **Core:** EPDM
4. **Jacket:** PVC

Type	Standard
NA2XY	HD 603 S1: Part 5G, DIN VDE 0276-603 5G-2
XP 00-A	JUS N.C5.220
Al-XLPE/PVC	IEC 60502

Specification

Norminal voltage	0,6/1 kV
Test voltage	4000 V
Minimum temperature during installation	-5 °C
Operating temperature	-30 °C – +90 °C
Maximum operating temperature	+90 °C
Short circuit temperature	+250 °C/5s
Color of insulation	HD 308. S2
Flame-retardant test	EN 50265-2-1 IEC 60332-1
Minimum bending radius	12 x Ø cable
Coat colour	Black

Application

A power cable suitable for laying in air, soil, water, concrete, in enclosed locations, cable ducts, power plants, industrial applications, city power grids - where mechanical damages are not expected, and cables are not exposed to excessive pulling forces.

Technical data

No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Aluminium weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
1 x 16	RM	1,91	-	-	10,2	46	122	1000	10
1 x 25	RM	1,20	136	177	11,9	73	169	1000	10
1 x 35	RM	0,868	166	212	13,0	102	206	1000	11
1 x 50	RM	0,641	205	252	14,9	145	267	1000	11
1 x 70	RM	0,443	260	310	17,0	203	358	1000	12
1 x 95	RM	0,320	321	372	18,9	276	451	1000	12
1 x 120	RM	0,253	376	425	20,7	348	546	1000	12
1 x 150	RM	0,206	431	476	22,7	435	655	500	12

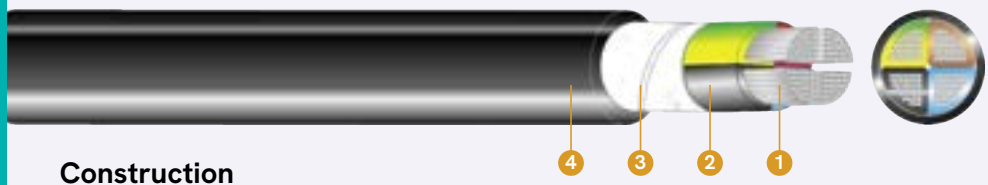
No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Aluminium weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
1 x 185	RM	0,164	501	541	25,1	537	800	500	13
1 x 240	RM	0,125	600	631	27,6	696	987	500	14
1 x 300	RM	0,100	696	716	31,9	870	1324	1000	16
1 x 400	RM	0,077	821	825	34,9	1160	1640	500	15
1 x 500	RM	0,061	971	952	39,3	1450	2030	500	16
1 x 630	RM	0,049	1151	1102	44,1	1827	2400	500	18
3 x 25/16	RM/RM	1,238/1,20	101	112	24,4	263	515	500	12
3 x 35/16	RM/RM	0,885/1,91	125	134	27,1	351	622	500	13
3 x 50/25	SM/RM	0,641/1,20	149	158	27,8	507	805	500	14
3 x 70/35	SM/RM	0,443/0,868	191	196	32,0	710	1085	500	14
3 x 95/50	SM/RM	0,320/0,641	234	234	35,6	971	1390	500	15
3 x 120/50	SM/RM	0,253/0,648	273	268	39,8	1189	1710	500	16
3 x 120/70	SM/RM	0,253/0,443	273	268	39,8	1247	1770	500	16
3 x 150/70	SM/RM	0,206/0,443	311	300	43,8	1508	2163	500	16
3 x 185/95	SM/RM	0,164/0,320	360	342	48,5	1885	2647	500	18
3 x 240/120	SM/RM	0,125/0,253	427	398	54,1	2436	3298	500	20
3 x 70/35	SM/SM	0,443/0,868	191	196	28,8	710	935	500	14
3 x 95/50	SM/SM	0,320/0,641	234	234	32,2	971	1120	500	14
3 x 120/70	SM/SM	0,253/0,443	273	268	34,6	1247	1430	500	14
3 x 150/70	SM/SM	0,206/0,443	311	300	38,5	1508	1950	500	15
3 x 185/95	SM/SM	0,164/0,320	360	342	42,4	1885	2345	500	16
3 x 240/120	SM/SM	0,125/0,253	427	398	47,2	2436	2980	500	18
4 x 16	RM	1,91	-	-	22,1	185	596	1000	12
4 x 25	RM	1,20	102	112	26,2	290	851	500	12
4 x 35	RM	0,868	126	135	28,9	406	1055	500	14
4 x 35	SM	0,868	126	135	25,8	406	690	500	12
4 x 50	SM	0,641	149	158	28,4	580	832	500	14
4 x 70	SM	0,443	191	196	32,4	812	1147	500	14
4 x 95	SM	0,32	234	234	32,4	1102	1460	500	14
4 x 120	SM	0,253	273	268	40,6	1392	1861	500	16
4 x 150	SM	0,206	311	300	44,8	1740	2318	500	16
4 x 185	SM	0,164	360	342	49,2	2146	2866	500	18
4 x 240	SM	0,125	427	398	54,9	2784	3616	500	20
4 x 300	SM	0,100	507	457	58,8	3480	4500	500	22
5 x 16	RM	1,91	-	-	23,4	232	625	500	12
5 x 25	RM	1,20	102	112	28,2	363	950	500	14
5 x 35	RM	0,868	126	135	31,0	507	1195	500	14
5 x 50	RM	0,641	149	158	36,8	725	1540	500	14
5 x 70	RM	0,443	191	196	42,8	1015	2240	500	16
5 x 95	RM	0,320	234	234	48,5	1380	3015	500	18
5 x 120	RM	0,253	273	268	53,6	1740	3580	500	20

Cu-Control Conductor (Black)

Cross sectional area	Overall diameter (approx)	Max. resistance of conductor at 20 °C	Net weight
mm²	mm	Ω/km	kg/km
1,5	2,9	12,08	20
2,5	3,5	7,136	32

E-AYY

Power cables 0,6/1 kV



Construction

1. **Conductor:** Al
2. **Insulation:** PVC
3. **Core:** EPDM
4. **Jacket:** PVC

Type	Standard
E-AYY	HD 603 S1: Part 3A

Specification

Norminal voltage	0,6/1 kV
Test voltage	4000 V
Minimum temperature during installation	-5 °C
Operating temperature	-30 °C – +70 °C
Maximum operating temperature	+70 °C
Short circuit temperature	+160 °C/5s
Color of insulation	HD 308. S2
Flame-retardant test	EN 50265-2-1 IEC 60332-1
Minimum bending radius	12 x Ø cable
Coat colour	Black

Application

A power cable suitable for laying in air, soil, water, concrete, in enclosed locations, cable ducts, power plants, industrial applications, city power grids - where mechanical damages are not expected, and cables are not exposed to excessive pulling forces.

Technical data

No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Aluminium weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
1 x 16	RM	1,91	-	-	12,1	46	150	1000	10
1 x 25	RM	1,2	110	160	13,2	73	196	1000	10
1 x 35	RM	0,868	135	193	13,7	102	240	1000	10
1 x 50	RM	0,641	166	230	15,1	145	302	1000	10
1 x 70	RM	0,443	210	283	16,9	203	386	1000	12
1 x 95	RM	0,320	259	340	19,9	276	500	1000	12
1 x 120	RM	0,253	302	389	20,4	348	586	1000	13
1 x 150	RM	0,206	345	436	22,6	435	716	1000	13

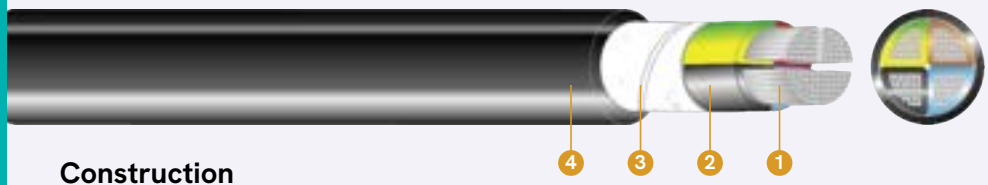
No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Aluminium weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
1 x 185	RM	0,164	401	496	24,2	537	884	1000	14
1 x 240	RM	0,125	479	578	27,2	696	1078	1000	15
1 x 300	RM	0,100	550	654	31,1	870	1385	1000	16
1 x 400	RM	0,077	653	756	33,9	1160	1760	500	15
1 x 500	RM	0,061	772	873	37,8	1450	2095	500	16
1 x 630	RM	0,049	-	-	42,4	1827	2415	500	18
3 x 25/16	RM/RM	1,20/1,91	81	102	26,5	263	576	500	14
3 x 35/16	RM/RM	0,868/1,91	99	122	29,5	351	705	500	14
3 x 50/25	SM/RM	0,641/1,20	119	144	31,8	507	945	500	15
3 x 70/35	SM/RM	0,443/0,868	152	179	34,9	710	1186	500	14
3 x 95/50	SM/RM	0,320/0,641	186	215	40,3	971	1563	500	15
3 x 120/50	SM/RM	0,253/0,641	216	245	43,5	1189	1845	500	16
3 x 120/70	SM/RM	0,253/0,443	216	245	43,5	1247	1936	500	18
3 x 150/70	SM/RM	0,206/0,443	246	275	48,6	1508	2340	500	20
3 x 185/95	SM/RM	0,164/0,320	285	313	53,5	1885	2970	500	20
3 x 240/120	SM/RM	0,125/0,320	338	364	59,2	2436	3650	500	22
3 x 70/35	SM/SM	0,443/0,868	152	179	28,9	710	1186	500	14
3 x 95/50	SM/SM	0,320/0,641	186	215	32,9	971	1610	500	14
3 x 120/70	SM/SM	0,253/0,443	216	245	34,6	1247	1906	500	14
3 x 150/70	SM/SM	0,206/0,443	246	275	38,5	1508	2430	500	15
3 x 185/95	SM/SM	0,164/0,320	285	313	42,0	1885	2985	500	16
3 x 240/120	SM/SM	0,125/0,253	338	364	46,8	2436	3740	500	18
4 x 16	RM	1,91	-	-	23,1	185	690	500	12
4 x 25	RM	1,20	81	102	26,7	290	960	500	12
4 x 35	RM	0,868	99	122	29,2	406	1180	500	14
4 x 35	SM	0,868	99	122	26,5	406	805	500	12
4 x 50	SM	0,641	119	144	29,4	580	980	500	14
4 x 70	SM	0,443	152	179	32,6	812	1290	500	14
4 x 95	SM	0,32	186	215	36,2	1102	1685	500	14
4 x 120	SM	0,253	216	245	40,2	1392	2030	500	16
4 x 150	SM	0,206	246	275	44,2	1740	2575	500	16
4 x 185	SM	0,164	285	313	48,0	2148	3120	500	18
4 x 240	SM	0,125	338	364	53,4	2784	4020	500	20
4 x 300	SM	0,10	400	419	58,2	3480	4860	500	22
5 x 16	RM	1,91	-	-	23,8	230	725	500	12
5 x 25	RM	1,20	82	102	28,8	363	1060	500	14
5 x 35	RM	0,868	100	123	31,8	507	1305	500	14
5 x 50	RM	0,641	119	144	36,8	725	1680	500	14
5 x 70	RM	0,443	152	179	42,6	1015	2268	500	16
5 x 95	RM	0,320	186	215	48,6	1380	3006	500	18
5 x 120	RM	0,253	216	245	53,4	1740	3580	500	20

Cu-Control Conductor (Black)

Cross sectional area	Overall diameter (approx)	Max. resistance of conductor at 20 °C	Net weight
mm²	mm	Ω/km	kg/km
1,5	2,9	12,08	20
2,5	3,5	7,136	32

E-AY2Y

Power cables 0,6/1 kV



Construction

1. **Conductor:** Al
2. **Insulation:** PVC
3. **Core:** EPDM
4. **Jacket:** HDPE

Type	Standard
E-AY2Y	HD 603 S1: Part 3A

Specification

Norminal voltage	0,6/1 kV
Test voltage	4000 V
Minimum temperature during installation	-5 °C
Operating temperature	-30 °C – +70 °C
Maximum operating temperature	+70 °C
Short circuit temperature	+160 °C/5s
Color of insulation	HD 308. S2
Coat colour	Black
Minimum bending radius	12 x Ø cable

Application

A power cable suitable for laying in air, soil, water, concrete, in enclosed locations, cable ducts, power plants, industrial applications, city power grids - where mechanical damages are not expected, and cables are not exposed to excessive pulling forces.

