

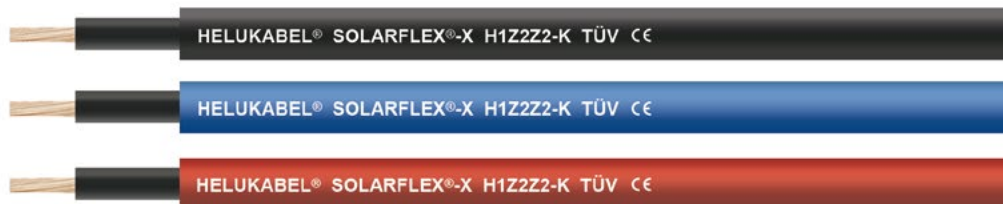
# Технические характеристики

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# SOLARFLEX®-X H1Z2Z2-K

## 1500 V DC, EN 50618



### Technical data

<b>Temperature range</b>	-40°C to +90°C
<b>Max. operating temperature at the conductor</b>	+120°C
<b>Nominal voltage</b>	AC 1,0/1,0 kV / DC 1,5/1,5 kV
<b>AC Test voltage</b>	6,5 kV
<b>Min. bending radius</b>	fixed installation 5x conductor Ø

### Cable structure

- Tinned copper conductor, finely stranded acc. to DIN VDE 0295 cl.5, IEC 60228 cl.5
- Core insulation: special cross-linked compound
- Sheath: special cross-linked compound
- Sheath colour: see table

### Properties

- Complies with protection class II
- UV-resistant
- Ozone-resistant
- Direct burial

### Tests

- Halogen-free acc. to DIN VDE 0285-525-1 / DIN EN 50525.1 Annexe B / DIN EN 60754-1 / IEC 60754-1
- Flame retardant acc. to IEC 60332-1-2
- Smoke density acc. to IEC 61034
- Weathering/UV-resistant acc. to EN 50289-4-17 Annexe A
- Ozone-resistant acc. to EN 50396, Annexe 8.1.3 Method B

Part no.	AD x nominal cross-section mm <sup>2</sup>	Sheath colour	OD Ø approx. mm	Cu no. kg / km	Weight approx. kg / km
713529	1 x 2,5	black	5,0	24,0	41,0
713544	1 x 2,5	blue	5,0	24,0	41,0
713543	1 x 2,5	red	5,0	24,0	41,0
713530	1 x 4	black	5,4	38,4	55,0
713546	1 x 4	blue	5,4	38,4	55,0
713545	1 x 4	red	5,4	38,4	55,0
713531	1 x 6	black	6,2	57,6	82,0
713570	1 x 6	blue	6,2	57,6	82,0
713569	1 x 6	red	6,2	57,6	82,0
713532	1 x 10	black	7,4	96,0	123,0
713572	1 x 10	blue	7,4	96,0	123,0
713571	1 x 10	red	7,4	96,0	123,0

Subject to technical modifications.

### Approvals

- EN 50618  
TÜV

### Application

The SOLARFLEX®-X is used for wiring solar modules. Suitable for direct burial. Recommendation: For laying in pipes.

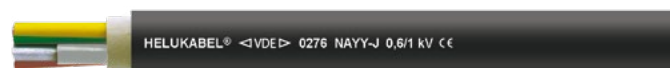
CE= Product complies to the Low-Voltage Directive 2014/95/EU.

## EARTH CABLE - FROM THE INVERTER TO THE FEEDING POINT

HELUKABEL® offers you a wide range of connection cables for cabling from the inverter to the feeding point. Thanks to the wide range of products in stock and the most modern logistics center in the cable industry, direct deliveries to the customer construction site are also possible at short notice and on schedule. Additional connection cables can be found at: [www.helukabel.com/powercables](http://www.helukabel.com/powercables)

### NAYY

**0,6/1kV, Alu, VDE approved**



<b>Core number:</b>	1 to 5
<b>Nominal cross-section:</b>	10 mm <sup>2</sup> to 630 mm <sup>2</sup>
<b>Temperature range:</b>	flexible installation: -5°C to +50°C fixed installation: -40°C to +70°C

### NYY

**0,6/1kV, copper, VDE approved**



<b>Core number:</b>	1 to 61
<b>Nominal cross-section:</b>	1,5 mm <sup>2</sup> to 630 mm <sup>2</sup>
<b>Temperature range:</b>	flexible installation: -5°C to +50°C fixed installation: -40°C to +70°C

## ■ SOLARFLEX®-X H1Z2Z2-K NTS

Version with rodent protection. Protective mesh: stainless steel, V2A 1-way



Especially recommended for PV systems in the agricultural sector.  
Data sheet at:  
[www.helukabel.com/17000101en](http://www.helukabel.com/17000101en)

Part no.	AD x nominal cross-section mm <sup>2</sup>	OD Ø approx. mm	Cu no. kg / km	Weight approx. kg / km
17000101	1 x 4	6,0	38,4	85
17000102	1 x 6	6,8	57,6	112
17000103	1 x 10	8,0	96,0	158

## ■ PV-CABLE COUPLER AND FEMALE CONNECTOR MC4



<b>Protection classification:</b>	IP 67
<b>Protection type:</b>	II
<b>Temperature range:</b>	-40°C to +90°C
<b>Rated voltage:</b>	1000 V (IEC)
<b>Rated current:</b>	22A (2,5 mm <sup>2</sup> ) 30A (4 mm <sup>2</sup> and 6 mm <sup>2</sup> )
<b>Contact resistance:</b>	<0,5 mΩ
<b>Contact system:</b>	MC contact lamination
<b>Contact material:</b>	Cu, tinned, punched

Part no.	MC4 - Description	AD Ø approx. mm	Cond. PU cross-section mm <sup>2</sup>
905206	PV-KST4/2,5I-UR plug	3 - 6	2,5 50
905207	PV-KBT4/2,5I-UR female connector	3 - 6	2,5 50
905210	PV-KST4/6I-UR plug	3 - 6	4 50
905211	PV-KBT4/6I-UR female connector	3 - 6	4 50
904963	PV-KST4/6II-UR plug	5,5 - 9	6 50
904964	PV-KBT4/6II-UR female connector	5,5 - 9	6 50
905863	PV-KST4/10 II plug	5,5 - 9	10 50
905864	PV-KBT 4/10 II female connector	5,5 - 9	10 50
905228	PV-AZB4 female connector BBS	x	2,5 - 10 50
905229	PV-AZS4 plug BBS	x	2,5 - 10 50
905516	Metal insert B female connector	3 - 6	4 - 6 50
906227	Metal insert S plug	3 - 6	4 - 6 50
904972	Key set of 2	x	2,5 - 10 1
904971	Crimping tool + Locator	x	2,5 - 6 1
905866	Crimping tool	x	4 - 10 1

Subject to technical modifications.

## ■ MONITORING THE PHOTOVOLTAIC SYSTEM

HELUKAT® 600 data cables are characterised by large power reserves and outstanding performance. These cables enable problem-free monitoring of the photovoltaic system. With its double PVC sheath, the HELUKAT® 600A series is designed specifically for outdoor installations such as housewalls and routes. The HELUKAT® 600AE series is equipped with a double FRNC / PE sheath and metallic rodent-protection, making it suitable for direct burial.

### HELUKAT® 600A S/FTP PVC/PVC

Outdoor use, Cat. 7e



<b>Cable structure:</b>	S/FTP 4x2xAWG 23/1 PVC/PVC
<b>Inner conductor diameter:</b>	0,58 mm
<b>Conductor material:</b>	bare copper
<b>Outer sheath material:</b>	PVC
<b>Part no.</b>	801147

### HELUKAT® 600AE S/FTP FRNC/PE

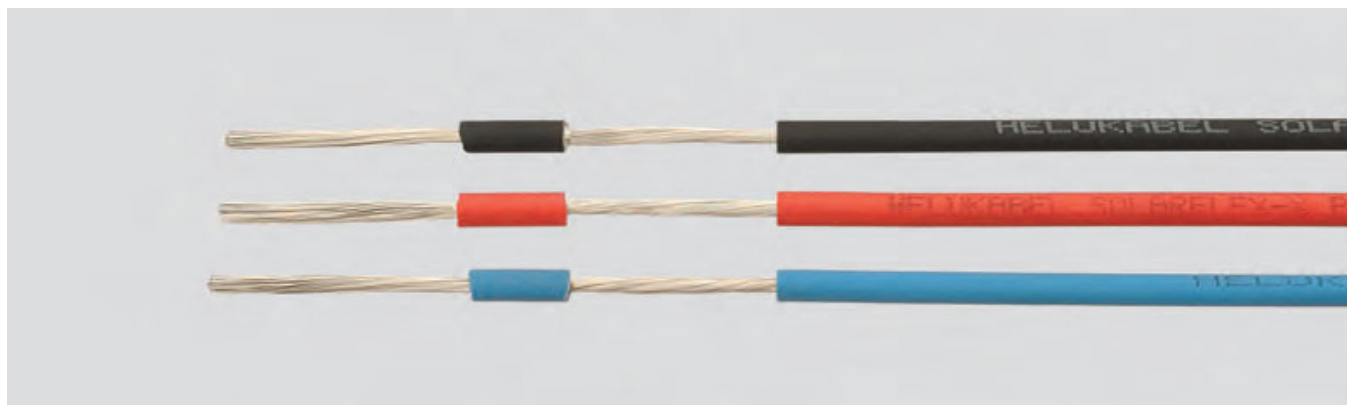
Direct burial, Cat. 7e



<b>Cable structure:</b>	S/FTP 4x2xAWG 23/1 FRNC/PE
<b>Inner conductor diameter:</b>	0,58 mm
<b>Conductor material:</b>	bare copper
<b>Outer sheath material:</b>	PE
<b>Part no.</b>	802168

# SOLARFLEX-X PV1-F

## Кабели для соединения гелиотермических модулей



### Технические характеристики

- Температурный диапазон от  $-40^{\circ}\text{C}$  до  $+90^{\circ}\text{C}$
- макс. рабочая температура на кабеле  $+120^{\circ}\text{C}$
- Номинальное напряжение согласно VDE  $U_0/U$  —
  - 600/1000В переменного тока
  - 1800В постоянного тока кабель/кабель
- Испытательное переменное напряжение 4000 В, 50 Гц
- Минимальный радиус изгиба для фиксированной прокладки около  $4 \times \varnothing$  кабеля

### Структура

- Луженые медные жилы многопроволочные согласно DIN VDE 0295 Класс 5 и IEC 60228 кл. 5,
- с двойной изоляцией
- Изоляция из специального сшитого полимера
- Оболочка из специального сшитого полимера
- Цвет оболочки черный, красный или синий Особенности
- Сертификаты: VDE, TÜV 2Pfg1169/08.2007
- стойкий к влиянию ультрафиолетовых лучей, озону, гидролизу
- очень высокий уровень маслостойкости и устойчивости к химикатам
- не воспламеняется VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1
- очень крепкая и износостойкая оболочка
- эластичный и легко обрабатываемый
- нечувствителен к коротким замыканиям до  $200^{\circ}\text{C}$  за счет двойной изоляции, температура короткого замыкания  $200^{\circ}\text{C}/5$  сек.
- устойчив к аммиаку
- ожидаемый срок эксплуатации - 25 лет
- соответствует RoHS

#### Примечание

Варианты исполнения с оцинкованной стальной оплеткой (защита от грызунов) по запросу Все исполнения с маркировкой метража!

### Применение

SOLARFLEX®-X PV1-F используется для соединения гелиотермических модулей Подготовленные изделия Подготовленные фотогальванические провода/цепи от HELUKABEL ® обеспечивают высокое качество и ускоряют монтаж. Благодаря стандартизации имеет место значительное сокращение расходов. Подготовленные

фотогальванические изделия согласованы с соответствующими кабелями SOLARFLEX®; состоят по выбору из Y-образных распределителей HELUSOL, T-образных распределителей HELUSOL, адаптеров, соединительных муфт, Y-образных соединителей, ответвительных соединителей, соответствующих штекера/ гнезда в виде байонетного соединения, а также как MC3 и MC4, плюс фотогальваническая панельная розетка. Специальные компоненты для тонкой серии SOLARFLEX®. Принадлежности В дополнение к кабелям SOLARFLEX® компания HELUKABEL® предлагает обширный ассортимент принадлежностей, таких как кабельные вводы HELUTOP® с резьбовым соединением, защитные шланги HELUcond и инструменты HELUTOOL. Защитные шланги, инструменты.