Technical data

No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Aluminium weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
1 x 16	RM	1,91	-	-	12,1	46	150	1000	10
1 x 25	RM	1,20	110	159	13,2	73	196	1000	10
1 x 35	RM	0,868	135	193	13,7	102	240	1000	10
1 x 50	RM	0,641	166	230	15,1	145	302	1000	10
1 x 70	RM	0,834	210	283	16,9	203	386	1000	12
1 x 95	RM	0,320	259	340	19,0	276	500	1000	12
1 x 120	RM	0,253	302	389	20,4	348	586	1000	13
1 x 150	RM	0,206	345	436	22,6	435	716	1000	13

No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Aluminium weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
1 x 185	RM	0,164	401	496	24,2	537	884	1000	14
1 x 240	RM	0,125	479	578	27,2	696	1790	1000	15
1 x 300	RM	0,100	550	654	31,1	870	1385	1000	16
1 x 400	RM	0,077	653	756	33,9	1160	1760	500	15
1 x 500	RM	0,061	772	873	37,8	1450	2095	500	16
1 x 630	RM	0,049	-	-	42,4	1827	2415	500	18
3 x 70/35	SM/SM	0,443/0,868	152	179	28,8	710	1186	500	14
3 x 95/50	SM/SM	0,320/0,641	186	215	32,9	971	1610	500	14
3 x 120/70	SM/SM	0,253/0,443	216	245	34,6	1247	1906	500	14
3 x 150/70	SM/SM	0,206/0,443	246	275	38,5	1508	2430	500	15
3 x 185/95	SM/SM	0,164/0,320	285	313	42,0	1885	2985	500	16
3 x 240/120	SM/SM	0,125/0,253	338	364	46,8	2436	3740	500	18
3 x 25/16	RM/RM	1,20/1,91	81	102	26,5	263	576	500	14
3 x 35/16	RM/RM	0,868/1,91	99	122	29,5	351	705	500	14
3 x 50/25	SM/RM	0,641/1,20	157	188	31,8	507	945	500	15
3 x 70/35	SM/RM	0,443/0,868	199	232	34,9	710	1186	500	14
3 x 95/50	SM/RM	0,320/0,641	246	242	40,3	971	1563	500	15
3 x 120/50	SM/RM	0,253/0,641	285	280	43,5	1189	1845	500	16
3 x 120/70	SM/RM	0,253/0,443	326	318	43,5	1247	1936	500	18
3 x 150/70	SM/RM	0,206/0,443	374	359	48,6	1508	2340	500	20
3 x 185/95	SM/RM	0,164/0,320	445	406	53,5	1885	2970	500	20
3 x 240/120	SM/RM	0,125/0,253	338	473	59,2	2436	3650	500	22
4 x 16	RM	1,91	-	-	23,6	185	690	500	12
4 x 25	RM	1,20	81	102	26,7	290	960	500	12
4 x 35	RM	0,868	99	122	29,2	420	1180	500	14
4 x 35	SM	0,868	99	122	26,5	406	805	500	12
4 x 50	SM	0,641	119	144	29,4	580	980	500	14
4 x 70	SM	0,443	152	179	32,6	812	1290	500	14
4 x 95	SM	0,32	186	215	36,2	1102	1685	500	14
4 x 120	SM	0,253	216	245	40,2	1392	2030	500	16
4 x 150	SM	0,206	246	275	44,2	1740	2575	500	16
4 x 185	SM	0,164	285	313	48,0	2146	3120	500	18
4 x 240	SM	0,125	338	364	53,4	2784	4020	500	20
4 x 300	SM	0,100	400	419	58,2	3480	4860	500	22
5 x 16	RM	1,91	-	-	23,8	230	725	500	12
5 x 25	RM	1,20	81	102	28,8	363	1060	500	14
5 x 35	RM	0,868	99	122	31,8	507	1305	500	14
5 x 50	RM	0,641	119	144	36,8	725	1680	500	14
5 x 70	RM	0,443	152	179	42,6	1015	2268	500	16
5 x 95	RM	0,320	186	215	48,6	1380	3006	500	18
5 x 120	RM	0,253	216	245	53,4	1740	3580	500	20

Cu-Control Conductor (Black)

Cross sectional area	Overall diameter (approx)	Max. resistance of conductor at 20 °C	Net weight
mm²	mm	Ω/km	kg/km
1,5	2,9	12,08	20
2,5	3,5	7,136	32

NAY2Y

Power cables 0,6/1 kV

Construction

1. **Conductor:** Al
2. **Insulation:** PVC
3. **Core:** EPDM
4. **Jacket:** HDPE

Type	Standard
NAY2Y	HD 603 S1: Part 3G. (DIN VDE 0276 T 603)
PP 00-A	JUS N.C5.220
Al-PVC/PVC	IEC 60502
Al-PVC/PVC	BS 6346

Specification

Norminal voltage	0,6/1 kV
Test voltage	4000 V
Minimum temperature during installation	-5 °C
Operating temperature	-30 °C – +70 °C
Maximum operating temperature	+70 °C
Short circuit temperature	+160 °C/5s
Color of insulation	HD 308. S2
Minimum bending radius	12 x Ø cable
Coat colour	Black

Application

A power cable suitable for laying in air, soil, water, concrete, in enclosed locations, cable ducts, power plants, industrial applications, city power grids - where mechanical damages are not expected, and cables are not exposed to excessive pulling forces.

Technical data

No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Aluminium weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
1 x 16	RM	1,91	-	-	12,1	46	120	1000	10
1 x 25	RM	1,20	110	160	13,2	73	170	1000	10
1 x 35	RM	0,868	135	193	13,7	102	205	1000	10
1 x 50	RM	0,641	166	230	15,5	145	275	1000	10
1 x 70	RM	0,443	210	283	17,5	203	365	1000	12
1 x 95	RM	0,320	259	340	19,6	276	468	1000	12
1 x 120	RM	0,253	302	389	21,1	348	570	1000	13
1 x 150	RM	0,206	345	436	23,2	435	685	1000	13

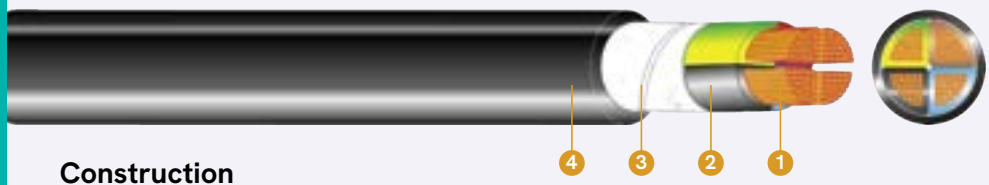
No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Aluminium weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
1 x 185	RM	0,164	401	496	25,8	537	834	1000	14
1 x 240	RM	0,125	479	578	28,2	696	1015	1000	15
1 x 300	RM	0,100	555	656	31,9	870	1320	1000	16
1 x 400	RM	0,077	653	759	34,9	1160	1640	500	15
1 x 500	RM	0,061	772	873	39,3	1450	2045	500	16
1 x 630	RM	0,049	915	1011	44,1	1827	2390	500	18
3 x 25/16	RM/RM	1,20/1,91	82	102	26,5	263	507	500	14
3 x 35/16	RM/RM	0,868/1,91	100	123	29,5	351	620	500	14
3 x 50/25	SM/RM	0,641/1,20	119	144	32,1	507	890	500	15
3 x 70/35	SM/RM	0,443/0,868	152	179	35,7	710	1076	500	14
3 x 95/50	SM/RM	0,320/0,641	186	215	41,3	971	1436	500	15
3 x 120/50	SM/RM	0,253/0,641	216	245	44,4	1189	1720	500	16
3 x 120/70	SM/RM	0,253/0,443	216	245	44,4	1247	1773	500	18
3 x 150/70	SM/RM	0,206/0,443	246	275	49,4	1508	2150	500	20
3 x 185/95	SM/RM	0,164/0,320	285	313	54,5	1885	2680	500	20
3 x 240/120	SM/RM	0,125/0,253	338	364	61,0	2436	3695	500	22
3 x 70/35	SM/SM	0,443/0,868	152	179	29,4	710	1096	500	14
3 x 95/50	SM/SM	0,320/0,641	186	215	32,9	971	1456	500	14
3 x 120/70	SM/SM	0,253/0,443	216	245	35,4	1247	1798	500	14
3 x 150/70	SM/SM	0,206/0,443	246	275	39,5	1508	2148	500	15
3 x 185/95	SM/SM	0,164/0,320	285	313	43,3	1885	2720	500	16
3 x 240/120	SM/SM	0,125/0,253	338	364	48,8	2436	3376	500	18
4 x 16	RM	1,91	-	-	23,1	185	590	500	12
4 x 25	RM	1,20	81	102	26,7	290	866	500	12
4 x 35	RM	0,868	99	122	29,2	420	1060	500	14
4 x 35	SM	0,868	99	122	26,5	420	760	500	12
4 x 50	SM	0,641	119	144	29,6	580	960	500	14
4 x 70	SM	0,443	152	179	33,4	812	1286	500	14
4 x 95	SM	0,320	186	215	37,9	1102	1725	500	14
4 x 120	SM	0,253	216	245	41,3	1392	2070	500	16
4 x 150	SM	0,206	246	275	45,1	1740	2575	500	16
4 x 185	SM	0,164	285	313	49,4	2146	3173	500	18
4 x 240	SM	0,125	338	364	55,7	2784	4008	500	20
4 x 300	SM	0,100	400	419	61,0	3480	4920	500	22
5 x 16	RM	1,91	-	-	23,8	230	650	500	12
5 x 25	RM	1,20	82	102	28,8	363	975	500	14
5 x 35	RM	0,868	100	123	31,8	507	1200	500	14
5 x 50	RM	0,641	119	144	37,5	725	1685	500	14
5 x 70	RM	0,443	152	179	43,4	1015	2260	500	16
5 x 95	RM	0,320	186	215	49,5	1380	2980	500	18
5 x 120	RM	0,253	216	245	54,5	1740	3630	500	20

Cu-Control Conductor (Black)

Cross sectional area	Overall diameter (approx)	Max. resistance of conductor at 20 °C	Net weight
mm²	mm	Ω/km	kg/km
1,5	2,9	12,08	20
2,5	3,5	7,136	32

NYY

Power cables 0,6/1 kV



Construction

1. **Conductor:** Cu – class 1 and 2
2. **Insulation:** PVC
3. **Core:** EPDM or PP tape
4. **Jacket:** PVC

Type	Standard
NYY	HD 603 S1.Part 3G (DIN VDE 0276 Teil 603)
PP 00	JUS N.C5.220
PVC/PVC	IEC 60502
PVC/PVC	BS 6346

Specification

Norminal voltage	0,6/1 kV
Test voltage	4000 V
Minimum temperature during installation	-5 °C
Operating temperature	-30 °C – +70 °C
Maximum operating temperature	+70 °C
Short circuit temperature	+160 °C/5s
Color of insulation	HD 308. S2
Flame-retardant test	EN 50265-2-1 IEC 60332-1
Minimum bending radius	12 x Ø cable
Coat colour	Black

Application

A power cable suitable for laying in air, soil, water, concrete, in enclosed locations, cable ducts, power plants, industrial applications, city power grids - where mechanical damages are not expected, and cables are not exposed to excessive pulling forces.

Technical data

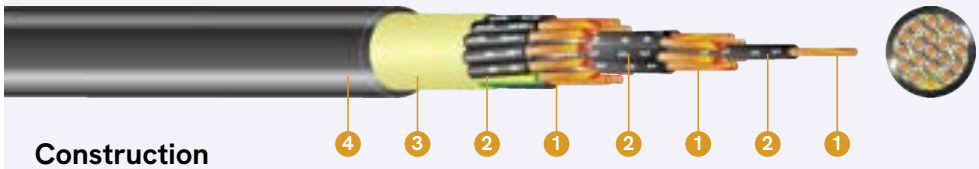
No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
1 x 1,5	RE	12,10	27	41	6,6	14	59	1000	6
1 x 2,5	RE	7,41	35	55	7,0	24	72	1000	6
1 x 4	RE	4,61	47	71	7,9	38	98	1000	7
1 x 6	RE	3,08	59	90	8,4	58	122	1000	7
1 x 10	RE	1,83	81	124	9,1	96	180	1000	7
1 x 10	RM	1,83	64	83	9,7	96	179	1000	7
1 x 16	RM	1,15	84	107	10,7	154	246	1000	8
1 x 25	RM	0,727	114	138	12,5	240	358	1000	9

No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
1 x 35	RM	0,524	139	164	13,6	336	462	1000	10
1 x 50	RM	0,387	169	195	15,4	480	612	1000	10
1 x 70	RM	0,268	213	238	17,2	672	830	1000	12
1 x 95	RM	0,193	264	286	19,5	912	1117	1000	12
1 x 120	RM	0,153	307	325	21,1	1152	1377	1000	14
1 x 150	RM	0,124	352	365	23,0	1440	1674	1000	14
1 x 185	RM	0,0991	406	413	25,7	1776	2094	1000	14
1 x 240	RM	0,0754	483	479	28,7	2304	2709	1000	16
1 x 300	RM	0,0601	557	541	31,5	2880	3328	500	14
1 x 400	RM	0,0470	646	614	34,5	3840	4250	500	18
1 x 500	RM	0,0366	747	693	38,2	4800	5200	500	20
1 x 630	RM	0,0283	1187	1468	42,0	6050	6500	500	22
2 x 1,5	RE	12,10	21	30	11,6	29	193	1000	8
2 x 2,5	RE	7,41	28	39	12,4	48	230	1000	9
2 x 4	RE	4,61	37	50	14,1	77	313	1000	9
2 x 6	RE	3,08	47	62	15,1	115	379	1000	10
2 x 10	RE	1,83	64	83	16,7	192	510	1000	10
2 x 10	RM	1,83	64	83	17,8	192	560	1000	12
2 x 16	RM	1,15	87	115	19,9	307	741	1000	12
2 x 25	RM	0,727	118	150	23,3	480	1076	1000	14
2 x 35	RM	0,524	149	183	26,0	672	1352	1000	14
3 x 1,5	RE	12,10	19	27	12,0	43	214	1000	9
3 x 2,5	RE	7,41	26	36	12,9	72	263	1000	9
3 x 4	RE	4,61	34	46	14,8	115	363	1000	10
3 x 6	RE	3,08	43	58	15,9	173	446	1000	10
3 x 10	RE	1,83	59	78	17,6	288	616	1000	11
3 x 10	RM	1,83	59	79	18,7	288	672	1000	12
3 x 16	RM	1,15	79	102	21,0	461	904	1000	12
3 x 25	RM	0,727	106	133	25,1	720	1327	500	12
3 x 35	RM	0,524	129	159	27,5	1008	1685	500	12
3 x 16/10	RM/RM	1,15/1,83	79	102	21,3	556	775	1000	12
3 x 25/10	RM/RM	0,727/1,83	106	133	25,5	816	1105	500	12
3 x 25/16	RM/RM	0,727/1,15	106	133	25,5	873	1155	500	12
3 x 35/16	RM/RM	0,524/1,15	129	159	28,3	1161	1456	500	12
3 x 35/25	SM/RM	0,524/0,727	129	159	28,3	1248	1538	500	13
3 x 35/25	RM/RM	0,524/0,727	122	155	28,3	1248	1538	500	13
3 x 50/25	SM/RM	0,387/0,727	157	188	30,1	1680	2029	500	12
3 x 70/35	SM/RM	0,268/0,524	199	232	33,6	2352	2750	500	14
3 x 70/50	SM/RM	0,268/0,387	199	232	33,6	2496	2900	500	14
3 x 95/50	SM/RM	0,193/0,387	246	280	38,7	3216	3780	500	15
3 x 120/70	SM/RM	0,153/0,268	285	318	28,5	4128	4715	500	15
3 x 150/70	SM/RM	0,124/0,268	326	359	46,2	4992	5650	500	16
3 x 185/95	SM/RM	0,099/0,193	374	406	50,9	6240	7146	500	18
3 x 240/120	SM/RM	0,075/0,153	445	473	56,1	8064	9175	500	20
3 x 50/35	SM/SM	0,387/0,524	180	210	29,5	1776	2250	500	12
3 x 70/35	SM/SM	0,268/0,524	188	225	33,3	2352	2850	500	13
3 x 95/50	SM/SM	0,193/0,387	232	271	37,6	3216	3860	500	14
3 x 120/70	SM/SM	0,153/0,268	269	309	40,3	4128	4775	500	15

No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
3 x 150/70	SM/SM	0,124/0,268	308	348	44,7	4992	5680	500	15
3 x 185/95	SM/SM	0,099/0,193	354	394	50,2	6240	7150	500	18
3 x 240/120	SM/SM	0,0754/0,153	419	458	55,5	8064	9185	500	20
4 x 1,5	RE	12,10	19	27	13,0	58	220	1000	10
4 x 2,5	RE	7,41	25	36	13,9	96	290	1000	10
4 x 4,0	RE	4,61	34	47	15,8	154	400	1000	11
4 x 6,0	RE	3,08	43	59	16,9	230	510	1000	11
4 x 10	RE	1,83	59	79	19,1	384	720	1000	12
4 x 16	RM	1,15	79	102	22,0	614	1050	1000	13
4 x 25	RM	0,727	106	133	27,8	960	1646	500	12
4 x 35	RM	0,524	129	159	30,5	1344	2117	500	14
4 x 35	SM	0,524	129	159	25,8	1344	1750	500	12
4 x 50	SM	0,387	157	188	29,9	1920	2253	500	12
4 x 70	SM	0,268	199	232	33,2	2688	3097	500	14
4 x 95	SM	0,193	246	280	38,6	3648	4245	500	16
4 x 120	SM	0,153	285	318	41,8	4608	5263	500	16
4 x 150	SM	0,124	326	359	46,7	5760	6502	500	16
4 x 185	SM	0,0991	374	406	51,3	7104	8065	500	20
4 x 240	SM	0,0754	445	473	58,3	9216	10583	500	22
5 x 1,5	RE	12,10	19	27	13,3	72	258	1000	10
5 x 2,5	RE	7,41	25	36	14,3	120	330	1000	10
5 x 4	RE	4,61	34	47	16,7	192	469	500	9
5 x 6	RE	3,08	43	59	18,1	288	599	500	9
5 x 10	RE	1,83	59	79	20,6	480	890	500	10
5 x 10	RM	1,830	59	78	22,4	480	961	500	10
5 x 16	RM	1,150	78	101	25,7	768	1354	500	12
5 x 25	RM	0,727	105	132	30,3	1200	1996	500	14
5 x 35	RM	0,524	129	159	34,6	1680	2631	500	14
5 x 50	RM	0,387	157	188	38,6	2400	3459	500	16
5 x 70	RM	0,268	199	232	44,1	3360	4735	500	16
5 x 95	RM	0,193	246	280	50,6	4560	6432	500	20

NYY signal cables

Signal cables



Construction

1. **Conductor:** Cu - class 1
2. **Insulation:** PVC
3. **Core:** EPDM
4. **Jacket:** PVC

Type	Standard
NYY	HD 603 S1.Part 3G (DIN VDE 0276 Teil 603)
PP 00-Y	JUS N.C5.220
PVC/PVC	IEC 60502
PVC/PVC	BS 6346

Specification

Norminal voltage	0,6/1 kV
Test voltage	4000 V
Minimum temperature during installation	-5 °C
Operating temperature	-30 °C - +70 °C
Maximum operating temperature	+70 °C
Short circuit temperature	+160 °C/5s
Color of insulation	HD 308. S2
Flame-retardant test	EN 50265-2-1 IEC 60332-1
Minimum bending radius	12 x Ø cable
Coat colour	Black

Application

A power cable suitable for laying in air, soil, water, concrete, in enclosed locations, cable ducts, power plants, industrial applications, city power grids - where mechanical damages are not expected, and cables are not exposed to excessive pulling forces.

Technical data

No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
7 x 1,5	RE	12,10	12	16	29,9	101	280	1000	10
7 x 2,5	RE	7,41	16	20	33,2	168	375	1000	10
7 x 4	RE	4,61	20	29	38,6	269	545	1000	12
8 x 1,5	RE	12,10	11	15	14,9	115	305	1000	10
8 x 2,5	RE	7,41	15	19	16,2	192	420	1000	10
8 x 4	RE	4,61	17	24	19,6	307	641	1000	12
10 x 1,5	RE	12,10	10	13	17,0	144	395	1000	12
10 x 2,5	RE	7,41	14	17	18,6	240	536	1000	12

No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
10 x 4	RE	4,61	18	26	22,9	387	790	1000	14
12 x 1,5	RE	12,10	10	12	17,5	173	435	1000	12
12 x 2,5	RE	7,41	13	16	19,2	288	595	1000	12
12 x 4	RE	4,61	16	22	24,0	460	876	1000	14
14 x 1,5	RE	12,10	9	12	19,1	202	480	1000	12
14 x 2,5	RE	7,41	13	15	20,0	336	670	1000	12
14 x 4	RE	4,61	15	20	25,1	538	990	1000	14
16 x 1,5	RE	12,10	8	10	19,1	230	540	1000	12
16 x 2,5	RE	7,41	12	14	21,8	384	678	1000	14
16 x 4	RE	4,61	13	19	26,3	614	1116	1000	14
19 x 1,5	RE	12,10	8	10	20,0	274	650	1000	12
19 x 2,5	RE	7,41	11	14	22,8	456	850	1000	14
19 x 4	RE	4,61	13	19	27,6	730	1265	1000	14

Other possible constructions

No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
21 x 1,5	RE	12,10	7	9	21,7	302	710	1000	14
21 x 2,5	RE	7,41	10	12	24,2	504	994	1000	14
24 x 1,5	RE	12,10	7	9	24,5	346	825	1000	14
24 x 2,5	RE	7,41	10	12	26,5	576	1136	1000	15
30 x 1,5	RE	12,10	7	9	25,1	432	925	1000	16
30 x 2,5	RE	7,41	9	11	27,6	720	1326	1000	16
40 x 1,5	RE	12,10	6	8	27,4	576	1205	1000	16
40 x 2,5	RE	7,41	9	10	30,6	960	1705	1000	18
60 x 1,5	RE	12,10	5	8	32,5	864	1695	1000	20
60 x 2,5	RE	7,41	8	9	36,5	1140	2452	1000	20

NY2Y

Power cables 0,6/1 kV

Construction

1. **Conductor:** Cu - class 1 and 2
2. **Insulation:** PVC
3. **Core:** EPDM or PP tape
4. **Jacket:** HDPE

Type	Standard
NY2Y	VDE 0276, Teil 603 (=HD 603 S1. Part 3G)

Specification

Norminal voltage	0,6/1 kV
Test voltage	4000 V
Minimum temperature during installation	-5 °C
Operating temperature	-30 °C - +70 °C
Maximum operating temperature	+70 °C
Short circuit temperature	+160 °C/5s
Color of insulation	HD 308. S2
Minimum bending radius	12 x Ø cable
Coat colour	Black

Application

A power cable suitable for laying in air, soil, water, concrete, in enclosed locations, cable ducts, power plants, industrial applications, city power grids - where mechanical damages are not expected, and cables are not exposed to excessive pulling forces.

Technical data

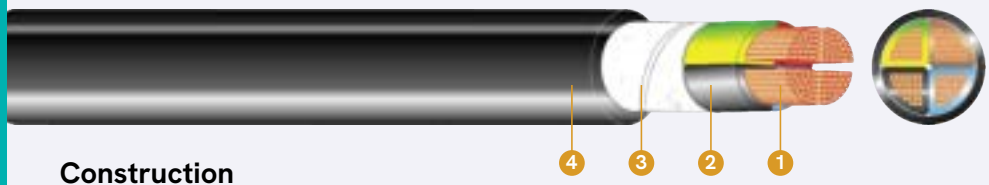
No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
1 x 1,5	RE	12,10	27	41	6,6	14	44	1000	6
1 x 2,5	RE	7,41	35	55	7,0	24	58	1000	6
1 x 4	RE	4,61	47	71	7,9	38	74	1000	7
1 x 6	RE	3,08	59	90	8,4	58	102	1000	7
1 x 10	RE	1,83	81	124	9,1	96	162	1000	7
1 x 10	RM	1,830	81	124	9,7	96	158	1000	7
1 x 16	RM	1,150	107	160	10,7	154	218	1000	8
1 x 25	RM	0,727	144	208	12,5	240	338	1000	9

No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
1 x 35	RM	0,524	176	250	13,6	336	442	1000	10
1 x 50	RM	0,387	214	296	15,4	480	573	1000	10
1 x 70	RM	0,268	270	365	17,2	672	792	1000	12
1 x 95	RM	0,193	334	438	19,5	912	1023	1000	12
1 x 120	RM	0,153	389	501	21,1	1152	1225	1000	14
1 x 150	RM	0,124	446	563	23,0	1440	1438	1000	14
1 x 185	RM	0,0991	516	639	25,7	1776	1967	1000	14
1 x 240	RM	0,0754	618	746	28,7	2304	2945	1000	16
1 x 300	RM	0,0601	717	848	31,5	2880	3150	500	14
1 x 400	RM	0,0440	843	975	34,5	3840	4035	500	18
1 x 500	RM	0,0366	994	1125	38,2	4800	5006	500	20
1 x 630	RM	0,0283	1180	1304	42,0	6050	6280	500	22
2 x 1,5	RE	12,10	22	34	11,6	29	125	1000	8
2 x 2,5	RE	7,41	30	45	12,4	48	161	1000	9
2 x 4	RE	4,61	40	59	14,1	77	230	1000	9
2 x 6	RE	3,08	51	73	15,1	115	305	1000	10
2 x 10	RE	1,83	63	82	16,7	192	453	1000	11
2 x 10	RM	1,83	63	98	17,8	192	594	1000	12
2 x 16	RM	1,15	85	127	19,9	307	654	1000	12
2 x 25	RM	0,727	112	163	22,3	480	975	1000	14
2 x 35	RM	0,524	148	178	26,0	672	1280	1000	14
3 x 1,5	RE	12,10	19	27	12,0	43	140	1000	9
3 x 2,5	RE	7,41	25	36	12,9	72	186	1000	9
3 x 4	RE	4,61	34	46	14,8	115	256	1000	10
3 x 6	RE	3,08	43	58	15,9	173	354	1000	10
3 x 10	RE	1,83	59	78	17,6	288	520	1000	11
3 x 10	RM	1,83	59	78	18,7	288	568	1000	12
3 x 16	RM	1,15	78	101	21,0	461	768	1000	12
3 x 25	RM	0,727	105	132	25,1	720	1196	500	12
3 x 35	RM	0,524	129	159	27,5	1008	1525	500	12
3 x 50/25	SM/RM	0,387/0,727	157	188	30,1	1680	1998	500	12
3 x 70/35	SM/RM	0,268/0,524	199	232	33,6	2352	2663	500	14
3 x 70/50	SM/RM	0,268/0,387	199	242	33,6	2496	2850	500	14
3 x 95/50	SM/RM	0,193/0,387	246	280	38,7	3216	3875	500	15
3 x 120/70	SM/RM	0,153/0,268	285	318	41,9	4128	4792	500	15
3 x 150/70	SM/RM	0,124/0,268	326	359	46,2	4992	5480	500	16
3 x 185/95	SM/RM	0,0991/0,193	374	406	50,9	6240	7005	500	18
3 x 240/120	SM/RM	0,0754/0,153	445	473	56,1	8064	9015	500	20
3 x 16/10	RM/RM	1,15/1,83	77	88	21,3	556	720	1000	12
3 x 25/10	RM/RM	0,727/1,83	98	120	25,5	816	1035	500	12
3 x 25/16	RM/RM	0,727/1,15	105	132	25,5	873	1106	500	12
3 x 35/16	RM/RM	0,524/1,15	129	159	28,3	1161	1385	500	12
3 x 35/25	RM/RM	0,524/0,727	134	162	28,3	1248	1463	500	13
3 x 50/35	SM/SM	0,387/0,524	157	188	29,5	1776	2040	500	12
3 x 70/35	SM/SM	0,268/0,524	199	232	33,3	2352	2630	500	13
3 x 95/50	SM/SM	0,193/0,387	246	280	37,6	3216	3590	500	14
3 x 120/70	SM/SM	0,153/0,268	285	318	40,3	4128	4586	500	15

No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
3 x 150/70	SM/SM	0,124/0,268	326	359	44,7	4992	5430	500	15
3 x 185/95	SM/SM	0,099/0,193	374	406	50,2	6240	6920	500	18
3 x 240/120	SM/SM	0,0754/0,153	445	473	55,5	8064	8910	500	20
4 x 1,5	RE	12,10	19	27	13,0	58	165	1000	9
4 x 2,5	RE	7,41	25	36	13,9	96	225	1000	10
4 x 4	RE	4,61	34	46	15,8	154	326	1000	10
4 x 6	RE	3,08	43	58	16,9	230	436	1000	12
4 x 10	RE	1,83	59	78	19,1	384	620	1000	12
4 x 10	RM	1,83	59	78	19,5	384	698	1000	12
4 x 16	RM	1,15	78	107	22,0	614	980	500	10
4 x 25	RM	0,727	105	132	27,8	960	1506	500	12
4 x 35	RM	0,524	129	159	30,5	1344	1992	500	14
4 x 35	SM	0,524	129	159	26,4	1344	1600	500	12
4 x 50	SM	0,387	157	188	29,9	1920	2080	500	12
4 x 70	SM	0,268	199	232	33,2	2688	2890	500	14
4 x 95	SM	0,193	246	280	38,6	3648	4210	500	16
4 x 120	SM	0,153	285	318	41,8	4608	5236	500	16
4 x 150	SM	0,124	326	359	46,7	5760	6315	500	16
4 x 185	SM	0,099	374	406	51,3	7104	7836	500	20
4 x 240	SM	0,075	445	473	58,3	9216	10450	500	22
5 x 1,5	RE	12,10	19	27	13,3	72	192	1000	10
5 x 2,5	RE	7,41	25	36	14,3	120	264	1000	10
5 x 4	RE	4,61	34	46	16,7	192	369	500	9
5 x 6	RE	3,08	43	58	18,1	288	518	500	9
5 x 10	RE	1,83	59	78	20,6	480	780	500	10
5 x 10	RM	1,83	59	78	22,4	480	813	500	10
5 x 16	RM	1,15	78	101	25,7	768	1198	500	12
5 x 25	RM	0,727	105	132	30,3	1200	1850	500	14
5 x 35	RM	0,524	129	159	34,0	1680	2430	500	14
5 x 50	RM	0,387	157	188	38,6	2400	3385	500	16
5 x 70	RM	0,268	199	232	44,1	3360	4653	500	16
5 x 95	RM	0,193	246	280	50,6	4560	6312	500	20

N2XY

Power cables 0,6/1 kV



Construction

1. **Conductor:** Cu - class 1 and 2
2. **Insulation:** XLPE
3. **Core:** EPDM or PP tape
4. **Jacket:** PVC

Type	Standard
N2XY	HD 603 S1: Part 5G, DIN VDE 0276 T 603
XP 00	JUS N.C5.230
XLPE/PVC	IEC 60502

Specification

Norminal voltage	0,6/1 kV
Test voltage	4000 V
Minimum temperature during installation	-5 °C
Operating temperature	-30 °C - +90 °C
Maximum operating temperature	+90 °C
Short circuit temperature	+250 °C/5s
Color of insulation	HD 308. S2
Flame-retardant test	EN 50265-2-1 IEC 60332-1
Minimum bending radius	12 x Ø cable
Coat colour	Black

Application

A power cable suitable for laying in air, soil, water, concrete, in enclosed locations, cable ducts, power plants, industrial applications, city power grids - where mechanical damages are not expected, and cables are not exposed to excessive pulling forces.