## Артикулы кабеля SOLARFLEX-X PV1-F

Кабель	Артикул	Число жил x сечение (мм)	Диаметр (внешний)	Вес меди	Вес кабеля
SOLARFLEX-X PV1-F	704225	1 x 2,5	4,5	24	55
SOLARFLEX-X PV1-F	704226	1 x 4	5,2	38,4	85
SOLARFLEX-X PV1-F	704227	1 x 6	5,9	57,6	95
SOLARFLEX-X PV1-F	704228	1 x 10	6,9	96	110
SOLARFLEX-X PV1-F	704229	1 x 16	8,3	153,6	170
SOLARFLEX-X PV1-F	704230	1 x 25	10	240	295
SOLARFLEX-X PV1-F	704231	1 x 35	11	336	395
SOLARFLEX-X PV1-F	704232	1 x 50	13	480	630
SOLARFLEX-X PV1-F	704233	1 x 70	15,3	672	850
SOLARFLEX-X PV1-F	704234	1 x 95	17	912	1200

## WK POWERLINE ALU

0,6/1kV or 1,8/3kV



**Nominal cross-section:** 70 mm<sup>2</sup> to 400 mm<sup>2</sup>  
**Temperature range:** flexible installation: -20°C to +90°C  
fixed installation: -40°C to +105°C

### More flexibility for tight bending radii at the feed-in point

The HELUWIND® WK Powerline ALU is a highly flexible aluminium cable with a finely stranded structure and is designed for use in the power engineering sector; specifically, for power cabling. Due to its high flexibility and low weight, this cable is ideal for tight bending radii.

Cable for laying underground available upon request.

## ■ PHOTOVOLTAIC-CABLEACCESSORIES



### Toolset for photovoltaic cables

HELUKABEL® offers tools for cutting and stripping cables and wires, which can even be used on high-grade sheath materials.

#### Crimping and Mounting

Also available in the product range are assembling tools for connecting solar cables to the fitting plug-connector, facilitating precise crimping of the contacts. If required, we also offer specialised assembling tools.

All tools available separately



### HELUKABEL® accessories - everything from one source

Cable Glands · Cable Protection Tubing · Insulating, Shrink, Braided and High-Temperature Tubing · Sealing Ends and Straight-Joints Bundling Binding and Fastening · Identification and Marking · Wire End Ferrules and Cable Lugs · Tools

Find our product range here  
[www.helukabel.com/cableaccessories](http://www.helukabel.com/cableaccessories)

# KMK-PA-MB counternut with collar



## KMK-PA-MB

The counternut made of polyamide.  
The counternut with collar has a bigger sealing area - sealing with an additional O-ring will be simplified.

### Application

- Plant and machine construction
- Automation technology
- Vehicle construction and shipbuilding
- Installation technology
- Control cabinet construction

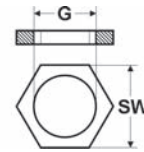
### Material

Polyamide PA 6

- halogen-free
- phosphor-free
- silicone-free
- cadmium-free

### Technical data

Temperature range: -40°C up to +100°C



### Dimensions

G Thread size inside  
SW Spanner size

### metric thread – female

Part no. light grey RAL 7035	Part no. dark grey RAL 7001	Part no. black RAL 9005	Size Metr.	Spanner size mm	Unit	
97816	94260	98163	M12 x 1,5	18	100	-
97817	94261	98164	M16 x 1,5	22	100	-
97818	94262	98165	M20 x 1,5	26	100	-
97819	94263	98166	M25 x 1,5	32	100	-
97820	94264	98167	M32 x 1,5	41	100	-
97821	94265	98168	M40 x 1,5	50	50	-
97822	94266	98169	M50 x 1,5	60	50	-
97823	94267	98170	M63 x 1,5	75	25	-

### PG thread – female

Part no. light grey RAL 7035	Part no. dark grey RAL 7001	Part no. black RAL 9005	Size PG	Spanner size mm	Unit	
90710	94250	96458	7	19	100	-
90711	94251	96228	9	22	100	-
90712	94252	96459	11	24	100	-
90713	94253	96460	13,5	27	100	-
90714	94254	96461	16	30	100	-
90715	94255	96176	21	36	100	-
90716	94256	96177	29	46	50	-
90717	94257	96462	36	60	25	-
90718	94258	96463	42	65	25	-
90719	94259	96464	48	70	25	-

### NPT thread – female

Part no. light grey RAL 7035	Part no. dark grey RAL 7001	Part no. black RAL 9005	Size NPT	Spanner size mm	Unit	
97317	90870	90875	3/8"	22	100	-
97316	90871	90876	1/2"	27	100	-
97315	90872	90877	3/4"	33	100	-
98366	90873	90878	1"	47	50	-

Dimensions and specifications may be changed without prior notice.

# HELUcond CO-PA Corrugated tubes, polyamide

Dividable



## HELUcond CO-PA

The dividable and reclosable cable protection tube for subsequent mechanical protection.

- Trouble-free retrofitting
- High mechanical strength
- Simple installation of pre-fabricated cables
- Repair of existing systems

## Application

- Plant and machine construction
- Automation technology
- Vehicle construction and shipbuilding
- Railway technology
- Installation technology
- Control cabinet construction

## Material

Polyamide 6  
UV-resistant

Flammability acc. to UL 94: HB

- halogen-free

## Properties

Resistant to a multitude of:

- Fuels
- Mineral oils
- Greases
- Weak bases
- Weak acids

## Note

Suitable connection glands:  
COV

## Technical data

Temperature range: -40°C up to +120°C  
Temperature range temporary up to +150°C

Part no. black	Nominal size mm	Inner Ø mm	Outer Ø mm	Per metres	Net EUR/ 100 metres at a purchase of		
					up to 100	101 - 500	501 - 1000
90061	10,0	8,8	13,5	50	o. r.	o. r.	o. r.
90062	14,0	13,2	18,7	50	o. r.	o. r.	o. r.
90063	20,0	20,2	25,7	50	o. r.	o. r.	o. r.
90064	23,0	23,9	31,3	50	o. r.	o. r.	o. r.
90065	37,0	32,5	43,2	25	o. r.	o. r.	o. r.
90066	45,0	43,1	54,2	25	o. r.	o. r.	o. r.
920179	70,0	67,0	79,8	10	o. r.	o. r.	o. r.

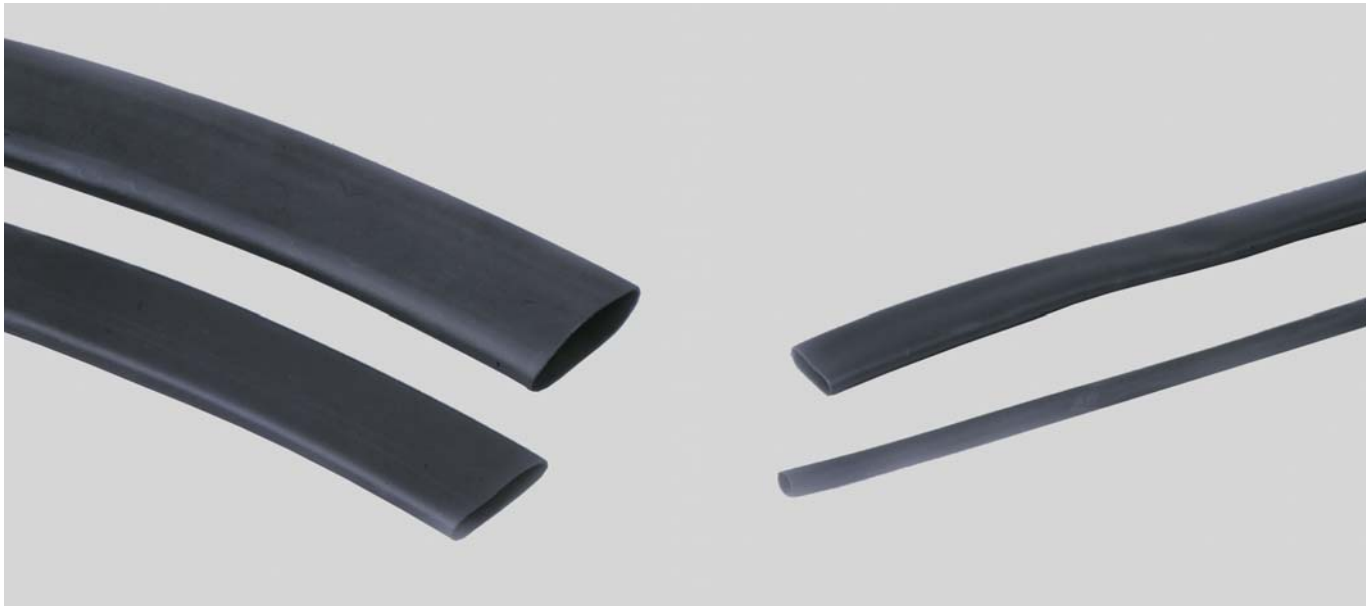
Dimensions and specifications may be changed without prior notice.

o. r. = on request



# SK-M Shrink on tube 3:1 with interior adhesive

Polyolefin - medium walled



## SK-M

Polyolefin shrink tube with internal adhesive for repairing insulation and sealing electrical components.

## Application

- Plant and machine construction
- Robotics
- Automation technology
- Vehicle construction and shipbuilding
- Installation technology
- Control cabinet construction

## Material

PO (Polyolefin) with internal adhesive

Colour: black

## Note

Form of shipment:  
1.2 m rods

## Technical data

Temperature range: -55°C up to +110°C

## Black

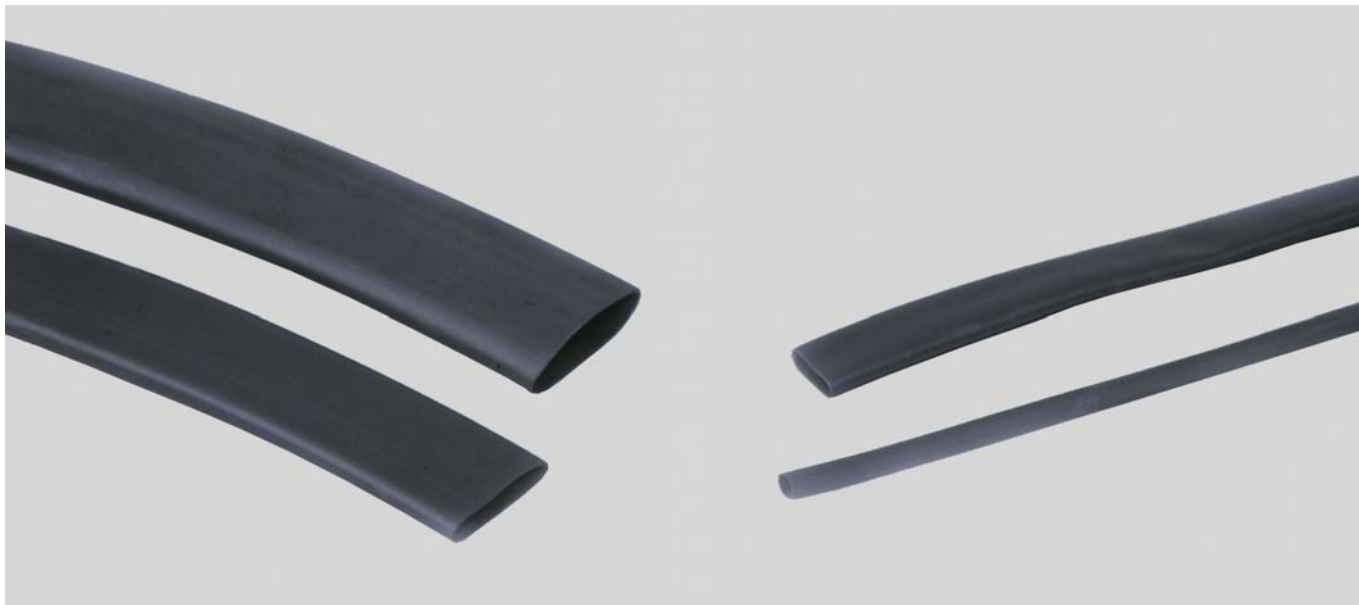
Part no.	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Unit	Net EUR/100 items at a purchase of		
						up to 5	6 - 10	11 - 20
99788	10,2	2,0	3,8	rods of 1,22m	1	o. r.	o. r.	o. r.
99789	19,1	2,0	5,6	rods of 1,22m	1	o. r.	o. r.	o. r.
99790	27,9	2,0	10,2	rods of 1,22m	1	o. r.	o. r.	o. r.
99791	33,0	2,0	10,2	rods of 1,22m	1	o. r.	o. r.	o. r.
99792	38,1	2,0	12,7	rods of 1,22m	1	o. r.	o. r.	o. r.
99793	43,2	2,0	12,7	rods of 1,22m	1	o. r.	o. r.	o. r.
99794	52,1	2,0	19,0	rods of 1,22m	1	o. r.	o. r.	o. r.
99795	69,9	2,0	25,0	rods of 1,22m	1	o. r.	o. r.	o. r.
99796	88,9	2,4	30,0	rods of 1,22m	1	o. r.	o. r.	o. r.
99797	119,4	2,7	40,0	rods of 1,22m	1	o. r.	o. r.	o. r.
99798	152,0	2,8	48,0	rods of 1,22m	1	o. r.	o. r.	o. r.
99799	170,2	2,8	58,0	rods of 1,22m	1	o. r.	o. r.	o. r.
99678	228,6	3,0	77,0	rods of 1,22m	1	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request