Technical data

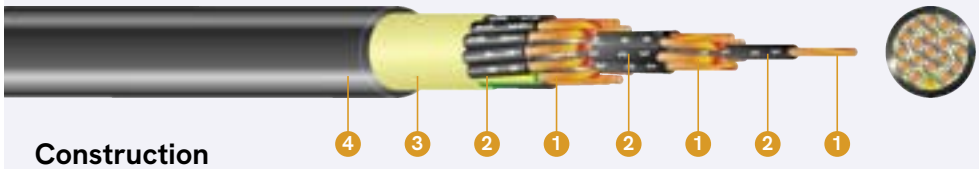
No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
1 x 1,5	RE	12,1	33	48	6,1	14	48	1000	6
1 x 2,5	RE	7,41	43	63	6,8	24	61	1000	6
1 x 4	RE	4,61	57	82	7,6	38	82	1000	7
1 x 6	RE	3,08	72	102	8,2	58	102	1000	7
1 x 10	RE	1,830	99	136	8,8	96	145	1000	7
1 x 10	RM	1,83	99	136	9,3	96	176	1000	7
1 x 16	RM	1,15	131	176	10,4	154	226	1000	8
1 x 25	RM	0,727	177	229	12,1	240	333	1000	9

No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
1 x 35	RM	0,524	217	275	13,2	336	430	1000	10
1 x 50	RM	0,387	265	326	14,8	480	570	1000	10
1 x 70	RM	0,268	336	400	16,9	672	789	1000	12
1 x 95	RM	0,193	415	480	18,9	912	1058	1000	12
1 x 120	RM	0,153	485	548	20,6	1152	1302	1000	14
1 x 150	RM	0,124	557	616	22,7	1440	1601	1000	14
1 x 185	RM	0,0991	646	698	25,1	1776	1995	1000	14
1 x 240	RM	0,0754	774	815	27,8	2304	2571	1000	16
1 x 300	RM	0,0601	901	927	30,8	2880	3201	500	14
1 x 400	RM	0,0470	1060	1064	33,1	3840	4120	500	18
1 x 500	RM	0,0366	1252	1227	36,6	4800	5032	500	20
1 x 630	RM	0,0283	1486	1421	40,5	6050	6380	500	22
2 x 1,5	RE	12,10	22	31	9,5	29	125	1000	8
2 x 2,5	RE	7,41	30	40	10,2	48	156	1000	9
2 x 4	RE	4,61	40	52	11,4	77	215	1000	9
2 x 6	RE	3,08	51	64	12,4	115	280	1000	10
2 x 10	RE	1,83	62	82	14,2	192	412	1000	12
2 x 10	RM	1,83	74	86	15,4	192	435	1000	12
2 x 16	RM	1,15	98	112	17,4	307	602	1000	12
2 x 25	RM	0,727	133	145	21,4	480	925	1000	14
2 x 35	RM	0,524	162	174	23,8	672	1195	1000	14
3 x 1,5	RE	12,10	24	30	9,9	43	145	1000	9
3 x 2,5	RE	7,41	32	40	10,8	72	185	1000	9
3 x 4	RE	4,61	42	52	12,0	115	251	1000	9
3 x 6	RE	3,08	53	64	13,1	173	330	1000	10
3 x 10	RE	1,83	73	86	15,4	288	503	1000	10
3 x 10	RM	1,83	73	86	16,3	288	532	1000	12
3 x 16	RM	1,15	96	111	18,5	461	746	1000	12
3 x 25	RM	0,727	130	143	22,7	720	1154	500	12
3 x 35	RM	0,524	130	173	25,3	1008	1508	500	12
3 x 16/10	RM/RM	1,15/1,83	98	112	19,6	556	689	500	12
3 x 25/16	RM/RM	0,727/1,15	133	145	23,9	874	1045	500	12
3 x 35/16	RM/RM	0,524/1,15	133	174	26,6	1161	1333	500	12
3 x 50/25	SM/RM	0,387/0,727	197	206	28,1	1680	1892	500	13
3 x 70/35	SM/RM	0,268/0,524	250	254	32,2	2352	2648	500	14
3 x 95/50	SM/RM	0,193/0,387	308	305	35,8	3216	3591	500	14
3 x 120/70	SM/RM	0,153/0,268	359	348	40,0	4128	4582	500	15
3 x 150/70	SM/RM	0,125/0,268	412	392	43,9	4992	5488	500	15
3 x 185/95	SM/RM	0,0991/0,193	475	444	48,8	6240	6964	500	18
3 x 240/120	SM/RM	0,0754/0,153	564	517	54,2	8064	8864	500	20
3 x 50/35	SM/SM	0,387/0,524	53	64	26,5	1776	1970	500	12
3 x 70/35	SM/SM	0,268/0,524	73	86	30,2	2352	2680	500	13
3 x 95/50	SM/SM	0,193/0,387	96	111	34,2	3216	3580	500	14
3 x 120/70	SM/SM	0,153/0,387	130	143	36,5	4128	4460	500	14
3 x 150/70	SM/SM	0,125/0,387	160	173	40,8	4992	5152	500	16
3 x 185/95	SM/SM	0,0991/0,193	195	205	46,4	6240	6523	500	18
3 x 240/120	SM/SM	0,0754/0,153	247	252	51,3	8064	8680	500	18
4 x 1,5	RE	12,10	24	31	11,2	58	180	1000	9

No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
4 x 2,5	RE	7,41	32	40	12,2	96	234	1000	9
4 x 4	RE	4,61	42	52	13,8	154	327	1000	10
4 x 6	RE	3,08	53	64	15,0	230	425	1000	10
4 x 10	RE	1,83	74	86	17,2	384	624	1000	10
4 x 10	RM	1,83	74	86	18,3	384	671	1000	12
4 x 16	RM	1,15	98	112	21,0	614	955	1000	14
4 x 25	RM	0,727	133	145	25,7	960	1471	500	12
4 x 35	RM	0,524	162	174	28,4	1344	1906	500	14
4 x 35	SM	0,524	162	174	25,2	1344	1580	500	12
4 x 50	SM	0,387	197	206	28,1	1920	2086	500	14
4 x 70	SM	0,268	250	254	32,1	2688	2956	500	14
4 x 95	SM	0,193	308	305	36,0	3648	4012	500	14
4 x 120	SM	0,153	359	348	40,2	4608	4998	500	16
4 x 150	SM	0,124	412	392	44,3	5760	6189	500	16
4 x 185	SM	0,099	475	444	49,0	7104	7762	500	18
4 x 240	SM	0,075	564	517	54,8	9216	10096	500	20
5 x 1,5	RE	12,10	24	31	13,3	72	285	1000	10
5 x 2,5	RE	7,41	32	40	14,3	120	330	1000	10
5 x 4	RE	4,61	42	52	16,7	192	469	500	9
5 x 6	RE	3,08	53	64	18,1	288	599	500	9
5 x 10	RE	1,83	74	86	21,3	480	913	500	9
5 x 10	RM	1,83	74	86	22,4	480	961	500	10
5 x 16	RM	1,15	98	110	25,7	768	1354	500	12
5 x 25	RM	0,727	133	143	30,3	1200	1996	500	14
5 x 35	RM	0,524	162	174	34,0	1680	2631	500	14
5 x 50	RM	0,387	197	206	36,5	2400	3100	500	14
5 x 70	RM	0,268	250	254	39,9	3360	4206	500	16
5 x 95	RM	0,193	308	305	44,5	4560	5620	500	18

N2XY signal cables

Signal cables



Construction

1. **Conductor:** Cu – class 1
2. **Insulation:** XLPE
3. **Core:** EPDM
4. **Jacket:** PVC

Type	Standard
N2XY	HD 603 S1: Part 5G, DIN VDE 0276 T 603
XP 00	JUS N.C5.230
XLPE/PVC	IEC 60502

Specification

Norminal voltage	0,6/1 kV
Test voltage	4000 V
Minimum temperature during installation	-5 °C
Operating temperature	-30 °C – +90 °C
Maximum operating temperature	+90 °C
Short circuit temperature	+250 °C/5s
Color of insulation	HD 308. S2
Flame-retardant test	EN 50265-2-1 IEC 60332-1
Minimum bending radius	12 x Ø cable
Coat colour	Black

Application

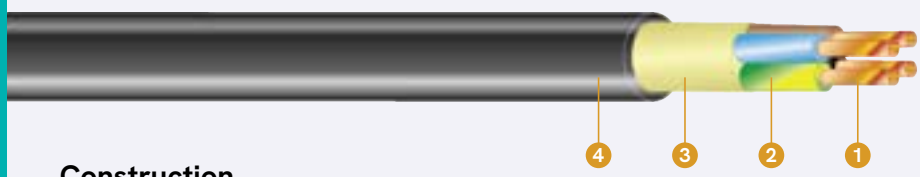
A power cable suitable for laying in air, soil, water, concrete, in enclosed locations, cable ducts, power plants, industrial applications, city power grids - where mechanical damages are not expected, and cables are not exposed to excessive pulling forces.

Technical data

No. of conductors and cross sectional area	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²	Ω/km	A	A	mm	kg/km	kg/km	m	No
7 x 1,5	12,1	16	18	12,6	101	302	1000	10
7 x 2,5	7,41	21	24	13,8	168	395	1000	10
10 x 1,5	12,1	13	15	15,3	144	425	1000	12
10 x 2,5	7,41	18	20	16,7	240	560	1000	12
12 x 1,5	12,1	13	14	15,7	173	464	1000	12
12 x 2,5	7,41	17	19	17,2	288	620	1000	12
14 x 1,5	12,1	12	14	16,4	202	573	1000	12
14 x 2,5	7,41	16	18	18,0	336	690	1000	12
19 x 1,5	12,1	11	12	18,0	274	641	1000	12
19 x 2,5	7,41	14	16	19,8	456	918	1000	14
21 x 1,5	12,1	10	11	18,8	302	772	1000	14
21 x 2,5	7,41	14	15	24,2	504	1060	1000	14

N2XH

Halogen-free flame cables for power supply 0,6/1 kV



Construction

1. **Conductor:** Cu – class 1 and 2
2. **Insulation:** Cross-linked PE, XLPE, type 2XI1
3. **Core:** HFFR halogen-free polymer compound
4. **Jacket:** HFFR polymer compound type HM4

Type	Standard
N2XH	HD 604 S1 P5-G

Specification

Norminal voltage	0,6/1 kV
Test voltage	4000 V
Minimum temperature during installation	-5 °C
Operating temperature	-30 °C – +90 °C
Maximum operating temperature	+90 °C
Short circuit temperature	+250 °C/5s
Color of insulation	HD 308. S2
Flame-retardant test	EN 50266-2-4 IEC 60332-3
Minimum bending radius	12 x Ø cable
Coat colour	Black

Application

Type N2XH building wire can be installed under or over concrete, in wet or dry locations, cable channels, open air, but it is not intended for direct burial or under the water. It is recommended for public buildings (hotels, hospitals, department stores, subways, theatres, cinemas etc.), and in all other public buildings where good flame properties in case of fire are required to prevent developing poisonous gases and corrosive HCL gases.

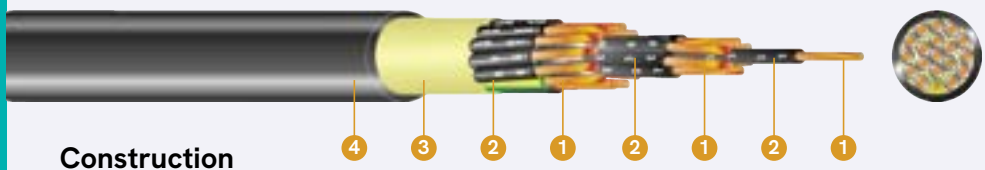
Technical data

No. of conductors and cross sectional area	Conductor shape	Maximal resistance at 20 °C	Current carrying capacities in air	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	mm	kg/km	kg/km	m	No
1 x 4	RE	4,61	40	6,4	38	73	1000	8
1 x 6	RE	3,08	52	6,9	58	94	1000	8
1 x 10	RE	1,83	71	7,8	96	135	1000	8
1 x 10	RM	1,83	71	8,2	96	147	1000	8
1 x 16	RM	1,15	96	9,3	154	207	1000	9
1 x 25	RM	0,727	119	11,1	240	312	1000	9
1 x 35	RM	0,524	147	12,2	336	407	1000	9
1 x 50	RM	0,387	179	13,8	480	542	1000	10
1 x 70	RM	0,268	229	15,8	672	759	1000	12
1 x 95	RM	0,193	278	17,8	912	1024	1000	14
1 x 120	RM	0,153	322	19,7	1152	1274	1000	14
1 x 150	RM	0,124	371	21,8	1440	1572	1000	14
1 x 185	RM	0,099	424	23,9	1776	1970	1000	14
1 x 240	RM	0,0754	500	27,2	2304	2547	1000	16

No. of conductors and cross sectional area	Conductor shape	Maximal resistance at 20 °C	Current carrying capacities in air	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	mm	kg/km	kg/km	m	No
2 x 1,5	RE	12,1	29	8,9	29	117	1000	7
2 x 2,5	RE	7,41	38	10,2	48	150	1000	8
2 x 4	RE	4,61	51	10,7	77	197	1000	9
2 x 6	RE	3,08	64	12,3	115	275	1000	9
2 x 10	RE	1,83	86	13,9	192	390	1000	10
2 x 10	RM	1,82	88	15,0	192	428	1000	10
2 x 16	RM	1,15	110	16,9	307	589	1000	12
2 x 25	RM	0,727	138	20,8	480	912	1000	14
2 x 35	RM	0,524	171	22,8	672	1162	1000	14
3 x 1,5	RE	12,1	24	9,2	43	135	1000	9
3 x 2,5	RE	7,41	32	10,1	72	177	1000	9
3 x 4	RE	4,61	42	11,3	115	243	1000	10
3 x 6	RE	3,08	53	12,6	173	324	1000	10
3 x 10	RE	1,83	74	14,6	288	480	1000	10
3 x 10	RM	1,83	74	15,7	288	529	1000	12
3 x 16	RM	1,15	98	17,8	461	748	1000	12
3 x 25	RM	0,727	133	22,1	720	1150	500	12
3 x 35	RM	0,524	162	24,4	1008	1498	500	12
4 x 1,5	RE	12,1	24	9,83	58	157	1000	9
4 x 2,5	RE	7,41	32	10,8	96	209	1000	10
4 x 4	RE	4,61	42	12,0	154	290	1000	10
4 x 6	RE	3,08	53	13,2	230	401	1000	12
4 x 10	RE	1,83	74	15,8	384	590	1000	12
4 x 10	RM	1,83	74	16,4	384	630	1000	12
4 x 16	RM	1,15	98	19,5	614	922	500	10
4 x 25	RM	0,727	133	23,2	960	1425	500	12
4 x 35	RM	0,524	162	26,7	1344	1808	500	12
5 x 1,5	RE	12,1	24	10,9	72	191	1000	10
5 x 2,5	RE	7,41	32	12,1	120	256	1000	10
5 x 4	RE	4,61	42	13,5	192	357	500	9
5 x 6	RE	3,08	53	14,9	288	481	500	9
5 x 10	RE	1,83	74	17,2	480	710	500	9
5 x 10	RM	1,83	74	18,9	480	780	500	10
5 x 16	RM	1,15	98	21,8	768	1135	500	12
5 x 25	RM	0,727	133	26,4	1200	1690	500	13
5 x 35	RM	0,524	162	29,4	1680	2100	500	13
4 x 35	SM	0,524	162	24,2	1344	1620	500	12
4 x 50	SM	0,387	197	27,2	1920	1995	500	12
4 x 70	SM	0,268	250	31,2	2688	2935	500	14
4 x 95	SM	0,193	308	35,0	3648	3986	500	14
4 x 120	SM	0,153	359	39,0	4608	4935	500	16
4 x 150	SM	0,124	412	42,9	5760	6050	500	16
4 x 185	SM	0,099	475	47,5	7104	7568	500	18
4 x 240	SM	0,075	564	52,6	9216	9475	500	20
3 x 50/35	SM/SM	0,387/0,524	209	26,6	1776	1990	500	12
3 x 70/35	SM/SM	0,268/0,524	269	30,1	2352	2760	500	14
3 x 95/50	SM/SM	0,193/0,387	328	33,9	3216	3670	500	14
3 x 120/70	SM/SM	0,153/0,268	382	37,1	4128	4595	500	16
3 x 150/70	SM/SM	0,124/0,268	441	41,5	4992	5505	500	16
3 x 185/95	SM/SM	0,099/0,193	506	45,6	6240	6880	500	18
3 x 240/120	SM/SM	0,075/0,153	599	49,2	8064	8760	500	20

N2XH

Halogen-free flame cables for power supply 0,6/1 kV / signal cables



Construction

1. **Conductor:** Cu – class 1
2. **Insulation:** Cross-linked PE, XLPE, type 2XI1
3. **Core:** HFFR halogen-free polymer compound
4. **Jacket:** HFFR polymer compound type HM4

Type	Standard
N2XH	HD 604 S1 P5-G

Specification

Norminal voltage	0,6/1 kV
Test voltage	4000 V
Minimum temperature during installation	-5 °C
Operating temperature	-30 °C – +90 °C
Maximum operating temperature	+90 °C
Short circuit temperature	+250 °C/5s
Color of insulation	HD 308. S2
Flame-retardant test	EN 50265-2-1 IEC 60332-1
Minimum bending radius	12 x Ø cable
Coat colour	Black

Application

Type N2XH building wire can be installed under or over concrete, in wet or dry locations, cable channels, open air, but it is not intended for direct burial or under the water. It is recommended for public buildings (hotels, hospitals, department stores, subways, theatres, cinemas etc.), and in all other public buildings where good flame properties in case of fire are required to prevent developing poisonous gases and corrosive HCL gases.

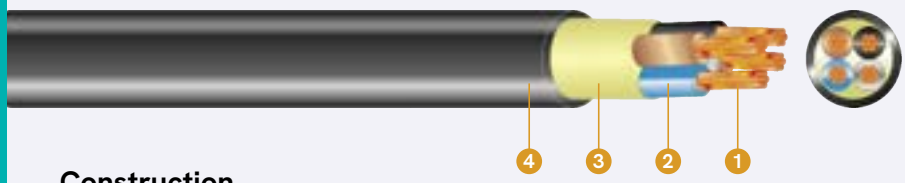
Technical data

No. of conductors and cross sectional area	Conductor shape	Maximal resistance at 20 °C	Current carrying capacities in air	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		**Ω/km**	**A**	**mm**	**kg/km**	**kg/km**	**m**	**No**
7 x 1,5	RE	12,1	14	11,9	101	236	1000	10
7 x 2,5	RE	7,41	20	13,1	168	320	1000	10
7 x 4,0	RE	4,61	28	14,7	269	438	1000	12
10 x 1,5	RE	12,1	10	14,6	144	340	1000	12
10 x 2,5	RE	7,41	14	16,2	240	460	1000	12
10 x 4,0	RE	4,61	18	18,4	384	650	1000	14
12 x 1,5	RE	12,1	12	15,2	173	380	1000	12
12 x 2,5	RE	7,41	17	16,6	288	505	1000	12

No. of conductors and cross sectional area	Conductor shape	Maximal resistance at 20 °C	Current carrying capacities in air	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	mm	kg/km	kg/km	m	No
12 x 4,0	RE	4,61	17,5	18,9	460	746	1000	14
14 x 1,5	RE	12,1	9,5	15,8	202	420	1000	12
14 x 2,5	RE	7,41	13	17,8	336	586	1000	12
14 x 4,0	RE	4,61	17	19,8	538	830	1000	14
16 x 1,5	RE	12,1	9	16,7	230	468	1000	12
16 x 2,5	RE	7,41	13	18,6	384	666	1000	14
19 x 1,5	RE	12,1	11	17,8	274	546	1000	12
19 x 2,5	RE	7,41	16	19,6	456	756	1000	14
21 x 1,5	RE	12,1	8	18,4	302	612	1000	14
21 x 2,5	RE	7,41	10,5	20,5	504	910	1000	14

EYY

Power cables 0,6/1 kV



Construction

1. **Conductor:** Cu - class 1 and 2
2. **Insulation:** PVC
3. **Core:** EPDM
4. **Jacket:** PVC

Type	Standard
EYY	HD 603 S1.Part 3A (DIN VDE 0276 Teil 603)
PP 00	JUS N.C5.220
PVC/PVC	IEC 60502
PVC/PVC	BS 6346

Specification

Norminal voltage	0,6/1 kV
Test voltage	4000 V
Minimum temperature during installation	-5 °C
Operating temperature	-30 °C - +70 °C
Maximum operating temperature	+70 °C
Short circuit temperature	+160 °C/5s
Color of insulation	HD 308. S2
Flame-retardant test	EN 50265-2-1 IEC 60332-1
Minimum bending radius	12 x Ø cable
Coat colour	Black

Application

A power cable suitable for laying in air, soil, water, concrete, in enclosed locations, cable ducts, power plants, industrial applications, city power grids - where mechanical damages are not expected, and cables are not exposed to excessive pulling forces.

Technical data

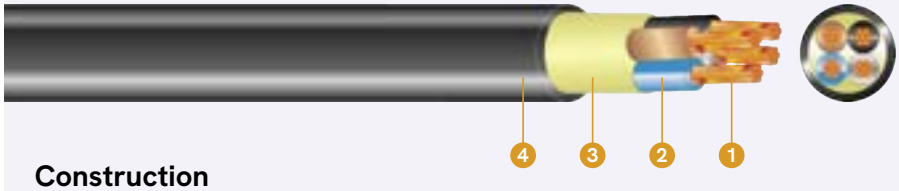
No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
1 x 1,5	RE	12,1	27	41	6,4	14	48	1000	6
1 x 2,5	RE	7,41	35	55	6,8	24	60	1000	6
1 x 4	RE	4,41	47	71	7,5	38	85	1000	7
1 x 6	RE	3,08	59	90	8,0	58	111	1000	7
1 x 10	RM	1,83	64	83	9,3	96	164	1000	7
1 x 16	RM	1,15	84	107	10,3	154	228	1000	8
1 x 25	RM	0,727	114	138	12,1	240	336	1000	9
1 x 35	RM	0,524	139	164	13,2	336	445	1000	10

No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
1 x 50	RM	0,387	169	195	15,0	480	598	1000	10
1 x 70	RM	0,268	213	238	16,8	672	796	1000	12
1 x 95	RM	0,193	264	286	19,1	912	1076	1000	12
1 x 120	RM	0,153	307	325	20,7	1152	1300	1000	14
1 x 150	RM	0,124	352	365	22,6	1440	1596	1000	14
1 x 185	RM	0,0991	406	413	25,3	1776	1990	1000	14
1 x 240	RM	0,0754	483	479	28,3	2304	2630	1000	16
1 x 300	RM	0,0601	557	541	31,2	2880	3240	500	14
1 x 400	RM	0,0470	646	614	34,3	3840	4130	500	18
1 x 500	RM	0,0366	747	693	38,0	4800	5080	500	20
1 x 630	RM	0,0283	1187	1468	41,8	6050	6320	500	22
2 x 1,5	RE	12,1	21	30	11,4	29	184	1000	8
2 x 2,5	RE	7,41	28	39	12,2	48	218	1000	9
2 x 4	RE	4,61	37	50	13,7	77	300	1000	9
2 x 6	RE	3,08	47	62	14,7	115	348	1000	10
2 x 10	RE	1,83	64	83	16,3	192	476	1000	10
2 x 10	RM	1,83	64	83	17,4	192	543	1000	12
2 x 16	RM	1,15	89	116	19,5	307	726	1000	12
2 x 25	RM	0,727	118	150	22,9	480	1004	1000	14
2 x 35	RM	0,524	149	183	25,6	672	1260	1000	14
3 x 1,5	RE	12,1	19	27	11,8	43	201	1000	9
3 x 2,5	RE	7,41	25	36	12,7	72	243	1000	9
3 x 4	RE	4,61	34	47	14,4	115	342	1000	10
3 x 6	RE	3,08	43	59	15,5	173	425	1000	10
3 x 10	RE	1,83	59	79	17,2	288	594	1000	11
3 x 10	RM	1,83	59	79	18,3	288	624	1000	12
3 x 16	RM	1,15	84	107	20,6	461	835	1000	12
3 x 25	RM	0,727	105	132	24,7	720	1180	500	12
3 x 35	RM	0,524	129	159	27,1	1008	1460	500	12
3 x 16/10	RM/RM	1,15/1,83	79	102	20,9	556	704	1000	12
3 x 25/10	RM/RM	0,727/1,83	100	128	25,1	816	1005	500	12
3 x 25/16	RM/RM	0,727/1,15	100	128	25,1	873	1045	500	12
3 x 35/16	RM/RM	0,524/1,15	122	155	27,8	1161	1306	500	12
3 x 35/25	RM/RM	0,524/0,727	122	155	27,8	1248	1426	500	13
3 x 50/25	SM/RM	0,387/0,727	157	188	29,6	1680	1926	500	12
3 x 70/35	SM/RM	0,268/0,524	199	232	33,2	2352	2540	500	14
3 x 70/50	SM/RM	0,268/0,387	199	232	33,2	2496	2760	500	14
3 x 95/50	SM/RM	0,193/0,387	246	280	38,3	3216	3453	500	15
3 x 120/70	SM/RM	0,153/0,268	285	318	41,5	4128	4490	500	15
3 x 150/70	SM/RM	0,124/0,268	326	359	45,8	4992	5380	500	16
3 x 185/95	SM/RM	0,0991/0,193	374	406	50,5	6240	6970	500	18
3 x 240/120	SM/RM	0,0754/0,153	445	473	55,7	8064	8890	500	20
3 x 50/35	SM/SM	0,387/0,524	180	210	29,4	1776	2000	500	12
3 x 70/35	SM/SM	0,268/0,524	188	225	32,9	2352	2520	500	13
3 x 95/50	SM/SM	0,193/0,387	232	271	37,2	3216	3540	500	14
3 x 120/70	SM/SM	0,153/0,268	269	309	39,8	4128	4480	500	15
3 x 150/70	SM/SM	0,124/0,268	308	348	44,2	4992	5260	500	15
3 x 185/95	SM/SM	0,099/0193	354	394	49,8	6240	6870	500	18

No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
3 x 240/120	SM/SM	0,0754/0,153	419	458	55,1	8064	8879	500	20
4 x 1,5	RE	12,1	19	27	12,6	58	204	1000	10
4 x 2,5	RE	7,41	25	36	13,5	96	274	1000	10
4 x 4,0	RE	4,61	34	47	15,4	154	378	1000	11
4 x 6,0	RE	3,08	43	59	16,5	230	482	1000	11
4 x 10	RE	1,83	59	79	18,8	384	689	1000	12
4 x 16	RM	1,15	79	102	21,6	614	986	1000	13
4 x 25	RM	0,727	106	133	27,4	960	1420	500	12
4 x 35	RM	0,524	129	159	30,1	1344	2005	500	14
4 x 35	SM	0,524	129	159	25,4	1344	1653	500	12
4 x 50	SM	0,387	157	188	29,5	1920	2143	500	12
4 x 70	SM	0,268	199	232	32,8	2688	2975	500	14
4 x 95	SM	0,193	246	280	38,2	3648	4065	500	16
4 x 120	SM	0,153	285	318	41,4	4608	5076	500	16
4 x 150	SM	0,124	326	359	46,2	5760	6340	500	16
4 x 185	SM	0,099	374	406	51,0	7104	7980	500	20
4 x 240	SM	0,075	445	473	57,8	9216	10294	500	22
5 x 1,5	RE	12,1	19	27	13,0	72	239	1000	10
5 x 2,5	RE	7,41	25	36	13,9	120	306	1000	10
5 x 4	RE	4,61	34	47	16,2	192	418	500	9
5 x 6	RE	3,08	43	59	17,7	288	564	500	9
5 x 10	RE	1,83	59	79	20,2	480	854	500	10
5 x 10	RM	1,83	59	79	22,2	480	921	500	10
5 x 16	RM	1,15	79	102	25,5	768	1205	500	12
5 x 25	RM	0,727	106	133	30,1	1200	1750	500	14
5 x 35	RM	0,524	129	159	34,4	1680	2482	500	14
5 x 50	RM	0,387	157	188	38,4	2400	3286	500	16
5 x 70	RM	0,268	199	232	43,8	3360	4562	500	16
5 x 95	RM	0,193	246	280	50,3	4650	6243	500	20

EY2Y

Power cables 0,6/1 kV



Construction

1. **Conductor:** Cu - class 1 and 2
2. **Insulation:** PVC
3. **Core:** EPDM
4. **Jacket:** HDPE

Type	Standard
EY2Y	HD 603 S1.Part 3A (DIN VDE 0276 Teil 603)
PP 00	JUS N.C5.220
PVC/PVC	IEC 60502
PVC/PVC	BS 6346

Specification

Norminal voltage	0,6/1 kV
Test voltage	4000 V
Minimum temperature during installation	-5 °C
Operating temperature	-30 °C - +70 °C
Maximum operating temperature	+70 °C
Short circuit temperature	+160 °C/5s
Color of insulation	HD 308. S2
Flame-retardant test	EN 50265-2-1 IEC 60332-1
Minimum bending radius	12 x Ø cable
Coat colour	Black

Application

A power cable suitable for laying in air, soil, water, concrete, in enclosed locations, cable ducts, power plants, industrial applications, city power grids - where mechanical damages are not expected, and cables are not exposed to excessive pulling forces.