# SK-D Heat shrink 3:1 - with interior adhesive

Polyolefin - thick walled



## SK-D

Polyolefin shrink tube with internal adhesive for repairing insulation and sealing electrical components.

For the protection of cable sleeves and terminations for low-voltage applications (600V).

Good protection against impact and abrasion.

## Application

- Plant and machine construction
- Robotics
- Automation technology
- Vehicle construction and shipbuilding
- Installation technology
- Control cabinet construction

## Material

PO (Polyolefin) with internal adhesive

Colour: black

- halogen-free

## Note

Form of shipment:

1.2 m rods

Approval:

UR-listed up to size 68,1 mm

## Technical data

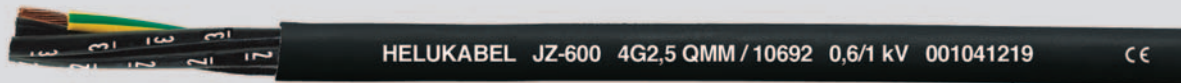
Temperature range: -55°C up to +110°C

## black

Part no.	Inner Ø before shrinkage mm	Wall thickness mm	Inner Ø after shrinkage mm	Content m	Unit	Net EUR/100 items at a purchase of		
						up to 5	6 - 10	11 - 20
905344	8,9	1,8	3,0	rods of 1,22m	1	o. r.	o. r.	o. r.
905335	13,0	2,4	4,1	rods of 1,22m	1	o. r.	o. r.	o. r.
905336	19,1	2,4	6,1	rods of 1,22m	1	o. r.	o. r.	o. r.
905337	27,9	3,0	8,9	rods of 1,22m	1	o. r.	o. r.	o. r.
905338	38,1	4,1	11,9	rods of 1,22m	1	o. r.	o. r.	o. r.
905339	50,8	4,1	16,0	rods of 1,22m	1	o. r.	o. r.	o. r.
905340	68,1	4,1	22,1	rods of 1,22m	1	o. r.	o. r.	o. r.
905731	89,9	4,1	30,0	rods of 1,22m	1	o. r.	o. r.	o. r.
905732	119,9	2,0	39,9	rods of 1,22m	1	o. r.	o. r.	o. r.

Dimensions and specifications may be changed without prior notice.

o. r. = on request

**JZ-600** flexible, number coded, 0,6/1kV, meter marking**Technical data**

- Special PVC control cable adapted to DIN VDE 0262 and DIN VDE 0285-525-2-51 / DIN EN 50525-2-51, with insulation wall thickness for 1 kV
- **Temperature range** flexing -15°C to +80°C fixed installation -40°C to +80°C
- **Nominal voltage**  $U_0/U$  0,6/1 kV
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance** min. 20 MΩm x km
- **Minimum bending radius** flexing 7,5x cable Ø fixed installation 4x cable Ø
- **Radiation resistance** up to  $80 \times 10^6$  cJ/kg (up to 80 Mrad)

**Cable structure**

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of special PVC compound type T12 to DIN VDE 0207-363-3 / DIN EN 50363-3
- Core identification to DIN VDE 0293 black cores with continuous white numbering
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layers with optimal lay-length
- Outer sheath of special PVC compound type TM2 to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1
- Sheath colour black (RAL 9005)
- with meter marking

**Properties**

- Extensively oil resistant, oil-/chemical resistance see table Technical Informations
  - The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
  - **UV-resistant**
- Tests**
- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

**Note**

- G = with green-yellow conductor x = without green-yellow conductor (OZ)
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- screened analogue type: **JZ-600-Y-CY**, confer page 60

**Application**

Wiring cable for measuring and controlling purposes in tool machinery, conveyor belts and production lines, for plant installations, air conditioning and in steel production plants and rolling mills. Suitable for installation for flexible use for medium mechanical stresses with free movement without tensile stress or forced movements in dry, moist and wet rooms as well as outside (fixed installation). Is not suitable to be used as direct burial (suitable from an outer diameter of 18,0 mm for direct burial) or as underwater cable. The cores have been numbered in such a way that the numbers are easily identifiable, even if the cable has only been stripped back a few cm. The core numbers have been underlined to avoid confusion. The earth core is located in the outer layer. The black, special PVC outer sheath is resistant to the ultra violet radiation. Mainly used in South-European, Eastern and Arabian countries.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
10550	2 x 0,5	6,3	9,6	56,0	20
10551	3 G 0,5	6,6	14,4	68,0	20
10552	3 x 0,5	6,6	14,4	68,0	20
10553	4 G 0,5	7,2	19,0	100,0	20
10554	4 x 0,5	7,2	19,0	100,0	20
10555	5 G 0,5	8,0	24,0	117,0	20
10556	5 x 0,5	8,0	24,0	117,0	20
10557	6 G 0,5	8,7	29,0	126,0	20
10558	7 G 0,5	8,7	33,6	138,0	20
10559	7 x 0,5	8,7	33,6	138,0	20
10560	8 G 0,5	9,5	38,0	150,0	20
10561	8 x 0,5	9,5	38,0	150,0	20
10562	10 G 0,5	10,3	48,0	176,0	20
10563	12 G 0,5	11,2	58,0	200,0	20
10564	12 x 0,5	11,2	58,0	200,0	20
10565	14 G 0,5	12,3	67,0	230,0	20
10566	16 G 0,5	12,9	76,0	250,0	20
10567	18 G 0,5	13,8	86,0	276,0	20
10568	20 G 0,5	14,4	96,0	293,0	20
10569	21 G 0,5	14,4	96,0	305,0	20
10570	25 G 0,5	16,1	120,0	335,0	20
10571	30 G 0,5	17,2	144,0	348,0	20
10572	32 G 0,5	18,0	154,0	355,0	20
10573	34 G 0,5	18,7	163,0	520,0	20
10574	40 G 0,5	19,5	192,0	590,0	20
10575	42 G 0,5	20,1	202,0	595,0	20
10576	50 G 0,5	22,1	240,0	715,0	20
10577	52 G 0,5	22,1	252,0	740,0	20
10578	61 G 0,5	23,6	293,0	840,0	20
10579	65 G 0,5	24,4	312,0	880,0	20
10580	80 G 0,5	27,2	384,0	960,0	20
10581	100 G 0,5	31,2	480,0	1050,0	20

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
10582	2 x 0,75	6,6	14,4	66,0	19
10583	3 G 0,75	6,9	21,6	74,0	19
10584	3 x 0,75	6,9	21,6	74,0	19
10585	4 G 0,75	7,5	29,0	126,0	19
10586	4 x 0,75	7,5	29,0	126,0	19
10587	5 G 0,75	8,4	36,0	140,0	19
10588	5 x 0,75	8,4	36,0	140,0	19
10589	6 G 0,75	9,3	43,0	170,0	19
10590	6 x 0,75	9,3	43,0	170,0	19
10591	7 G 0,75	9,3	50,0	190,0	19
10592	7 x 0,75	9,3	50,0	190,0	19
10593	8 G 0,75	10,3	58,0	212,0	19
10594	8 x 0,75	10,3	58,0	212,0	19
10595	9 G 0,75	11,0	65,0	227,0	19
10596	10 G 0,75	11,0	72,0	238,0	19
10597	12 G 0,75	12,0	86,0	257,0	19
10598	12 x 0,75	12,0	86,0	257,0	19
10599	14 G 0,75	12,9	101,0	286,0	19
10600	15 G 0,75	13,8	108,0	319,0	19
10601	18 G 0,75	14,5	130,0	362,0	19
10602	20 G 0,75	15,4	144,0	394,0	19
10603	21 G 0,75	15,4	151,0	422,0	19
10604	25 G 0,75	17,2	180,0	486,0	19
10605	32 G 0,75	19,0	230,0	595,0	19
10606	34 G 0,75	19,9	245,0	638,0	19
10607	37 G 0,75	19,9	260,0	696,0	19
10608	40 G 0,75	20,7	288,0	726,0	19
10609	41 G 0,75	21,6	296,0	750,0	19
10610	42 G 0,75	21,6	302,0	770,0	19
10611	50 G 0,75	23,7	360,0	895,0	19
10612	61 G 0,75	25,3	439,0	1070,0	19
10613	65 G 0,75	26,3	468,0	1110,0	19
10614	80 G 0,75	28,9	576,0	1500,0	19
10615	100 G 0,75	32,2	720,0	1889,0	19

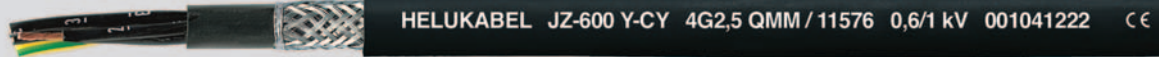
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**JZ-600** flexible, number coded, 0,6/1kV, meter marking

Part no.	No.cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.	Part no.	No.cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
10616	2 x 1	7,0	19,2	80,0	18	10690	3 G 2,5	10,1	72,0	175,0	14
10617	3 G 1	7,4	29,0	96,0	18	10691	3 x 2,5	10,1	72,0	175,0	14
10618	3 x 1	7,4	29,0	96,0	18	10692	4 G 2,5	11,2	96,0	203,0	14
10619	4 G 1	8,2	38,4	100,0	18	10693	4 x 2,5	11,2	96,0	203,0	14
10620	4 x 1	8,2	38,4	100,0	18	10694	5 G 2,5	12,5	120,0	251,0	14
10621	5 G 1	9,2	48,0	130,0	18	10695	5 x 2,5	12,5	120,0	251,0	14
10622	5 x 1	9,2	48,0	130,0	18	10696	7 G 2,5	13,8	168,0	330,0	14
10623	6 G 1	9,9	58,0	150,0	18	10697	7 x 2,5	13,8	168,0	330,0	14
10624	7 G 1	9,9	67,0	170,0	18	10698	8 G 2,5	15,1	192,0	400,0	14
10625	7 x 1	9,9	67,0	170,0	18	10699	12 G 2,5	18,3	288,0	553,0	14
10626	8 G 1	10,9	77,0	230,0	18	10700	14 G 2,5	19,6	336,0	630,0	14
10627	9 G 1	11,9	86,0	250,0	18	10701	18 G 2,5	22,0	432,0	795,0	14
10628	10 G 1	11,9	96,0	270,0	18	10702	21 G 2,5	23,3	504,0	930,0	14
10629	10 x 1	11,9	96,0	270,0	18	10703	25 G 2,5	26,2	600,0	1110,0	14
10630	12 G 1	12,8	115,0	290,0	18	10704	34 G 2,5	30,4	816,0	1450,0	14
10631	12 x 1	12,8	115,0	290,0	18	10705	42 G 2,5	33,0	1008,0	1750,0	14
10632	14 G 1	14,0	134,0	320,0	18	10706	50 G 2,5	36,2	1200,0	2100,0	14
10633	16 G 1	14,8	154,0	360,0	18	10707	61 G 2,5	38,8	1464,0	2540,0	14
10634	18 G 1	15,7	173,0	405,0	18	10708	100 G 2,5	49,8	2400,0	3850,0	14
10635	18 x 1	15,7	173,0	405,0	18	10709	2 x 4	11,0	77,0	180,0	12
10636	20 G 1	16,7	192,0	450,0	18	10710	3 G 4	11,7	115,0	230,0	12
10637	20 x 1	16,7	192,0	480,0	18	10711	4 G 4	12,9	154,0	310,0	12
10638	21 G 1	16,7	205,0	510,0	18	10712	5 G 4	14,4	192,0	410,0	12
10639	24 G 1	18,4	236,0	550,0	18	10713	7 G 4	15,8	269,0	540,0	12
10640	25 G 1	18,6	240,0	570,0	18	10714	8 G 4	17,5	307,0	710,0	12
10641	25 x 1	18,6	240,0	570,0	18	10715	12 G 4	21,0	461,0	860,0	12
10642	26 G 1	18,8	252,0	590,0	18	10716	3 G 6	13,1	173,0	370,0	10
10643	30 x 1	19,8	308,0	650,0	18	10717	4 G 6	14,5	230,0	430,0	10
10644	34 G 1	21,5	326,0	750,0	18	10718	5 G 6	16,2	288,0	650,0	10
10645	36 G 1	21,5	346,0	790,0	18	10719	7 G 6	18,0	403,0	860,0	10
10646	40 G 1	22,5	384,0	850,0	18	10720	3 G 10	16,8	288,0	660,0	8
10647	40 x 1	22,5	384,0	850,0	18	10721	4 G 10	18,5	384,0	790,0	8
10648	41 G 1	23,3	394,0	890,0	18	10722	5 G 10	20,5	480,0	960,0	8
10649	42 G 1	23,3	403,0	900,0	18	10723	7 G 10	22,5	672,0	1300,0	8
10650	50 G 1	25,6	480,0	1100,0	18	10724	3 G 16	20,2	461,0	700,0	6
10651	56 G 1	26,4	538,0	1190,0	18	10725	4 G 16	22,4	614,0	1100,0	6
10652	61 G 1	27,3	586,0	1266,0	18	10726	5 G 16	25,0	768,0	1600,0	6
10653	65 G 1	28,3	628,0	1560,0	18	10727	7 G 16	27,4	1075,0	1890,0	6
10654	80 G 1	31,4	786,0	1810,0	18	10728	3 G 25	24,8	720,0	1450,0	4
10655	100 G 1	35,0	960,0	1950,0	18	10729	4 G 25	27,4	960,0	1600,0	4
10656	2 x 1,5	8,2	29,0	95,0	16	10730	5 G 25	30,5	1200,0	2050,0	4
10657	3 G 1,5	8,6	43,0	112,0	16	10731	7 G 25	33,8	1680,0	2900,0	4
10658	3 x 1,5	8,6	43,0	112,0	16	10732	3 G 35	27,4	1008,0	1900,0	2
10659	4 G 1,5	9,6	58,0	139,0	16	10733	4 G 35	30,3	1344,0	2400,0	2
10660	4 x 1,5	9,6	58,0	139,0	16	10734	5 G 35	33,6	1680,0	2900,0	2
10661	5 G 1,5	10,7	72,0	170,0	16	10735	3 G 50	32,4	1440,0	2700,0	1
10662	5 x 1,5	10,7	72,0	170,0	16	10736	4 G 50	35,8	1920,0	3400,0	1
10663	6 G 1,5	11,6	86,0	190,0	16	10742	5 G 50	40,0	2400,0	4361,0	1
10664	7 G 1,5	11,6	101,0	225,0	16	10737	3 G 70	36,8	2016,0	3300,0	2/0
10665	7 x 1,5	11,6	101,0	225,0	16	10738	4 G 70	40,8	2688,0	4400,0	2/0
10666	8 G 1,5	12,9	115,0	250,0	16	10743	5 G 70	45,2	3360,0	5807,0	2/0
10667	9 G 1,5	13,9	130,0	280,0	16	10739	3 G 95	41,7	2736,0	5050,0	3/0
10668	10 G 1,5	13,9	144,0	300,0	16	10740	4 G 95	46,2	3648,0	6010,0	3/0
10669	11 G 1,5	14,8	158,0	330,0	16	10744	5 G 95	51,7	4560,0	7752,0	3/0
10670	12 G 1,5	15,0	173,0	370,0	16	10741	4 G 120	51,6	4608,0	7500,0	4/0
10671	12 x 1,5	15,5	173,0	370,0	16	10745	4 G 150	58,5	5760,0	8640,0	300 kcmil
10672	14 G 1,5	16,6	202,0	400,0	16	10746	4 G 185	63,3	7104,0	10380,0	350 kcmil
10673	16 G 1,5	17,5	230,0	450,0	16						
10674	18 G 1,5	18,6	259,0	520,0	16						
10675	19 G 1,5	18,6	279,0	550,0	16						
10676	20 G 1,5	19,7	288,0	600,0	16						
10677	21 G 1,5	19,7	302,0	600,0	16						
10678	25 G 1,5	22,5	360,0	730,0	16						
10679	32 G 1,5	24,3	461,0	880,0	16						
10680	34 G 1,5	25,3	490,0	950,0	16						
10681	40 G 1,5	26,6	576,0	990,0	16						
10682	42 G 1,5	27,4	605,0	1120,0	16						
10683	50 G 1,5	30,2	720,0	1400,0	16						
10684	56 G 1,5	31,2	806,0	1530,0	16						
10685	61 G 1,5	32,2	878,0	1700,0	16						
10686	65 G 1,5	33,5	936,0	1900,0	16						
10687	80 G 1,5	36,9	1152,0	2300,0	16						
10688	100 G 1,5	41,3	1440,0	2700,0	16						
10689	2 x 2,5	9,6	48,0	160,0	14						

Dimensions and specifications may be changed without prior notice. (RA01)

# JZ-600-Y-CY flexible, number coded, 0,6/1kV, Cu screened meter marking, EMC-preferred type



## Technical data

- Adapted to DIN VDE 0262 and DIN VDE 0285-525-2-51/ DIN EN 50525-2-51
- **Temperature range**  
flexing -15°C to +80°C  
fixed installation -40°C to +80°C
- **Nominal voltage**  $U_0/U$  0,6/1 kV
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**  
min. 20 MOhm x km
- **Coupling resistance**  
max. 250 Ohm/km
- **Minimum bending radius**  
flexing 10x cable Ø  
fixed installation 5x cable Ø
- **Radiation resistance**  
up to  $80 \times 10^6$  cJ/kg (up to 80 Mrad)

## Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of Special PVC compound type T12 to DIN VDE 0207-363-3 / DIN EN 50363-3
- Core identification to DIN VDE 0293 black cores with continuous white numbering
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layers with optimal lay-length
- Inner sheath of PVC
- Tinned copper braided screen, approx. 85% coverage
- Outer sheath of special PVC compound type TM2 to DIN VDE 0207-363-4-1/DIN EN 50363-4-1
- Sheath colour black (RAL 9005)
- with meter marking

## Properties

- Extensively oil resistant, oil-/chemical resistance see table Technical Informations
  - The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
  - **UV resistant**
- ### Tests
- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

## Note

- G = with green-yellow conductor  
x = without green-yellow conductor (OZ)
- Further sizes are available on request.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- unscreened analogue type:  
**JZ-600**, confer page 40

## Application

Wiring cable for measuring and controlling purposes in tool machinery, conveyor belts and production lines, for plant installations, air conditioning and in steel production plants and rolling mills. Suitable for installation for flexible use for medium mechanical stresses with free movement without tensile stress or forced movements in dry, moist and wet rooms as well as outside (fixed installation). Is not suitable to be used as direct burial- or as underwater cable. The cores have been numbered in such a way that the numbers are easily identifiable, even if the cable has only been stripped back a few cm. The core numbers have been underlined to avoid confusion. The earth core is located in the outer layer. The black, special PVC outer sheath is resistant to the ultra violet radiation. Mainly used in South-European, Eastern and Arabian countries. Interference-free transmission of signals and pulses is assured by the high degree of screening.

**EMC** = Electromagnetic compatibility

To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

**CE** = The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
11464	2 x 0,5	8,5	41,0	129,0	20
11465	3 G 0,5	8,8	45,0	150,0	20
11466	4 G 0,5	9,4	54,0	170,0	20
11467	5 G 0,5	10,2	66,0	199,0	20
11469	7 G 0,5	10,8	79,0	235,0	20
11472	12 G 0,5	14,3	137,0	320,0	20
11475	18 G 0,5	16,4	156,0	428,0	20
11478	25 G 0,5	19,3	250,0	503,0	20
11489	2 x 0,75	8,8	46,0	143,0	19
11490	3 G 0,75	9,1	57,0	155,0	19
11491	4 G 0,75	9,9	63,0	190,0	19
11492	5 G 0,75	10,6	76,0	228,0	19
11494	7 G 0,75	11,5	100,0	323,0	19
11498	12 G 0,75	15,0	175,0	410,0	19
11501	18 G 0,75	17,2	240,0	560,0	19
11504	25 G 0,75	20,6	306,0	730,0	19

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
11516	2 x 1	9,2	54,0	150,0	18
11517	3 G 1	9,8	64,0	163,0	18
11518	4 G 1	10,4	76,0	200,0	18
11519	5 G 1	11,4	89,0	239,0	18
11521	7 G 1	12,3	114,0	289,0	18
11525	12 G 1	15,9	186,0	464,0	18
11528	18 G 1	18,2	284,0	628,0	18
11532	25 G 1	22,0	387,0	855,0	18
11546	2 x 1,5	10,4	64,0	162,0	16
11547	3 G 1,5	10,8	82,0	187,0	16
11548	4 G 1,5	11,5	99,0	240,0	16
11549	5 G 1,5	13,0	123,0	289,0	16
11551	7 G 1,5	14,2	148,0	383,0	16
11556	12 G 1,5	18,4	274,0	592,0	16
11559	18 G 1,5	21,3	386,0	806,0	16
11563	25 G 1,5	25,4	531,0	1241,0	16

Continuation ▶

# JZ-600-Y-CY flexible, number coded, 0,6/1kV, Cu screened meter marking, EMC-preferred type

EAC

A

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
11574	2 x 2,5	11,8	110,0	272,0	14
11575	3 G 2,5	12,8	148,0	298,0	14
11576	4 G 2,5	13,8	169,0	345,0	14
11577	5 G 2,5	15,0	220,0	427,0	14
11578	7 G 2,5	16,3	284,0	561,0	14
11580	12 G 2,5	21,6	470,0	857,0	14
11582	18 G 2,5	25,2	572,0	1355,0	14
11584	25 G 2,5	30,0	740,0	1995,0	14
11590	2 x 4	13,6	124,0	306,0	12
11591	3 G 4	14,6	178,0	391,0	12
11592	4 G 4	15,7	234,0	527,0	12
11593	5 G 4	17,2	284,0	700,0	12
11594	7 G 4	18,9	321,0	920,0	12
11596	12 G 4	24,5	581,0	1510,0	12
11597	2 x 6	14,9	176,0	420,0	10
11598	3 G 6	15,9	245,0	629,0	10
11599	4 G 6	17,4	316,0	731,0	10
11600	5 G 6	19,2	442,0	1105,0	10
11601	7 G 6	20,9	530,0	1465,0	10
11602	2 x 10	18,6	260,0	845,0	8
11603	3 G 10	19,8	367,0	1125,0	8
11604	4 G 10	21,5	549,0	1345,0	8
11605	5 G 10	23,5	604,0	1635,0	8
11606	7 G 10	25,6	820,0	2210,0	8
11607	2 x 16	21,8	491,0	1150,0	6