Technical data

No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
1 x 1,5	RE	12,1	27	41	6,6	14	44	1000	6
1 x 2,5	RE	7,41	35	55	7,0	24	58	1000	6
1 x 4	RE	4,61	47	71	7,9	38	74	1000	7
1 x 6	RE	3,08	59	90	8,4	58	102	1000	7
1 x 10	RE	1,83	81	124	9,1	96	162	1000	7
1 x 10	RM	1,830	81	124	9,7	96	158	1000	7
1 x 16	RM	1,150	107	160	10,7	154	218	1000	8
1 x 25	RM	0,727	144	250	12,5	240	338	1000	9

No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
1 x 35	RM	0,524	176	296	13,6	336	442	1000	10
1 x 50	RM	0,387	214	365	15,4	480	573	1000	10
1 x 70	RM	0,268	270	438	17,2	672	792	1000	12
1 x 95	RM	0,193	334	501	19,5	912	1023	1000	12
1 x 120	RM	0,153	389	563	21,1	1152	1225	1000	14
1 x 150	RM	0,124	446	639	23,0	1440	1438	1000	14
1 x 185	RM	0,099	516	746	25,7	1776	1967	1000	14
1 x 240	RM	0,075	618	848	28,7	2304	2945	1000	16
1 x 300	RM	0,06	717	975	31,5	2880	3150	500	14
1 x 400	RM	0,047	834	1125	34,5	3840	4035	500	18
1 x 500	RM	0,0366	994	1304	38,2	4800	5006	500	20
1 x 630	RM	0,0283	1180	1468	42,0	6050	6280	500	22
2 x 1,5	RE	12,1	22	34	11,6	29	125	1000	8
2 x 2,5	RE	7,41	30	45	12,4	48	161	1000	9
2 x 4	RE	4,61	40	59	14,1	77	230	1000	9
2 x 6	RE	3,08	51	73	15,1	115	305	1000	10
2 x 10	RE	1,83	63	82	16,7	192	453	1000	11
2 x 10	RM	1,83	63	98	17,8	192	594	1000	12
2 x 16	RM	1,15	85	127	19,9	307	654	1000	12
2 x 25	RM	0,727	112	163	22,3	480	975	1000	14
2 x 35	RM	0,524	148	178	26,0	672	1280	1000	14
3 x 1,5	RE	12,1	19	27	12,0	43	140	1000	9
3 x 2,5	RE	7,41	25	36	12,9	72	186	1000	9
3 x 4	RE	4,61	34	46	14,8	115	256	1000	10
3 x 6	RE	3,08	43	58	15,9	173	354	1000	10
3 x 10	RE	1,83	59	78	17,6	288	520	1000	11
3 x 10	RM	1,83	59	78	18,7	288	568	1000	12
3 x 16	RM	1,15	78	101	21,0	461	768	1000	12
3 x 25	RM	0,727	105	132	25,1	720	1196	500	12
3 x 35	RM	0,524	129	159	27,5	1008	1525	500	12
3 x 16/10	RM/RM	1,15/1,83	77	88	21,3	556	720	1000	12
3 x 25/10	RM/RM	0,727/1,83	98	120	25,5	816	1035	500	12
3 x 25/16	RM/RM	0,727/1,15	105	132	25,5	873	1106	500	12
3 x 35/16	RM/RM	0,524/1,15	129	159	28,3	1161	1385	500	12
3 x 35/25	RM/RM	0,524/0,727	134	162	28,3	1248	1463	500	13
3 x 50/25	SM/RM	0,387/0,727	157	188	30,1	1688	1968	500	12
3 x 70/35	SM/RM	0,268/0,524	199	232	33,6	2352	2563	500	14
3 x 70/50	SM/RM	0,268/0,387	199	242	33,6	2850	2785	500	14
3 x 95/50	SM/RM	0,193/0,387	246	280	38,7	3216	3675	500	15
3 x 120/70	SM/RM	0,153/0,268	285	318	41,9	4128	4592	500	15
3 x 150/70	SM/RM	0,124/0,268	326	359	46,2	4992	5480	500	16
3 x 185/95	SM/RM	0,099/0,193	374	406	50,9	6240	7005	500	18
3 x 240/120	SM/RM	0,0754/0,153	445	473	56,1	8064	9015	500	20
3 x 50/35	SM/SM	0,387/0,524	157	188	29,5	1776	2040	500	12
3 x 70/35	SM/SM	0,268/0,524	199	232	33,3	2352	2630	500	13
3 x 95/50	SM/SM	0,193/0,387	246	280	37,6	3216	3590	500	14
3 x 120/70	SM/SM	0,153/0,268	285	318	40,3	4128	4586	500	15
3 x 150/70	SM/SM	0,124/0,268	326	359	44,7	4992	5430	500	15

No. of conductors and cross sectional area	Conductor shape	Maximal resistance of conductor at 20 °C	Current carrying capacities in air	Current carrying capacities in ground	Overall diameter (approx)	Copper weight	Net weight (approx)	Packing	Drum size
mm²		Ω/km	A	A	mm	kg/km	kg/km	m	No
3 x 185/95	SM/SM	0,099/0,193	374	406	50,2	6240	6920	500	18
3 x 240/120	SM/SM	0,075/0,153	445	473	55,5	8064	8910	500	20
4 x 1,5	RE	12,1	19	27	13,0	58	165	1000	9
4 x 2,5	RE	7,41	25	36	13,9	96	225	1000	10
4 x 4	RE	4,61	34	46	15,8	154	326	1000	10
4 x 6	RE	3,08	43	58	16,9	230	436	1000	12
4 x 10	RE	1,83	59	78	19,1	384	620	1000	12
4 x 10	RM	1,83	59	78	19,5	384	698	1000	12
4 x 16	RM	1,15	78	107	22,0	614	980	500	10
4 x 25	RM	0,727	105	132	27,8	960	1506	500	12
4 x 35	RM	0,524	129	159	30,5	1344	1992	500	14
4 x 35	SM	0,524	129	159	26,4	1344	1600	500	12
4 x 50	SM	0,387	157	188	29,9	1920	2080	500	12
4 x 70	SM	0,268	199	232	33,2	2688	2890	500	14
4 x 95	SM	0,193	246	280	38,6	3648	4210	500	16
4 x 120	SM	0,153	285	318	41,8	4608	5236	500	16
4 x 150	SM	0,124	326	359	46,7	5760	6315	500	16
4 x 185	SM	0,099	374	406	51,3	7104	7836	500	20
4 x 240	SM	0,075	445	473	58,3	9216	10450	500	22
5 x 1,5	RE	12,1	19	27	13,3	72	192	1000	10
5 x 2,5	RE	7,41	25	36	14,3	120	264	1000	10
5 x 4	RE	4,61	34	46	16,7	192	369	500	9
5 x 6	RE	3,08	43	58	18,1	288	518	500	9
5 x 10	RE	1,83	59	78	20,6	480	780	500	10
5 x 10	RM	1,83	59	78	22,4	480	813	500	10
5 x 16	RM	1,15	78	101	25,7	768	1198	500	12
5 x 25	RM	0,727	105	132	30,3	1200	1850	500	14
5 x 35	RM	0,524	129	159	34,0	1680	2430	500	14
5 x 50	RM	0,387	157	188	38,6	2400	3385	500	16
5 x 70	RM	0,268	199	232	44,1	3360	4653	500	16
5 x 95	RM	0,193	246	280	50,6	4560	6312	500	20

X00-A

0,6/1 kV XLPE insulated self supporting aerial cables

Construction

1. **Conductor:** Al phase – conductor
2. **Insulation:** XLPE

Type	Standard
X00-A	JUS N.C5.250
NFA2X	HD 626 S1 P 4F
N1XD4-AR	HD 626 S1 P 4E

Application

These cables are intended for distribution in power grids for industry, towns, and street illumination. They are also connection cables for hanging on electric poles, consoles, walls, on both wooden and steel construction.

Technical data

Conductor construction details

Nominal cross sectional area	Minimum number of strands	Overall conductor diameter (mm)		Length of lay	Maximal resistance of conductor at 20 °C	Insulation thickness	Diameter over insulation (mm)	
mm²	**N°**	**min**	**max**	**mm**	**Ω/km**	**mm**	**min**	**max**
				Phase conductor				
16	7	4,6	5,1	95	1,91	1,2	7,0	7,8
25	7	5,8	6,3	115	1,20	1,4	8,6	9,4
35	7	6,8	7,3	136	0,868	1,6	10,0	10,9
50	12	7,9	8,4	158	0,641	1,6	11,1	12,0
70	12	9,7	10,2	118	0,443	1,8	13,3	14,2
95	19	11	12	258	0,32	1,8	14,6	15,7

Cable construction details

Type	Length of lay	Overall diameter (approx)	Net weight (approx)	Packing	
	mm	**mm**	**kg/km**	**m**	**No**
X00-A 2 x 16	400	15,0	140	1000	9
X00-A 2 x 25	400	18,4	215	1000	13
X00-A 4 x 16	400	18,0	280	1000	11
X00-A 4 x 25	430	22,2	435	1000	13
X00-A 4 x 35	480	25,5	580	1000	14
X00-A 4 x 50	560	28,0	750	500	12
X00-A 4 x 70	640	32,0	1000	500	14
X00-A 4 x 95	720	38,5	1360	500	14

X00/0-A

0,6/1 kV XLPE insulated self supporting aerial cables

Construction

1. **Conductor:** Al phase-conductor
2. **Neutral conductor:** Compacted Aluminum Alloy
   AlMgSi = 54,6 or 70 mm², AlMg1 = 71,5 mm², Al/Fe = 50/8 mm²
3. **Insulation:** XLPE

Type	Standard
X00/0-A	JUS N.C5.250
N1XD9-AR	HD 626 S1 P 6E

Application

These cables are intended for distribution in power grids for industry, towns, and street illumination. They are also connection cables for hanging on electric poles, consoles, walls, on both wooden and steel construction.

Technical data

Conductor construction details

Nominal cross sectional area	Minimum number of strands	Overall conductor diameter (mm)		Length of lay	Maximal resistance of conductor at 20 °C	Insulation thickness	Diameter over insulation (mm)	
mm²	N°	min	max	mm	Ω/km	mm	min	max
				Phase conductor				
35	7	6,8	7,3	136	0,868	1,6	10,0	10,9
50	12	7,9	8,4	158	0,641	1,6	11,1	12,0
70	12	9,7	10,2	118	0,443	1,8	13,3	14,2
				Neutral conductor				
54,6	7	9,2	9,6	144	0,63	1,6	12,3	13,0
50/8	6+1	9,5	9,7	144	0,59	1,6	12,7	12,9
70	7	10	10,2	132	0,50	1,5	12,9	13,6
71,5	7	10,8	11,2	132	0,50	1,6	14,2	14,6

Cable construction details

Type	Length of lay	Overall diameter (approx)	Net weight (approx)	Packing	
	mm	mm	kg/km	m	No
X00/0-A 3 x 35+54,6	850	29,2	691	1000	15
X00/0-A 3 x 35+50/8	850	29,2	691	1000	15
X00/0-A 3 x 35+70	850	29,8	688	1000	15
X00/0-A 3 x 35+71,5	850	29,8	724	1000	15
X00/0-A 3 x 50+54,6	850	32,0	790	1000	15
X00/0-A 3 x 50+50/8	850	32,0	790	1000	15
X00/0-A 3 x 50+70	850	33,2	809	1000	15
X00/0-A 3 x 50+71,5	850	33,2	809	1000	15

Cable construction details

Type	Length of lay	Overall diameter (approx)	Net weight (approx)	Packing	
	mm	mm	kg/km	m	No
X00/0-A 3 x 70+54,6	980	38,6	1019	500	14
X00/0-A 3 x 70+50/8	980	38,6	1019	500	14
X00/0-A 3 x 70+70	1000	38,6	1044	500	14
X00/0-A 3 x 70+71,5	1000	38,6	1074	500	14
X00/0-A 3 x 35+54,6+2 x 16	850	29,8	780	1000	15
X00/0-A 3 x 35+50/8+2 x 16	850	29,8	815	1000	15
X00/0-A 3 x 35+70+2 x 16	850	29,8	825	1000	15
X00/0-A 3 x 35+71,5+2 x 16	850	29,8	855	1000	15
X00/0-A 3 x 50+54,6+2 x 16	850	33,2	919	1000	15
X00/0-A 3 x 50+50/8+2 x 16	850	32,0	919	1000	15
X00/0-A 3 x 50+70+2 x 16	850	33,2	945	1000	15
X00/0-A 3 x 50+71,5+2 x 16	850	33,2	975	1000	15
X00/0-A 3 x 70+54,6+2 x 16	1000	37,5	1140	500	14
X00/0-A 3 x 70+50/8+2 x 16	1000	38,6	1150	500	14
X00/0-A 3 x 70+70+2 x 16	1000	41,0	1170	500	14
X00/0-A 3 x 70+71,5+2 x 16	1000	41,0	1208	500	14

bare
wires & ropes

Prevent Cables manufactures bare cables and ropes ideal for various industrial applications, including construction and telecommunications. Our aluminum-steel ropes offer high strength and lightweight properties, making them an excellent solution for demanding projects that require durability and reliability. Designed for both overhead installations and high-load applications, these products deliver superior performance and value.

prevent.