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
11608	3 G 16	23,4	653,0	1395,0	6
11609	4 G 16	25,7	807,0	1870,0	6
11610	5 G 16	28,5	940,0	2720,0	6
11611	7 G 16	31,4	1345,0	3213,0	6
11612	3 G 25	28,2	920,0	2465,0	4
11613	4 G 25	31,3	1169,0	2750,0	4
11614	5 G 25	34,5	1420,0	3490,0	4
11615	7 G 25	37,8	1921,0	4980,0	4
11616	3 G 35	31,2	1250,0	3230,0	2
11617	4 G 35	34,5	1680,0	4100,0	2
11618	5 G 35	38,0	2020,0	4950,0	2
11619	3 G 50	36,5	1887,0	4590,0	1
11620	4 G 50	40,5	2370,0	5780,0	1
11621	5 G 50	45,2	2880,0	7210,0	1
11622	3 G 70	41,8	2516,0	5610,0	2/0
11623	4 G 70	46,0	3257,0	7480,0	2/0
11624	5 G 70	50,4	4032,0	9390,0	2/0
11625	3 G 95	46,8	3086,0	8585,0	3/0
11626	4 G 95	51,3	4060,0	10220,0	3/0
11627	5 G 95	56,1	5244,0	13800,0	3/0
11628	3 G 120	51,8	4176,0	11105,0	4/0
11629	4 G 120	56,3	5231,0	13750,0	4/0
13137	4 G 150	64,4	7760,0	15990,0	300 kcmil
13147	4 G 185	69,5	8104,0	18470,0	350 kcmil

Dimensions and specifications may be changed without prior notice. (RA01)

# H07RN-F rubber-sheathed cable, harmonized type



## Technical data

- Rubber sheathed cable H07RN-F to DIN VDE 0285-525-2-21, BS 7919 DIN EN 50525-2-21, IEC 60245-4
- **Temperature range**  
-30°C to +60°C
- Permissible **operating temperature** at conductor +60°C
- **Nominal voltage**  
U<sub>0</sub>/U 450/750 V  
in case of protected and fixed installation  
U<sub>0</sub>/U 600/1000 V
- Max. permissible **operating voltage** in three phase and one phase a.c. system  
U<sub>0</sub>/U 476/825 V  
direct current-system  
U<sub>0</sub>/U 619/1238 V
- **Test voltage** 2500 V
- **Permanent tensile load**  
max. 15 N/mm<sup>2</sup>
- **Minimum bending radius**  
for fixed installation 4x cable Ø  
for guiding over roller 7,5x cable Ø  
during winding on drums 5x cable Ø

## Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of rubber EI4 to DIN VDE 0207-363-1 / DIN EN 50363-1
- Core identification to DIN VDE 0293-308  
- up to 5 cores coloured  
- from 6 cores, black with continuous white numbering
- GN-YE conductor, 3 cores and above
- Cores stranded in layers with optimal lay-length
- Outer sheath of rubber EM2 to DIN VDE 0207-363-2-1/DIN EN 50363-2-1
- Sheath colour black

## Properties

### Resistant to

- Weather

### Tests

- **Behaviour in fire**  
to DIN VDE 0482-332-1-2  
DIN EN 60332-2-1, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- **Ozone resistant** of the insulation to DIN VDE 0472 part 805, test method A or part 805 A1, test method C
- **Oil resistant** test according to DIN VDE 0473-811-404, DIN EN 60811-404

## Note

- G = with green-yellow conductor  
x = without green-yellow conductor
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- The core identification of a single core sheathed, of an insulated wire is black.

## Application

Heavy duty rubber-sheathed flexible cables are suited for use for medium mechanical stress in dry, damp and wet areas as well as in open air and in agriculture plants. They are used for equipment in industry works such as boilers, heating plates, hand lamps, electric tools such as drills, circular saws and homework tools as well as for transportable motors or machines at site. These cables are also suitable for fixed installation on plaster, in temporary buildings and residential barracks. They are suitable for direct laying on components and mechanical parts of machines, for example lifts and cranes. They can be used in case of protected and fixed installation in tubes or in equipment as well as rotor connecting cable of motors with a working voltage up to 1000 V alternating voltage or a direct voltage up to 750 V against ground. The operating direct voltage is permitted up to 900 V against ground when they are used in rail-coaches. Installation in hazardous areas according to DIN VDE 0165 is allowed.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
37001	1 x 1,5	5,7 - 7,1	14,4	58,0	16
37002	1 x 2,5	6,3 - 7,9	24,0	71,0	14
37003	1 x 4	7,2 - 9,0	38,0	100,0	12
37004	1 x 6	7,9 - 9,8	58,0	130,0	10
37005	1 x 10	9,5 - 11,9	96,0	230,0	8
37006	1 x 16	10,8 - 13,4	154,0	290,0	6
37007	1 x 25	12,7 - 15,8	240,0	420,0	4
37008	1 x 35	14,3 - 17,9	336,0	530,0	2
37009	1 x 50	16,5 - 20,6	480,0	750,0	1
37010	1 x 70	18,6 - 23,3	672,0	960,0	2/0
37011	1 x 95	20,8 - 26,0	912,0	1250,0	3/0
37012	1 x 120	22,8 - 28,6	1152,0	1560,0	4/0
37013	1 x 150	25,2 - 31,4	1440,0	1900,0	300 kcmil
37014	1 x 185	27,6 - 34,4	1776,0	2300,0	350 kcmil
37015	1 x 240	30,6 - 38,3	2304,0	2950,0	500 kcmil
37016	1 x 300	33,5 - 41,9	2880,0	3600,0	600 kcmil
37017	1 x 400	37,4 - 46,8	3840,0	4600,0	750 kcmil
37018	1 x 500	41,3 - 52,0	4800,0	6000,0	1000 kcmil
37019	2 x 1	7,7 - 10,0	19,0	98,0	18
37020	2 x 1,5	8,5 - 11,0	29,0	135,0	16

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
37021	2 x 2,5	10,2 - 13,1	48,0	193,0	14
37022	2 x 4	11,8 - 15,1	77,0	280,0	12
37023	2 x 6	13,1 - 16,8	115,0	330,0	10
37024	2 x 10	17,7 - 22,6	192,0	586,0	8
37025	2 x 16	20,2 - 25,7	307,0	810,0	6
37026	2 x 25	24,3 - 30,7	480,0	1160,0	4
37027	3 G 1	8,3 - 10,7	29,0	130,0	18
37028	3 G 1,5	9,2 - 11,9	43,0	165,0	16

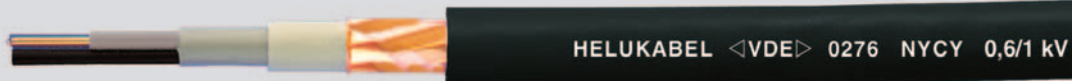
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**H07RN-F** rubber-sheathed cable, harmonized type

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.	Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
37029	3 G 2,5	10,9 - 14,0	72,0	235,0	14	37056	4 G 120	53,0 - 66,0	4608,0	6830,0	4/0
37030	3 G 4	12,7 - 16,2	115,0	320,0	12	37057	4 G 150	58,0 - 73,0	5760,0	8320,0	300 kcmil
37031	3 G 6	14,1 - 18,0	173,0	420,0	10	37058	4 G 185	64,0 - 80,0	7104,0	9800,0	350 kcmil
37032	3 G 10	19,1 - 24,2	288,0	810,0	8	37059	4 G 240	72,0 - 91,0	9216,0	12100,0	500 kcmil
37033	3 G 16	21,8 - 27,6	461,0	1050,0	6	37060	4 G 300	80,0 - 101,0	11520,0	15200,0	600 kcmil
37034	3 G 25	26,1 - 33,0	720,0	1250,0	4	37061	5 G 1,5	11,2 - 14,4	72,0	240,0	16
37035	3 G 35	29,3 - 37,1	1008,0	1900,0	2	37062	5 G 2,5	13,3 - 17,0	120,0	345,0	14
37036	3 G 50	34,1 - 42,9	1440,0	2600,0	1	37063	5 G 4	15,6 - 19,9	192,0	485,0	12
37037	3 G 70	38,4 - 48,3	2016,0	3400,0	2/0	37064	5 G 6	17,5 - 22,2	288,0	650,0	10
37038	3 G 95	43,3 - 54,0	2736,0	4450,0	3/0	37065	5 G 10	22,9 - 29,1	480,0	1200,0	8
37039	3 G 120	47,4 - 60,0	3456,0	5180,0	4/0	37066	5 G 16	26,4 - 33,3	768,0	1550,0	6
37040	3 G 150	52,0 - 66,0	4320,0	6500,0	300 kcmil	37067	5 G 25	32,0 - 40,4	1200,0	2250,0	4
37041	3 G 185	57,0 - 72,0	5328,0	7860,0	350 kcmil	37068	5 G 35	35,7 - 45,1	1680,0	2750,0	2
37042	3 G 240	65,0 - 82,0	6912,0	10224,0	500 kcmil	37091	5 G 50	41,8 - 53,0	2400,0	3950,0	1
37043	3 G 300	72,0 - 90,0	8640,0	12620,0	600 kcmil	37154	5 G 70	47,5 - 60,0	3360,0	4740,0	2/0
37044	4 G 1	9,2 - 11,9	38,0	150,0	18	34090	5 G 95	54,0 - 67,0	4560,0	6600,0	3/0
37045	4 G 1,5	10,2 - 13,1	58,0	200,0	16	34349	5 G 120	58,0 - 73,0	5760,0	8180,0	4/0
37046	4 G 2,5	12,1 - 15,5	96,0	290,0	14	34127	5 G 150	64,0 - 80,0	7200,0	10600,0	300 kcmil
37047	4 G 4	14,0 - 17,9	154,0	395,0	12	37092	7 G 1,5	14,7 - 18,7	101,0	375,0	16
37048	4 G 6	15,7 - 20,0	230,0	540,0	10	37079	7 G 2,5	17,1 - 21,8	168,0	520,0	14
37049	4 G 10	20,9 - 26,5	384,0	950,0	8	37093	12 G 1,5	17,6 - 22,4	175,0	460,0	16
37050	4 G 16	23,8 - 30,1	614,0	1260,0	6	37096	12 G 2,5	20,6 - 26,2	288,0	760,0	14
37051	4 G 25	28,9 - 36,6	960,0	1860,0	4	37097	18 G 2,5	24,4 - 30,9	432,0	850,0	14
37052	4 G 35	32,5 - 41,1	1344,0	2380,0	2	37094	19 G 1,5	20,7 - 26,3	274,0	810,0	16
37053	4 G 50	37,7 - 47,5	1920,0	3190,0	1	37098	19 G 2,5	25,5 - 31,0	456,0	1075,0	14
37054	4 G 70	42,7 - 54,0	2688,0	4260,0	2/0	37095	24 G 1,5	24,3 - 30,7	346,0	1015,0	16
37055	4 G 95	48,4 - 61,0	3648,0	5600,0	3/0	37099	24 G 2,5	28,8 - 36,4	576,0	1390,0	14

Dimensions and specifications may be changed without prior notice. (RF01)



**NYCY** power cable, 0,6/1kV, VDE approved, with concentric copper conductor**Technical data**

- Power and control cable to DIN VDE 0276 part 603, HD 603 S1 and IEC 60502  
7 cores and above to DIN VDE 0276 part 627, HD 627 S1 and IEC 60502
- **Temperature range**  
flexing -5°C to +50°C  
fixed installation -40°C to +70°C
- Permissible **operating temperature** at conductor +70°C
- Permissible **short circuit temperature** (short circuit duration max. 5 s) +160°C
- **Nominal voltage**  $U_0/U$  0,6/1 kV
- **Test voltage** 4 kV
- Max. permissible **tensile stress** with cable grip at conductor 50 N/mm<sup>2</sup>
- **Minimum bending radius**  
single-core 15x cable Ø  
multi-core 12x cable Ø
- **Caloric load values**  
see Technical Informations

**Cable structure**

- Bare copper-conductor, to DIN VDE 0295 cl.1, single-wire, BS 6360 cl.1, IEC 60228 cl.1
- Core insulation of PVC compound type DIV4 to HD 603 S1
- Core identification to DIN VDE 0293-308
- Cores stranded in concentric layers
- Filling compound
- Concentric conductor in inner layer of round copper wires, outer layer with copper tape
- Outer sheath of PVC compound type DMV5 to HD 603 S1
- Sheath colour black

**Properties**

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

**Tests**

- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

**Highest permissible voltage**

- Direct current systems 1,8 kV
- Alternating current systems
  - Single-phase systems 1,4 kV both outer conductors insulated
  - Single-phase systems 0,7 kV one outer conductor earthed
- Three-phase systems 1,2 kV with concentric conductor and a cross-section of 240 mm<sup>2</sup> and above 3,6 kV

**Note**

- re = round conductor, single-wire
- Available with outer sheath in alternative colours on request.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

**Application**

Power cables for energy supply are used for industry and distribution boards, power stations, house connecting boxes and street lighting as well as control cable for the transmission of control impulses and test datas. Overall, where increased electrical and also mechanical protection are required. Those cables are installed in open air, in underground, in water, in concrete, indoors and in cable ducts. The concentric conductor (C) is allowed to use as PE-, PEN-conductor or as screen.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
32200	1 x 10 re / 10	11,0	216,0	280,0	8
32201	1 x 16 re / 16	12,0	336,0	440,0	6
32202	2 x 1,5 re / 1,5	13,0	52,0	205,0	16
32203	2 x 2,5 re / 2,5	13,5	80,0	270,0	14
32204	2 x 4 re / 4	15,5	123,0	360,0	12
32205	2 x 6 re / 6	17,0	182,0	435,0	10
32206	2 x 10 re / 10	19,5	312,0	590,0	8
32207	2 x 16 re / 16	20,5	489,0	820,0	6
32208	3 x 1,5 re / 1,5	13,5	66,0	225,0	16
32209	3 x 2,5 re / 2,5	14,5	104,0	290,0	14
32210	3 x 4 re / 4	16,5	161,0	400,0	12
32211	3 x 6 re / 6	17,5	240,0	510,0	10
32212	3 x 10 re / 10	20,0	408,0	850,0	8
32213	3 x 16 re / 16	23,0	643,0	1080,0	6
32214	4 x 1,5 re / 1,5	14,5	81,0	260,0	16
32215	4 x 2,5 re / 2,5	15,5	128,0	350,0	14
32216	4 x 4 re / 4	17,0	200,0	470,0	12
32217	4 x 6 re / 6	18,5	297,0	590,0	10
32218	4 x 10 re / 10	21,0	504,0	900,0	8
32219	4 x 16 re / 16	23,0	796,0	1250,0	6
32220	5 x 1,5 re / 1,5	15,0	95,0	330,0	16
32221	5 x 2,5 re / 2,5	16,0	152,0	400,0	14
32222	5 x 4 re / 4	19,0	238,0	560,0	12
32223	5 x 6 re / 6	21,0	355,0	710,0	10

Continuation ▶

**NYCY** power cable, 0,6/1kV, VDE approved, with concentric copper conductor

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
32224	5 x 10 re / 10	23,0	600,0	1000,0	8
32226	7 x 1,5 re / 1,5	16,0	124,0	320,0	16
32227	7 x 1,5 re / 2,5	16,0	133,0	350,0	16
32241	7 x 2,5 re / 2,5	17,5	200,0	450,0	14
32225	7 x 4 re / 4	21,0	315,0	670,0	12
32255	7 x 6 re / 6	24,0	470,0	790,0	10
32228	8 x 1,5 re / 1,5	17,0	138,0	380,0	16
32229	8 x 1,5 re / 2,5	17,0	147,0	400,0	16
32242	8 x 2,5 re / 2,5	18,0	224,0	510,0	14
32230	10 x 1,5 re / 2,5	19,0	176,0	440,0	16
32243	10 x 2,5 re / 4	20,5	286,0	600,0	14
32231	12 x 1,5 re / 2,5	20,0	205,0	500,0	16
32244	12 x 2,5 re / 4	21,0	334,0	660,0	14
32232	14 x 1,5 re / 2,5	20,5	234,0	540,0	16
32245	14 x 2,5 re / 4	22,0	382,0	760,0	14
32246	14 x 2,5 re / 6	22,5	403,0	800,0	14
32233	16 x 1,5 re / 4	22,0	276,0	600,0	16
32247	16 x 2,5 re / 6	23,0	451,0	910,0	14
32234	19 x 1,5 re / 4	23,0	320,0	690,0	16
32248	19 x 2,5 re / 6	23,5	523,0	950,0	14
32235	21 x 1,5 re / 6	24,0	369,0	810,0	16
32249	21 x 2,5 re / 10	26,0	571,0	1100,0	14
32236	24 x 1,5 re / 6	26,0	413,0	860,0	16
32250	24 x 2,5 re / 10	28,0	696,0	1300,0	14
32237	30 x 1,5 re / 6	27,0	499,0	1230,0	16
32251	30 x 2,5 re / 10	30,0	840,0	1610,0	14
32238	40 x 1,5 re / 10	30,0	696,0	1590,0	16
32252	40 x 2,5 re / 10	35,0	1080,0	2100,0	14
32239	52 x 1,5 re / 10	32,0	869,0	1820,0	16
32253	52 x 2,5 re / 10	38,0	1368,0	2500,0	14
32240	61 x 1,5 re / 10	33,0	998,0	2000,0	16
32254	61 x 2,5 re / 10	40,0	1584,0	2850,0	14

Dimensions and specifications may be changed without prior notice. (RQ01)

**NYCWY** power cable, 0,6/1kV, with concentric copper conductor, VDE approved**Technical data**

- Power and control cable to DIN VDE 0276 part 603, HD 603 S1 and IEC 60502
- **Temperature range**  
flexing -5°C to +50°C  
fixed installation -40°C to +70°C
- Permissible **operating temperature** at conductor +70°C
- Permissible **short circuit temperature** (short circuit duration max. 5 s) +160°C
- **Nominal voltage**  $U_0/U$  0,6/1 kV
- **Test voltage** 4 kV
- Max. permissible **tensile stress** with cable grip at conductor 50 N/mm<sup>2</sup>
- **Minimum bending radius** 12x cable Ø
- **Power ratings table** see Technical Informations
- **Caloric load values** see Technical Informations

**Cable structure**

- Bare copper-conductor, to DIN VDE 0295 cl.1 or cl.2, single-wire or multi-wire, BS 6360 cl.1 or cl.2, IEC 60228 cl.1 or cl.2
- Core insulation of PVC compound type DIV4 to HD 603 S1
- Core identification to DIN VDE 0293-308
- Cores concentrically stranded
- Filling compound
- Concentric conductor (Ceander), inner layer of corrugated copper wires, outer layer with copper tape
- Outer sheath of PVC compound type DMV5 to HD 603 S1
- Sheath colour black

**Properties**

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

**Tests**

- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

**Highest permissible voltage**

- Direct current systems 1,8 kV
- Alternating current systems
  - Single-phase systems both outer conductors insulated 1,4 kV
  - Single-phase systems one outer conductor earthed 0,7 kV
- Three-phase systems 1,2 kV with concentric conductor and a cross-section of 240 mm<sup>2</sup> and above 3,6 kV

**Note**

- re = round conductor, single-wire  
rm = round conductor, multi-wire  
sm = sectional conductor, multi-wire
- Available with outer sheath in alternative colours on request
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

**Application**

Power cables for energy supply are used for industry and distribution boards, power stations, house connecting boxes and street lighting as well as control cable for the transmission of control impulses and test datas. Overall, where increased electrical and also mechanical protection are required. Those cables are installed in open air, in underground, in water, in concrete, indoors and in cable ducts. The concentric conductor (C) is allowed to use as PE-, PEN-conductor or as screen. The corrugated design (Ceander) of the concentric conductor permits any number of cable junctions during assembly, without any conductors having to be cut. This ensures a optimal reliability.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
32260	2 x 10 re / 10	19,0	312,0	650,0	8
32261	2 x 16 re / 16	21,0	489,0	850,0	6
32262	2 x 25 rm / 25	24,0	763,0	1210,0	4
32263	3 x 10 re / 10	19,5	408,0	730,0	8
32264	3 x 16 re / 16	22,0	643,0	1000,0	6
32265	3 x 25 rm / 16	26,0	902,0	1550,0	4
32274	3 x 25 rm / 25	26,0	1003,0	1600,0	4
32266	3 x 35 sm / 16	27,0	1190,0	1750,0	2
32275	3 x 35 sm / 35	27,5	1402,0	1850,0	2
32267	3 x 50 sm / 25	29,5	1723,0	2250,0	1
32276	3 x 50 sm / 50	29,5	2000,0	2450,0	1
32268	3 x 70 sm / 35	33,0	2410,0	2950,0	2/0
32277	3 x 70 sm / 70	34,0	2796,0	3350,0	2/0
32269	3 x 95 sm / 50	38,0	3296,0	4100,0	3/0
32278	3 x 95 sm / 95	38,5	3791,0	4550,0	3/0
32270	3 x 120 sm / 70	41,0	4236,0	5050,0	4/0
32279	3 x 120 sm / 120	42,0	4786,0	5550,0	4/0
32271	3 x 150 sm / 70	45,0	5100,0	6000,0	300 kcmil
32280	3 x 150 sm / 150	46,0	5970,0	6900,0	300 kcmil
32272	3 x 185 sm / 95	50,0	6383,0	7550,0	350 kcmil
32281	3 x 185 sm / 185	51,0	7363,0	8500,0	350 kcmil
32273	3 x 240 sm / 120	57,0	8242,0	9950,0	500 kcmil
32282	4 x 10 re / 10	20,5	504,0	890,0	8
32283	4 x 16 re / 16	23,5	796,0	1250,0	6

Continuation ►

**NYCWY** power cable, 0,6/1kV, with concentric copper conductor, VDE approved

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
32284	4 x 25 rm / 16	28,0	1142,0	1800,0	4
32285	4 x 35 sm / 16	29,0	1526,0	2050,0	2
32286	4 x 50 sm / 25	33,0	2203,0	2700,0	1
32287	4 x 70 sm / 35	37,0	3082,0	3750,0	2/0
32288	4 x 95 sm / 50	43,5	4208,0	5000,0	3/0
32289	4 x 120 sm / 70	47,0	5388,0	6350,0	4/0
32290	4 x 150 sm / 70	51,0	6540,0	7650,0	300 kcmil
32291	4 x 185 sm / 95	56,0	8159,0	9350,0	350 kcmil
32292	4 x 240 sm / 120	62,5	10546,0	11600,0	500 kcmil

Dimensions and specifications may be changed without prior notice. (RQ01)

**N2XH** power cable, 0,6/1 kV, halogen-free, without functionality**Technical data**

- Power and control cable acc. to DIN VDE 0276 part 604, HD 604 S1 part 1 and part 5G
- **Temperature range**  
during installation -5°C to +50°C  
fixed installation -30°C to +90°C
- Permissible **operating temperature** at conductor +90°C
- **Nominal voltage**  $U_0/U$  0,6/1 kV
- **Test voltage** 4 kV
- **Minimum bending radius**  
single-core 15x cable  $\varnothing$   
multi-core 12x cable  $\varnothing$
- **Radiation resistance**  
up to  $100 \times 10^6$  cJ/kg (up to 100 Mrad)
- **Caloric load values**  
see Technical Informations

**Cable structure**

- Bare copper-conductor, to DIN VDE 0295 cl.1 or cl.2, single-wire or multi-wire, BS 6360 cl.1 or cl.2, IEC 60228 cl.1 or cl.2
- Core insulation of cross-linked polyethylene (XLPE) compound type 2X11 to HD 604 S1
- Core identification to DIN VDE 0293-308
- Core identification for 3+½ conductor  
J-type: GN-YE (½), BN, BK, GY  
O-type: BU (½), BN, BK, GY
- Cores stranded in layers (for multi-core cables)
- Overall filled inner sheath
- Covered by filling compound or taping
- Outer sheath of thermoplastic polyolefine, compound type HM4 to HD 604 S1
- Sheath colour black