ACSR- ROPES

Aluminium wire steel reinforced (ACSR conductor)

Construction

The steel reinforced aluminium conductor consists of seven or more aluminium wires applied in concentric layers over a steel core made of one or more steel wires applied in concentric layers twisted together.

Construction details

Cross-sectional area					Construction		
Nominal		Calculated					
Al/Fe mm²	Cross-sectional ratio	Al mm²	Fe mm²	Total mm²	No x diameter Al	No. of layers	No x diameter Fe
16/2,5	6	15,3	2,5	17,8	6 x 1,80	1	1 x 1,80
25/4	6	23,8	4,0	27,8	6 x 2,25	1	1 x 2,25
35/6	6	34,3	5,7	40,0	6 x 2,70	1	1 x 2,70
44/32	1,4	44,0	31,7	75,7	14 x 2,00	1	7 x 2,40
50/8	6	48,3	8,0	56,3	6 x 3,20	1	1 x 3,20
50/30	1,7	51,2	29,8	81,0	12 x 2,33	1	7 x 2,33
70/12	6	69,9	11,4	81,3	26 x 1,85	2	7 x 1,44
95/15	6	94,4	15,3	109,7	26 x 2,15	2	7 x 1,67
95/55	1,7	96,5	56,3	152,8	12 x 3,20	1	7 x 3,20
120/20	6	121,6	19,8	141,4	26 x 2,44	2	7 x 1,90
120/70	1,7	122,0	71,3	193,3	12 x 3,60	1	7 x 3,60
125/30	4,3	127,9	29,8	157,7	30 x 2,33	2	7 x 2,33
150/25	6	148,9	24,2	173,1	26 x 2,70	2	7 x 2,10
170/40	4,3	171,8	40,1	211,9	30 x 2,70	2	7 x 2,70
185/30	6	183,8	29,8	213,6	26 x 3,0	2	7 x 2,33
210/35	6	209,1	34,1	243,2	26 x 3,20	2	7 x 2,49
210/50	4,3	212,1	49,5	261,6	30 x 3,00	2	7 x 3,00
230/30	7,7	230,9	29,8	260,7	24 x 3,50	2	7 x 2,33
240/40	6	243,0	39,5	282,5	26 x 3,45	2	7 x 2,68
265/35	7,7	263,7	34,1	297,8	24 x 3,74	2	7 x 2,49
300/50	6	304,3	49,5	353,7	26 x 3,86	2	7 x 3,00
305/40	7,7	304,6	39,5	344,1	54 x 2,68	3	7 x 2,68
340/30	11,3	339,3	29,8	369,1	48 x 3,00	3	7 x 2,33
360/57	6	360,2	56,3	416,5	26 x 4,20	2	7 x 3,20
380/50	7,7	382,0	49,5	431,5	54 x 3,00	3	7 x 3,00
385/35	11,3	386,0	34,1	420,1	48 x 3,20	3	7 x 2,49
435/55	7,7	434,3	56,3	490,6	54 x 3,20	3	7 x 3,20
450/40	11,3	448,7	39,5	488,2	48 x 3,45	3	7 x 2,68
490/65	7,7	490,3	63,6	553,9	54 x 3,40	3	7 x 3,40
495/35	15,3	494,1	34,1	528,2	45 x 3,74	3	7 x 2,49
510/45	11,3	510,2	45,3	555,5	48 x 3,68	3	7 x 2,87
550/70	7,7	550,0	71,3	621,3	54 x 3,60	3	7 x 3,60
560/50	11,3	561,7	49,5	611,2	48 x 3,86	3	7 x 3,00
570/40	14,5	565,5	39,5	610,3	45 x 4,02	3	7 x 2,68
650/45	14,5	653,2	45,26	698,5	45 x 4,30	3	7 x 2,87

Specification

Type	Standard
Aluminium Conductors Steel reinforced (ACSR Conductor)	DIN 48204
	EN 50182
	JUS N.C1.351

Physical and mechanical characteristics

Cross sectional ratio	Number of wires	Density		Coef. of linear expansion	Elasticity module
Al/Fe	Al	Fe	103 kg/m³	10-6 x 1/°C	Mpa
1,4	14	7/19	4,91	15,0	110000
1,7	12	7	4,66	15,3	107000
4,3	30	7	3,57	17,8	82000
6	6	1		19,2	81000
6	26	7	3,5	18,9	77000
6	24	7		19,6	74000
7,7	54	7	3,36	19,3	70000
7,7	54	19	3,36	19,4	68000
11,3	48	7	3,2	20,5	62000
14,5	45	7	3,09	20,9	61000

Overall diameter	Weight			Tensile strength	Max. resistance 20 °C
mm	Weight Al kg/km	Weight Fe kg/km	Net kg/km	N	Ohm/km
5,4	41,8	19,9	62	5825	18,780
6,8	65,4	31,0	97	9400	12,002
8,1	94,2	44,7	140	12900	0,8352
11,2	121,5	248,3	378	45500	0,6573
96,0	132,2	62,7	196	17400	0,5946
11,7	141,2	234,0	383	44225	0,5643
11,7	192,7	89,4	285	26315	0,4130
13,6	260,3	120,2	384	35750	0,3058
16,0	266,3	441,4	722	80200	0,2992
15,5	335,3	155,6	496	45460	0,2374
18,0	337,1	558,6	913	98195	0,2364
16,3	353,2	234,0	595	57800	0,2259
17,1	410,5	190,1	607	55200	0,1939
18,9	474,3	314,2	798	77040	0,1682
19,0	506,8	234,0	748	66225	0,1571
20,3	576,6	267,2	852	74950	0,1380
21,0	585,5	387,9	986	92275	0,1362
21,0	636,5	234,0	878	73030	0,1249
21,8	670,2	309,6	990	86460	0,1188
22,4	726,8	267,2	1003	82955	0,1094
24,4	839,0	387,9	1239	105120	0,9487
24,1	841,0	309,6	1160	99305	0,9490
25,0	936,0	234,0	1177	92505	0,0851
26,4	993,3	441,4	1449	125245	0,0801
27,0	1053,9	387,9	1454	120990	0,0757
26,7	1064,9	267,2	1341	104315	0,0748
28,8	1199,0	441,4	1654	136275	0,0590
28,7	1237,8	309,6	1557	120195	0,0643
30,6	1353,6	498,3	1868	152915	0,0590
29,9	1363,6	267,2	1639	120280	0,0585
30,7	1408,4	355,0	1775	134295	0,0566
32,4	1517,5	558,6	2094	167530	0,0511
32,2	1549,5	387,9	1950	146300	0,0514
32,2	1575,4	309,6	1895	138000	0,0510
34,4	1802,5	355,0	2169	155550	0,0443

Cu- ROPES

Cu – conductors

Construction

The Cu-conductor is made out of seven or more copper strands (hard or soft drawn), stranded in concentric layers.

Specification

Type	Standard
Cu - conductors	DIN 48 201 Teil 1

Technical data

Nominal cross sectional area	Calculated cross-sectional area	Design of Cu-ropes	Overall diameter	Net weight (approx)	Tensile strength	Packing
mm²	**mm²**	**n x d**	**mm**	**kg/km**	**kN**	**No/m**
10	10,02	7 x 1,35	4,1	91	4,02	8/4500
16	15,89	7 x 1,70	5,1	145	6,37	8/4500
25	24,25	7 x 2,10	6,3	221	9,72	8/2900
35	34,36	7 x 2,50	7,5	313	13,77	8/2000
50	49,48	7 x 3,00	9,0	450	19,84	8/2200
50	48,35	19 x 1,80	9,0	440	19,38	10/2200
70	65,81	19 x 2,10	10,5	599	26,38	8/1000
95	93,27	19 x 2,50	12,5	849	37,39	10/1500
120	116,99	19 x 2,80	14,0	1065	46,90	10/1250
150	147,11	37 x 2,25	15,8	1339	58,98	12/1750
185	181,52	37 x 2,50	17,5	1653	72,81	12/1300
240	242,54	61 x 2,25	20,3	2207	97,23	14/1600
300	299,43	61 x 2,50	22,5	2725	120,04	18/2300
400	400,14	61 x 2,89	26,0	3640	160,42	20/2300
500	499,83	61 x 3,23	29,1	4545	200,38	20/1800

Al- ROPES

Al – conductors for overhead lines

Construction

The Al-conductor is made out of seven or more individual strands twisted in concentric layers. All strands in the conductor are of the same diameter. One to four layers of strand are applied around the centre strand, each layer having opposite lay direction and the outer layer always having a right hand lay.
Conductors are made out of hard drawn Al wires in accordance with HRN N.C1. 301 specification.

Specification

Type	Standard
Al – conductors for overhead lines	DIN EN 50182
	JUS N.C1. 302/301

Technical data

Electrical and physical characteristics

Characteristics	Unit	Value
Specific electrical resistance at 20 °C	Wm x 10^{-6}	0.02801
Coefficient of linear elongation	m/m °C	2.3 x 10^{-5}
Coefficient of thermal resistance	W/W x °C	0.00403
Tensile strength	N/mm^2	105-120
Density at 20 °C	kg/m^3	2703

Electrical and physical characteristics

Construction	Elasticity module	Coefficient of linear elongation
No. of wires	**N/mm^2**	**1/ °C**
7	60000	23 x 10^{-6}
19	57000	23 x 10^{-6}
37	57000	23 x 10^{-6}
61	55000	23 x 10^{-6}

Lay factor

No. of wires in the conductor	Factor step nesting			
	6. wire layer	**12. wire layer**	**18. wire layer**	**24. wire layer**
7	10 – 14			
19	10 – 16	10 – 14		
37	10 – 17	10 – 16	10 – 14	
61	10 – 17	10 – 16	10 – 15	10 – 14

Construction details

Nominal cross sectional area	Calculated cross-sectional area	Design of Al-ropes	Overall diameter	Net weight (approx)	Electrical resistance	Tensile strength	Packing
mm²	mm²	n x d	mm	kg/km	Ω/km	kN	No/m
16	15,89	7 x 1,70	5,1	44	1,80	2,90	8/4400
25	24,25	7 x 2,10	6,3	67	1,18	4,25	9/4000
35	34,36	7 x 2,50	7,5	94	0,84	5,85	9/3000
50	49,48	7 x 3,00	9,0	135	0,58	8,10	10/2800
50	48,35	19 x 1,80	9,0	133	0,59	8,60	10/2800
70	65,81	19 x 2,10	10,5	181	0,44	11,5	10/2100
95	93,27	19 x 2,50	12,5	256	0,31	15,95	12/2600
120	116,99	19 x 2,80	14,0	322	0,25	19,10	12/2000
150	147,11	37 x 2,25	15,8	406	0,20	25,70	12/2600
185	181,52	37 x 2,50	17,5	501	0,16	31,05	14/2000
240	242,54	61 x 2,25	20,3	670	0,12	40,15	16/2500
300	299,43	61 x 2,50	22,5	827	0,09	48,50	18/2300
400	400,14	61 x 2,89	26,0	1105	0,07	61,90	20/2400
500	499,83	61 x 3,23	29,1	1381	0,05	76,00	22/2300

Fe- ROPES

Steel ropes for overhead lines

Construction

These steel ropes are used as lightning protection for overhead lines. They are made in accordance with HRN N.C1. 702 (JUS N.C1.702). The layers are twisted in concentric manner and in opposite direction from each other with the outside layer in right hand direction.

Specification

Type	Standard
Galvanised steel ropes	HRN N.C1. 702 (JUS N.C1.702)
	JUS N.C1. 302/301

Technical data

Hard drawn galvanised steel wires - characteristics

Diameter	Tolerance	Stress at 1% elongation re 1.0	Tensile strength		Min. weight of zinc	Min. number of dipping for 60 sec.
mm	**mm**	**Mpa**	**Mpa**	**Mpa**	**g/cm²**	
1,6 - 1,75	+/- 0,035	1180	1310-1520	1250	200	2
1,76 - 2,24	+/- 0,040	1180	1310-1520	1250	210	2,5
2,25 - 2,74	+/- 0,040	1180	1310-1520	1250	230	3
2,75 - 3,05	+/- 0,050	1140	1310-1520	1250	240	3

Construction details

Nominal cross sectional area	Calculated cross sectional area	Design of Fe-ropes	Overall diameter (approx)	Net weight (approx)	Tensile strength	Packing
mm²	**mm²**	**n x d**	**mm**	**kg/km**	**kN**	**No/m**
16	15,89	7 x 1,70	5,1	126	18,75	8/4400
25	24,25	7 x 2,10	6,3	192	30,80	9/4000
35	34,36	7 x 2,50	7,5	272	43,75	9/3000
50	49,48	7 x 3,00	9,0	391	63,00	10/2800
58	58,10	7 x 3,25	9,8	460	66,80	12/3500

Designation codes for harmonised cables

Harmonised cables and wires according to VDE 0281/0282

H	03	V	V	-	C4	R	4	G	16
1	2	3	4		5	6	7	8	9

1. Identification of designation

- **H** harmonised standards
- **A** authorised national standards

2. Nominal voltage

- **01** 100 V
- **02** 300/300 V
- **03** 300/500 V
- **04** 450/750 V

3. Insulating materials

- **V** PVC
- **V2** PVC (90 °c)
- **V3** PVC – low-temperature
- **B** EPR
- **E** PE – Polyethylene
- **R** natural or synthetic rubber
- **S** silicone rubber
- **X** XLPE – cross-linked polyethylene

4. Sheath material

- **V** PVC
- **V2** PVC (90 °c)
- **V3** PVC – low-temperature
- **V5** PVC – oil-resistant
- **R** natural or synthetic rubber
- **N** chloroprene-rubber
- **J** braiding of glass fibre
- **T** textile braiding over twisted cores
- **Q** polyurethane

5. Special structural features

- **C4** copper concentric screen
- **H** flat separable cable (twin cable)
- **H2** flat non-separable cable
- **H8** spiral cables

6. Conductor type

- **U** single-wire, round
- **R** multiple-wire, round
- **K** finely stranded for flexible installations
- **F** finely stranded for flexible cords
- **H** very finely stranded, for flexible cables
- **Y** tinsel wire, din 47104
- **D** finely stranded, for welding cables
- **E** very finely stranded, for welding cables