**Properties**

- Halogen-free, no separation of corrosive or toxic gases
- Limited propagation of fire
- Low smoke development
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

**Tests**

- Flame test acc. to DIN VDE 0482-332-3-24, BS 4066 part 3, DIN EN 60332-3-24, IEC 60332-3-24 (previously DIN VDE 0472 part 804 test method C)
- Corrosiveness of combustion gases acc. to DIN VDE 0482 part 267, DIN EN 50267-2-2, IEC 60754-2 (equivalent DIN VDE 0472 part 813)
- Halogen-free acc. to DIN VDE 0482 part 267, DIN EN 50267-2-1, IEC 60754-1 (equivalent DIN VDE 0472 part 815)
- Smoke density acc. to DIN VDE 0482 part 1034-1+2, DIN EN 61034-1+2, IEC 61034-1+2, BS 7622 part 1+2 (previously DIN VDE 0472 part 816)

**Note**

- re = round conductor, single-wire  
rm = round conductor, multi-wire  
sm = sectional conductor, multi-wire
- J-version = with GN-YE conductor  
O-version = without GN-YE conductor
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- **LSOH** = Low Smoke Zero Halogen

**Application**

Halogen-free power cables with enhanced characteristics in case of fire are used for applications where harm to human life and damage to property must be prevented in the event of fire, e. g. in power stations, industrial installations, communal establishments, hotels, airports, underground stations, railway stations, hospitals department stores, banks, schools theaters, multi-storey buildings, process control centres etc. Suitable for fixed installation in dry, damp or wet environments, in, above, on and beneath plaster as well as in masonry walls and in concrete. These cables are suitable for outdoor applications and in underground by using in conduits or tubes. For the installation in conduit all precautions must be taken that no accumulation of water can occur in the pipes.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no. J type	O type	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
	53558	1 x 1,5 rm	6,0	14,4	41,0	16
	53559	1 x 2,5 rm	6,5	24,0	53,0	14
53100	53248	1 x 4 re	8,0	39,0	68,0	12
53101	53249	1 x 6 re	9,0	58,0	90,0	10
53102	53250	1 x 10 re	9,0	96,0	140,0	8
53103	53251	1 x 16 re	10,0	154,0	190,0	6
53104	53252	1 x 25 rm	11,0	240,0	290,0	4
53105	53253	1 x 35 rm	12,0	336,0	390,0	2
53106	53254	1 x 50 rm	15,0	480,0	510,0	1
53107	53255	1 x 70 rm	17,0	672,0	710,0	2/0
53108	53256	1 x 95 rm	19,0	912,0	960,0	3/0
53109	53257	1 x 120 rm	21,0	1152,0	1200,0	4/0
53110	53258	1 x 150 rm	23,0	1440,0	1480,0	300 kcmil
53111	53259	1 x 185 rm	25,0	1776,0	1910,0	350 kcmil
53112	53260	1 x 240 rm	28,0	2304,0	2370,0	500 kcmil
53113	53261	1 x 300 rm	30,0	2880,0	2970,0	600 kcmil
52485	52486	1 x 400 rm	32,9	3840,0	3957,0	750 kcmil

Part no. J type	O type	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
53114	53262	2 x 1,5 re	12,0	29,0	185,0	16
53115	53263	2 x 2,5 re	12,2	48,0	220,0	14
53116	53264	2 x 4 re	13,2	77,0	275,0	12
53117	53265	2 x 6 re	14,1	115,0	335,0	10
53118	53266	2 x 10 re	16,2	192,0	450,0	8
53119	53267	2 x 16 re	17,8	307,0	620,0	6
53120	53268	2 x 25 rm	21,0	480,0	930,0	4

Continuation ▶

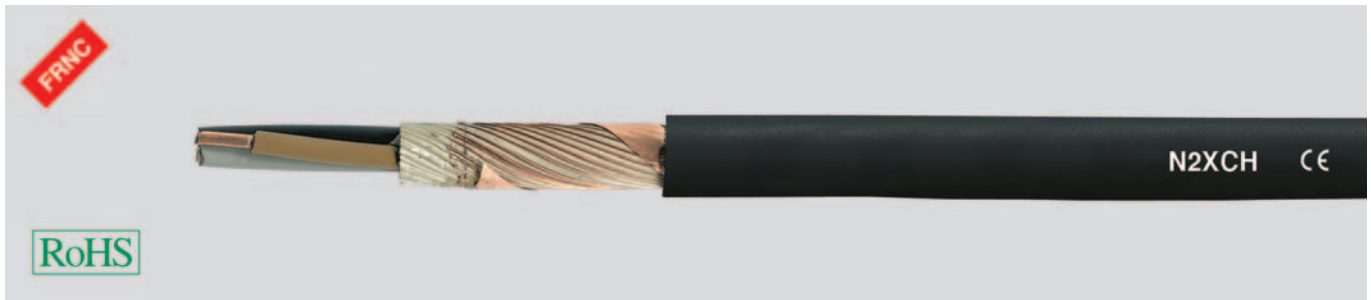
**N2XH** power cable, 0,6/1 kV, halogen-free, without functionality

Part no. J type	O type	No.cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
53121	53269	3 x 1,5 re	13,0	43,0	220,0	16
53122	53270	3 x 2,5 re	14,0	72,0	280,0	14
53123	53271	3 x 4 re	15,0	115,0	350,0	12
53124	53272	3 x 6 re	16,0	173,0	420,0	10
53125	53273	3 x 10 re	18,0	288,0	600,0	8
53126	53274	3 x 16 re	20,0	461,0	770,0	6
53127	53275	3 x 25 rm	21,8	720,0	1120,0	4
53128	53276	3 x 35 sm	24,9	1008,0	1550,0	2
53129	53277	3 x 50 sm	25,2	1440,0	1750,0	1
53130	53278	3 x 70 sm	29,2	2016,0	2450,0	2/0
53131	53279	3 x 95 sm	32,0	2736,0	3250,0	3/0
53132	53280	3 x 120 sm	34,9	3456,0	4000,0	4/0
53133	53281	3 x 150 sm	39,2	4320,0	5000,0	300 kcmil
53134	53282	3 x 185 sm	44,1	5328,0	6150,0	350 kcmil
53135	53283	3 x 240 sm	49,2	6912,0	8000,0	500 kcmil
53143	53284	4 x 1,5 re	13,0	58,0	235,0	16
53144	53285	4 x 2,5 re	14,0	96,0	290,0	14
53145	53286	4 x 4 re	15,0	154,0	370,0	12
53146	53287	4 x 6 re	16,0	230,0	470,0	10
53147	53288	4 x 10 re	18,0	384,0	670,0	8
53148	53289	4 x 16 re	20,0	614,0	930,0	6
53149	53290	4 x 25 rm	25,0	960,0	1440,0	4
53150	53291	4 x 35 sm	27,0	1344,0	1890,0	2
53151	53292	4 x 50 sm	28,0	1920,0	2300,0	1
53152	53293	4 x 70 sm	32,0	2688,0	3200,0	2/0
53153	53294	4 x 95 sm	36,0	3648,0	4250,0	3/0
53154	53295	4 x 120 sm	40,2	4608,0	5350,0	4/0
53155	53296	4 x 150 sm	45,8	5760,0	6550,0	300 kcmil
53156	53297	4 x 185 sm	49,5	7104,0	8100,0	350 kcmil
53157	53298	4 x 240 sm	56,0	9216,0	10550,0	500 kcmil
53158	53299	5 x 1,5 re	14,5	72,0	280,0	16
53159	53309	5 x 2,5 re	16,0	120,0	350,0	14
53160	53310	5 x 4 re	17,0	192,0	450,0	12
53161	53311	5 x 6 re	18,5	288,0	600,0	10
53162	53312	5 x 10 re	21,0	480,0	850,0	8
53163	53313	5 x 16 re	24,0	768,0	1200,0	6
53557		5 x 25 rm	28,0	1200,0	1539,0	4
53164	53314	7 x 1,5 re	15,5	101,0	350,0	16
53171	53315	7 x 2,5 re	17,0	168,0	370,0	14
53178	53316	7 x 4 re	17,2	269,0	530,0	12
53165	53317	10 x 1,5 re	18,5	144,0	480,0	16
53172	53318	10 x 2,5 re	20,0	240,0	500,0	14
53166	53319	12 x 1,5 re	19,0	173,0	520,0	16
53173	53320	12 x 2,5 re	21,0	288,0	560,0	14
53179	53321	12 x 4 re	21,2	461,0	800,0	12
53167	53322	14 x 1,5 re	20,0	202,0	550,0	16
53174	53323	14 x 2,5 re	22,0	336,0	630,0	14
53168	53324	19 x 1,5 re	22,0	274,0	700,0	16
53175	53325	19 x 2,5 re	24,0	456,0	800,0	14
53169	53326	24 x 1,5 re	25,0	346,0	850,0	16
53176	53327	24 x 2,5 re	27,0	576,0	990,0	14
53170	53328	30 x 1,5 re	26,0	432,0	950,0	16
53177	53329	30 x 2,5 re	28,0	720,0	1180,0	14

Part no. J type	O type	No.cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
53136	53330	3 x 50 / 25 sm	28,5	1680,0	2100,0	1
53137	53331	3 x 70 / 35 sm	31,4	2352,0	2800,0	2/0
53138	53332	3 x 95 / 50 sm	34,9	3216,0	3750,0	3/0
53139	53333	3 x 120 / 70 sm	38,0	4128,0	4750,0	4/0
53140	53334	3 x 150 / 70 sm	43,3	4992,0	5750,0	300 kcmil
53141	53335	3 x 185 / 95 sm	47,2	6240,0	7200,0	350 kcmil
53142	53336	3 x 240 / 120 sm	53,4	8064,0	9300,0	500 kcmil

Dimensions and specifications may be changed without prior notice. (RQ02)

# N2XCH power cable, 0,6/1kV, halogen-free, with concentric conductor, without functionality



## Technical data

- Power and control cable acc. to DIN VDE 0276 part 604, HD 604 S1 part 1 and part 5G
- **Temperature range**  
during installation -5°C to +50°C  
fixed installation -30°C to +90°C
- Permissible **operating temperature** at conductor +90°C
- **Nominal voltage**  $U_0/U$  0,6/1 kV
- **Test voltage** 4 kV
- **Minimum bending radius**  
12x cable Ø
- **Radiation resistance**  
up to  $100 \times 10^6$  cJ/kg (up to 100 Mrad)
- **Caloric load values**  
see Technical Informations

## Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.1 or cl.2, single-wire or multi-wire, BS 6360 cl.1 or cl.2, IEC 60228 cl.1 or cl.2
- Core insulation of cross-linked polyethylene (XLPE) compound type 2X11 to HD 604 S1
- Core identification to DIN VDE 0293-308
- Cores stranded in layers (for multi-core cables)
- Overall filled inner sheat
- Covered by filling compound or taping
- Concentric conductor of bare Cu-wires
- Outer sheath of thermoplastic polyolefine, compound type HM4 to HD 604 S1
- Sheath colour black

## Properties

- Halogen-free, no liberation of corrosive or toxic gases
- Limited propagation of fire
- Low smoke development
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Tests

- Flame test acc. to DIN VDE 0482-332-3-24, BS 4066 part 3, DIN EN 60332-3-24, IEC 60332-3-24 (previously DIN VDE 0472 part 804 test method C)
- Corrosiveness of combustion gases acc. to DIN VDE 0482 part 267, DIN EN 50267-2-2, IEC 60754-2 (equivalent DIN VDE 0472 part 813)
- Halogen-free acc. to DIN VDE 0482 part 267, DIN EN 50267-2-1, IEC 60754-1 (equivalent DIN VDE 0472 part 815)
- Smoke density acc. to DIN VDE 0482 part 1034-1+2, DIN EN 61034-1+2, IEC 61034-1+2, BS 7622 part 1+2 (previously DIN VDE 0472 part 816)

## Note

- re = round conductor, single-wire  
rm = round conductor, multi-wire  
sm = sectional conductor, multi-wire
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- **LS0H** = Low Smoke Zero Halogen

## Application

The power cables with enhanced characteristics in case of fire are used in power stations.