7. Number of cores

8. Earth core

- **X** without earth core
- **G** with earth core

9. Conductor nominal cross section in mm^2

Power cables according to VDE 0271/0272/0273/0276

N	A	Y	C	S	K	2Y	B	2X	-J	6	RE
1	2	3	4	5	6	7	8	9	10	11	12

1. Identification of designation

- **N** DIN VDE standard
- **(N)** similar to DIN VDE standard

2. Conductor material

- **–** copper conductor
- **A** aluminium conductor

3. Insulating materials

- **Y** PVC
- **2Y** PE – Polyethylene
- **2Y** cross linked PE (XLPE)
- **–** impregnated paper

4. Concentric conductor (screen)

- **C** concentric conductor of copper
- **CW** concentric conductor of copper in waveconal formation
- **CE** concentric conductor of copper over each individual core
- **H** conductive layers
- **(F)** longitudinaly water-proof screen
- **(FL)** longitudinaly and horizontal water-proof screen

5. Concentric conductor (screen)

- **S** screen of copper wires
- **SE** screen of copper wires over each individual core

6. Sheath material

- **K** lead sheath

7. Internal protection, internal sheath

See point **3.** – Insulating materials

8. Armouring

- **B** steel tape armouring
- **F** armouring of galvanised flat steel wires
- **R** armouring of galvanised round steel wires
- **G** counter helix of galvanised steel tape

9. Sheath material

See point **3.** – Insulating materials

10. Protective conductor

- **-J** with protective conductor
- **-O** without protective conductor

11. Number of cores

12. Conductor type

- **RE** round, solid conductor
- **RM** round, stranded conductor
- **SE** sector, solid conductor
- **SM** sector, standard conductor

Review of cable marks (VDE – JUS)

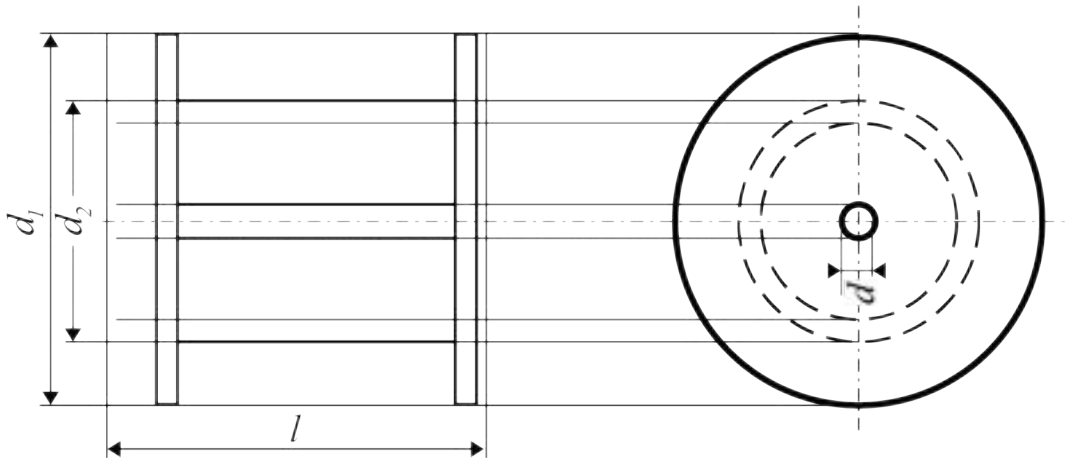
VDE	JUS	Description	Conductor	Insulating materials/ Sheathing
H07V-U	P	Type H07V-U is intended for use in dry locations where flexibility is required, e.g. installation in toolrooms, buildings, walls or conduits.	Cu	PVC
H07V-R	P P/M	Type H07V-R is intended for use in dry locations where flexibility is required, e.g. installation in toolrooms, buildings, walls or conduits.	Cu	PVC
NYM	PP PGP	Type NYM cable is intended for permanent installation, both industrial and house installation, in dry and wet conditions, for laying over or under concrete without special mechanical protection.	Cu	PVC/PVC
NAYY	PP00-A	A power cable suitable for laying in air, soil, water, concrete, in enclosed locations, cable ducts, power plants, industrial applications, city power grids - where mechanical damages are not expected, and cables are not exposed to excessive pulling forces.	Al + (Cu)	PVC/PVC
NA2XY	XP00-A	A power cable suitable for laying in air, soil, water, concrete, in enclosed locations, cable ducts, power plants, industrial applications, city power grids - where mechanical damages are not expected, and cables are not exposed to excessive pulling forces.	Al + (Cu)	XLPE/PVC
NAY2Y	PP00-AY	A power cable suitable for laying in air, soil, water, concrete, in enclosed locations, cable ducts, power plants, industrial applications, city power grids - where mechanical damages are not expected, and cables are not exposed to excessive pulling forces.	Al	PVC/HDPE
N2XY	XP00	A power cable suitable for laying in air, soil, water, concrete, in enclosed locations, cable ducts, power plants, industrial applications, city power grids - where mechanical damages are not expected, and cables are not exposed to excessive pulling forces.	Cu	XLPE/PVC
NYY	PP00	A power cable suitable for laying in air, soil, water, concrete, in enclosed locations, cable ducts, power plants, industrial applications, city power grids - where mechanical damages are not expected, and cables are not exposed to excessive pulling forces.	Cu	PVC/PVC

Drums

When the cables are delivered on drums, they meet the characteristics in the chart below. The maximum cable length in meters, wound around a drum, is calculated according to the following formula:

$$L = \frac{1000 \times V}{d^2}$$

L - lenght
V – applied volume of drum (dm^3)
d – cable section (mm)



Length of cable on the drum depending on cable diameter

Kabel Ø	N 06	N 07	N 08	N 09	N 10	N 11	N 12	N 13	N 14	N 15	N 16	N 18	N 20	N 22
6	1527	2597	3106											
7	1116	1902	2277											
8	850	1452	1738	2574										
9	687	1163	1389	2049										
10	537	922	1105	1640	2442									
11	440	759	910	1352	2015									
12	367	634	762	1133	1690									
13	299	527	636	952	1427	1921	2329							
14	254	451	544	817	1226	1652	2002							
15		389	470	708	1064	1435	1737	2508						
16		338	410	618	932	1258	1521	2198	2559					
17		296	359	544	822	1111	1341	1942	2261					
18		261	317	482	730	988	1191	1726	2011					
19			282	430	652	883	1064	1544	1800	2710				
20				385	585	794	955	1389	1620	2443	2688			
21				346	558	748	862	1255	1464	2243	2434			
22				313	509	681	801	1139	1330	2044	2213	2514		
23				284	465	623	730	1038	1212	1870	2021	2300		
24				258	427	572	668	949	1109	1718	1852	2113		
25					394	528	613	871	1019	1583	1703	1947	2566	
26					364	488	565	801	938	1463	1570	1800	2369	
27					338	452	522	740	866	1357	1453	1669	2193	
28					314	421	483	684	802	1262	1347	1552	2036	2419
29					293	392	448	634	744	1176	1252	1447	1894	2252
30					274	366	417	590	692	1099	1167	1352	1767	2101
31					256	343	388	549	645	1029	1090	1266	1652	1964
32						322	363	512	602	966	1020	1188	1547	1840
33						303	339	479	563	908	956	1117	1452	1727
34						285	318	448	528	856	898	1053	1365	1624
35						269	298	420	495	808	844	993	1285	1530
36						254	280	394	465	763	795	939	1212	1444
37							264	370	438	723	750	889	1145	1364
38							248	349	412	685	709	843	1082	1290
39								328	389	650	670	800	1025	1223
40								310	367	618	635	761	972	1160
41								292	347	559	602	724	923	1101
42								276	329	531	571	690	877	1047
43								261	311	505	542	658	834	997
44								247	295	481	516	629	795	950
45								234	280	459	491	601	758	906
46									266	438	468	575	723	865
47									252	418	446	551	690	826
48									240	399	425	528	660	790
49										382	406	507	631	756
50										366	388	487	604	724
51										350	371	468	579	694
52										336	355	450	555	666
53										322	340	433	532	639
54										309	326	417	511	614
55										297	312	402	491	590
56										285	299	388	471	567
57										274	287	375	453	546
58										264	276	362	436	525
59										254	265	350	420	506
60										245	254	338	404	488
61												327	389	470
62												317	375	454

Core identification in multi-core cables HD 308 S2.

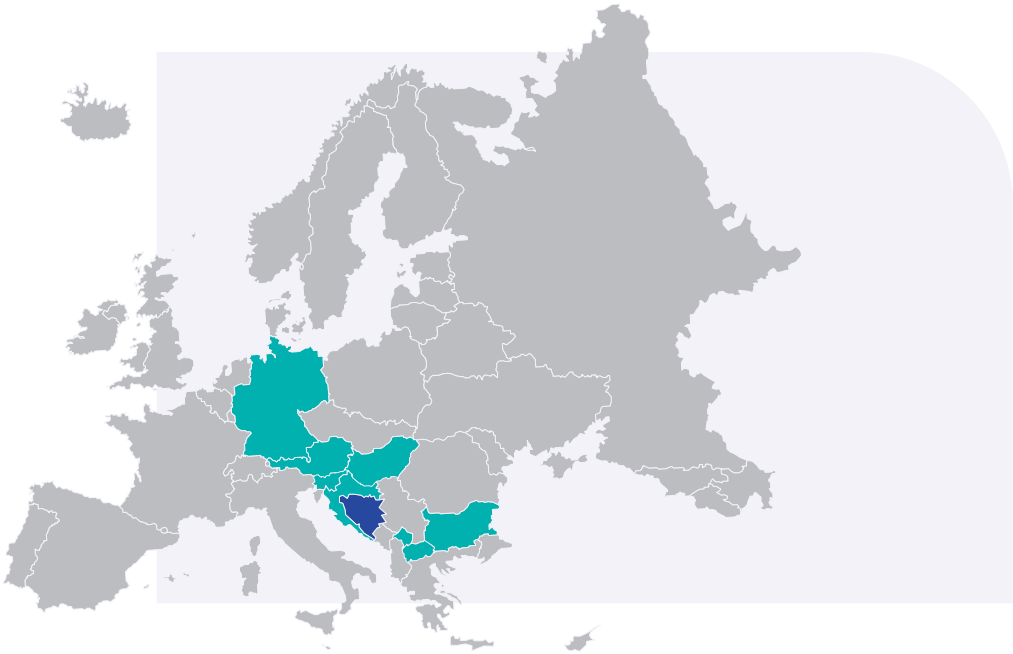
Number of cores	Cables with protective conductor (J)	Cables without Protective Conductor (0)
1	green/yellow	black
2	-	blue, brown
3	green/yellow, blue, brown	brown, black, grey
4	green/yellow, brown, black, grey	blue, brown, black, grey
5	green/yellow, blue, brown, black, grey	blue, brown, black, grey, black
For control cables with 6 and more cores	In the outer layer: green/yellow, the rest black, marked with numbers beginning with 1 in the centre	Black, marked with numbers beginning with 1 in the centre
For control cables with 6 and more cores (JUS-u)	In the outer layer: green/yellow, white, the rest black; in other layers: white, the rest black	In the outer layer: brown, white, the rest black; in other layers: white, the rest black

The core colours of the self supporting cable bundle are black. The cores of the face conductors are marked with numbers 1, 2 and 3, while the cores for public illumination are marked by identifications R1 and R2. The neutral supporting cores of 71,5 mm^2, 70 mm^2 and 54,6 mm^2, as also the neutral cores of 16 and 25 mm^2, have no numerical identification. Instead they have a triangular bulge along the whole length, and are easily identified, both visually and tangibly.

Quality is the cornerstone of us.

We adhere to ISO 9001, ISO 14001, and ISO 45001 certifications, guiding our manufacturing processes and ensuring excellence in every product we deliver. Our commitment to compliance is underscored by our adherence to additional certifications, such as OVE, VDE, and EZU, which validate our dedication to producing cables that meet the highest standards in safety, performance, and environmental responsibility.

We enjoy a presence in key markets across Europe, including Austria, Slovenia, Germany, and Hungary.



Our proactive approach to monitoring and complying with stringent EU regulations ensures that our offerings are not only competitive but also aligned with evolving customer demands. This adaptability positions us as a reliable partner in the cable industry, capable of meeting the challenges of a dynamic market landscape.

Advanced techology, skilled craftsmanship.

Our production processes embody a seamless integration of advanced technology and skilled craftsmanship. Operating 24/7, we optimize efficiency and minimize waste while adhering to the highest standards of quality. The key stages of production include:

1. **Wire Drawing:** Preparing high-quality wire for subsequent processing.
2. **Wire Stranding:** Creating durable ropes for use in cable production.
3. **Insulation:** Utilizing cutting-edge extrusion lines to apply insulation, ensuring longevity and safety for our cables.
4. **Sheath:** Encasing insulated conductors into robust finished products that can withstand demanding environments.
5. **Quality Testing:** Conducting rigorous tests on final products to guarantee compliance with industry standards, ensuring reliability and customer satisfaction.

We are deeply committed to sustainability and environmental stewardship.

Our state-of-the-art solar power plant, with a capacity of 300 kWh, powers our manufacturing facility, significantly reducing our carbon footprint. We emphasize recycling initiatives that align with global sustainability goals, conserving resources and minimizing waste throughout our production processes.

Moreover, our commitment to corporate social responsibility extends beyond our operations. We actively engage with our local community, supporting initiatives that enhance the quality of life for residents and foster economic growth in the region.

Our workforce is the backbone of our success.

At Prevent Cables, we prioritize the development of our employees through comprehensive mentorship and training programs. This commitment to professional growth fosters a collaborative culture that drives productivity, innovation, and employee satisfaction. We believe that investing in our people translates into superior products and services for our customers.

We proudly support local initiatives.

Prevent Cables is proud to support local initiatives, exemplified by our sponsorship of HNK Tomislav for the 2024/2025 season. This partnership reflects our dedication to promoting sports and community engagement, further reinforcing our commitment to being a responsible corporate citizen.

As a premier player in the cable manufacturing sector, Prevent Cables is poised to deliver high-quality, innovative solutions that empower industries and enhance lives. Our strategic location near the European Union and the port of Split provides us with unparalleled logistical advantages, facilitating swift distribution and seamless collaboration with our European partners. This prime positioning allows us to not only cater to regional demands but also to extend our reach globally, reinforcing our status as a reliable partner in the cable industry. We invite you to partner with us in our journey of excellence, sustainability, and community engagement. For inquiries about our products and services, please contact our sales team or visit our website.

Together, let's shape the future of cable manufacturing.

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