The concentric conductor can be used as a PE or PEN conductor or as screen. Suitable for fixed installation in dry, damp or wet environments, in, above, on and beneath plaster as well as in masonry walls and in concrete. These cables are suitable for outdoor applications and in underground by using in conduits or tubes. For the installation in conduit all precautions must be taken that no accumulation of water can occur in the pipes

CE = The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.	Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
53200	2 x 1,5 / 1,5 re	12,0	53,0	250,0	16	53223	4 x 4 / 4 re	17,5	202,0	480,0	12
53201	2 x 2,5 / 2,5 re	13,0	81,0	280,0	14	53224	4 x 6 / 6 re	19,0	297,0	600,0	10
53202	2 x 4 / 4 re	14,0	122,0	320,0	12	53225	4 x 10 / 10 re	21,5	504,0	850,0	8
53203	2 x 6 / 6 re	15,0	183,0	400,0	10	53226	4 x 16 / 16 re	24,5	797,0	1200,0	6
53204	2 x 10 / 10 re	16,0	311,0	560,0	8	53227	4 x 25 / 16 rm	29,0	1142,0	1800,0	4
53205	2 x 16 / 16 re	19,1	490,0	780,0	6	53228	4 x 35 / 16 rm	29,5	1528,0	2100,0	2
53206	3 x 1,5 / 1,5 re	13,0	67,0	250,0	16	53229	4 x 50 / 25 sm	32,5	2203,0	2800,0	1
53207	3 x 2,5 / 2,5 re	14,0	104,0	320,0	14	53230	4 x 70 / 35 sm	38,0	3082,0	3800,0	2/0
53208	3 x 4 / 4 re	16,5	161,0	400,0	12	53231	4 x 95 / 50 sm	43,5	4208,0	5100,0	3/0
53209	3 x 6 / 6 re	18,0	242,0	500,0	10	53758	4 x 120 / 70 sm	50,5	5388,0	6556,0	4/0
53210	3 x 10 / 10 re	20,0	408,0	750,0	8	53759	4 x 150 / 70 sm	52,1	6540,0	7600,0	300 kcmil
53211	3 x 16 / 16 re	22,5	643,0	1000,0	6	53760	4 x 185 / 95 sm	57,2	8159,0	9370,0	350 kcmil
53212	3 x 25 / 16 rm	27,0	902,0	1600,0	4	53761	4 x 240 / 120 sm	62,6	10546,0	11611,0	500 kcmil
53213	3 x 35 / 16 rm	27,5	1190,0	1900,0	2	53232	7 x 1,5 / 2,5 re	15,0	132,0	320,0	16
53214	3 x 50 / 25 rm	32,3	1723,0	2400,0	1	53239	7 x 2,5 / 2,5 re	15,5	200,0	400,0	14
53215	3 x 70 / 35 sm	35,6	2410,0	3060,0	2/0	53246	7 x 4 / 4 re	18,1	316,0	580,0	12
53216	3 x 95 / 50 sm	39,0	3296,0	4200,0	3/0	53233	10 x 1,5 / 2,5 re	17,2	177,0	420,0	16
53217	3 x 120 / 70 sm	42,0	4236,0	5207,0	4/0	53240	10 x 2,5 / 4 re	18,9	287,0	550,0	14
53218	3 x 150 / 70 sm	43,5	5100,0	5700,0	300 kcmil	53234	12 x 1,5 / 2,5 re	18,4	204,0	460,0	16
53219	3 x 185 / 95 sm	47,4	6383,0	7150,0	350 kcmil	53241	12 x 2,5 / 4 re	19,2	335,0	610,0	14
53220	3 x 240 / 120 sm	53,5	8240,0	9250,0	500 kcmil	53247	12 x 4 / 6 re	22,6	528,0	910,0	12
53221	4 x 1,5 / 1,5 re	13,5	81,0	300,0	16	53235	16 x 1,5 / 4 re	20,0	275,0	686,0	16
53222	4 x 2,5 / 2,5 re	14,5	129,0	380,0	14	53242	16 x 2,5 / 6 re	20,9	450,0	805,0	14

Continuation ▶

# N2XCH power cable, 0,6/1kV, halogen-free, with concentric conductor, without functionality



Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
53236	21 x 1,5 / 6 re	22,6	370,0	766,0	16
53243	21 x 2,5 / 6 re	25,2	572,0	1015,0	14
53237	24 x 1,5 / 6 re	23,2	412,0	800,0	16
53244	24 x 2,5 / 10 re	26,1	695,0	1100,0	14
53238	30 x 1,5 / 6 re	24,3	500,0	930,0	16
53245	30 x 2,5 / 10 re	28,0	842,0	1290,0	14

Dimensions and specifications may be changed without prior notice. (RQ02)



# NYM-J/-O PVC-Sheathed Cable VDE approved



## Technical data

- PVC-sheathed cable to DIN VDE 0250 part 204
- **Temperature range**  
flexing +5°C to +70°C  
fixed installation -40°C to +70°C
- **Nominal voltage**  
U<sub>0</sub>/U 300/500 V
- **Test voltage** 2000 V
- **Minimum bending radius**  
fixed installation 4x cable Ø
- **Radiation resistance**  
up to 80x10<sup>6</sup> cJ/kg (up to 80 Mrad)
- **Caloric load values**  
see Technical Informations

## Cable structure

- Solid or stranded, plain copper conductor to DIN VDE 0295 cl.1 or cl.2, BS 6360 cl.1 or cl.2 and IEC 60228 cl.1 or cl.2
- Core insulation of PVC compound type T11 to DIN VDE 0207-363-3 / DIN EN 50363-3
- Core identification to DIN VDE 0293-308
- Cores stranded in layers with optimal lay-length
- Filler
- Outer sheath of PVC compound type TM1 to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1
- Sheath colour grey (RAL 7035)

## Properties

### Tests

- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

### Note

- re = round conductor, single-wire
- rm = round conductor, multi-wire
- G = with green-yellow conductor
- x = without green-yellow conductor (OZ)
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

## Application

For industrial- and wiring purposes. Usable in the open, in dry, damp and wet environments in the open and concealed, as well as in masonry and in beton, not suitable for imbedding in solidified- or compressed-concrete. Outdoor usage is only possible, as long as the cable is protected against direct sunlight.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm <sup>2</sup>		Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
39050	1 G 1,5	re	5,4	14,4	40,0	16
39001	1 x 1,5	re	5,4	14,4	40,0	16
39006	2 x 1,5	re	8,7	29,0	170,0	16
39056	3 G 1,5	re	9,1	43,0	135,0	16
39007	3 x 1,5	re	9,1	43,0	135,0	16
39058	4 G 1,5	re	9,8	58,0	160,0	16
39009	4 x 1,5	re	9,8	58,0	160,0	16
39066	5 G 1,5	re	10,3	72,0	190,0	16
39017	5 x 1,5	re	10,3	72,0	190,0	16
39072	7 G 1,5	re	11,5	101,0	235,0	16
39023	7 x 1,5	re	11,5	101,0	235,0	16
39076	10 G 1,5	re	13,8	144,0	330,0	16
39077	12 G 1,5	re	14,4	173,0	405,0	16
39055	1 G 2,5	re	6,0	24,0	70,0	14
39024	1 x 2,5	re	6,0	24,0	70,0	14
39057	3 G 2,5	re	10,4	72,0	190,0	14
39008	3 x 2,5	re	10,4	72,0	190,0	14
39059	4 G 2,5	re	11,3	96,0	230,0	14
39010	4 x 2,5	re	11,3	96,0	230,0	14
39067	5 G 2,5	re	12,0	120,0	270,0	14
39018	5 x 2,5	re	12,0	120,0	270,0	14
39075	7 G 2,5	re	13,2	168,0	342,0	14
39051	1 G 4	re	6,6	38,0	80,0	12
39002	1 x 4	re	6,6	38,0	80,0	12
39074	3 G 4	re	12,0	115,0	258,0	12
39060	4 G 4	re	13,0	154,0	330,0	12
39011	4 x 4	re	13,0	154,0	330,0	12
39068	5 G 4	re	14,5	192,0	410,0	12
39019	5 x 4	re	14,5	192,0	410,0	12
39052	1 G 6	re	7,2	58,0	105,0	10
39003	1 x 6	re	7,2	58,0	105,0	10
39078	3 G 6	re	13,0	173,0	320,0	10

Part no.	No. cores x cross-sec. mm <sup>2</sup>		Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
39061	4 G 6	re	15,1	230,0	460,0	10
39012	4 x 6	re	15,1	230,0	460,0	10
39069	5 G 6	re	16,1	288,0	540,0	10
39020	5 x 6	re	16,1	288,0	540,0	10
39053	1 G 10	re	8,4	96,0	155,0	8
39004	1 x 10	re	8,4	96,0	155,0	8
39062	4 G 10	re	17,6	384,0	680,0	8
39013	4 x 10	re	17,6	384,0	680,0	8
39070	5 G 10	re	19,2	480,0	850,0	8
39021	5 x 10	re	19,2	480,0	850,0	8
39054	1 G 16	rm	9,9	154,0	230,0	6
39005	1 x 16	rm	9,9	154,0	230,0	6
39063	4 G 16	rm	21,3	614,0	1048,0	6
39014	4 x 16	rm	21,3	614,0	1048,0	6
39071	5 G 16	rm	23,4	768,0	1280,0	6
39022	5 x 16	rm	23,4	768,0	1280,0	6
39079	1 G 25	rm	12,0	240,0	325,0	4
39064	4 G 25	rm	25,8	960,0	1649,0	4
39015	4 x 25	rm	25,8	960,0	1649,0	4
39073	5 G 25	rm	28,7	1200,0	1970,0	4
39065	4 G 35	rm	28,5	1344,0	2000,0	2
39016	4 x 35	rm	28,5	1344,0	2000,0	2

Dimensions and specifications may be changed without prior notice. (R001)

**N2XS Y 6/10kV, 12/20kV, 18/30kV** XLPE-insulated,

Cu-conductor, single core, screened, PVC-sheath

**Technical data**

- XLPE-insulated power cables to DIN VDE 0276 part 620, HD 620 S2 and IEC 60502
- **Temperature range** during installation up to -5°C
- **Operating temperature** max. +90°C
- **Short circuit temperature** +250°C (short circuit duration max. 5 s)
- **Nominal voltages** U<sub>0</sub>/U 6/10 kV, 12/20 kV, 18/30 kV
- **Operating voltages** for 6/10 kV = max. 12 kV for 12/20 kV = max. 24 kV for 18/30 kV = max. 36 kV
- **Test voltages** for 6/10 kV = 15 kV for 12/20 kV = 30 kV for 18/30 kV = 45 kV
- **Minimum bending radius** 15x cable Ø
- **Power ratings table** see Technical Informations

**Cable structure**

- Bare copper-conductor, to DIN VDE 0295 cl.2, multi-wire, BS 6360 cl.2, IEC 60228 cl.2
- Inner semi-conducting coating
- Core insulation of cross-linked polyethylene (XLPE), compound type DIX8 to HD 620 S2
- Outer conductive layer extruded and welded with core insulation
- Conductive taping
- Screen: Braiding of copper wires with one or two tape(s) applied helically
- Wrapping
- Outer sheath of PVC compound type DMV6 to HD 620 S2
- Sheath colour red

**Properties**

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

**Tests**

- self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

**Installation notes**

- To guarantee an optimum on operating reliability the extruded semi-conductive layer is spliced with the insulation for long duration. For this reason we recommend a peeling tool for installation.

**Note**

- rm = round conductor, multi-wire
- Further dimensions available on request.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

**Application**

Suitable for installation mostly for power supply stations, in indoors and in cable ducts, outdoor with protected laying, underground and in water as well as for installation on cable trays for industries, switch-boards and power stations. Due to the good laying characteristic, this can also be laid easily in difficult line guideways. The inner conducting layer between the conductor and the XLPE insulation and the firmly bonded outer conducting layer on the XLPE insulation assures a construction free of partial discharges with high operational reliability.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Operation voltage max.	Nominal voltage kV	Insulation thickness mm	Sheath thickness Nominal value mm	Outer Ø min. - max. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
32400	1 x 35 rm / 16	12	6 / 10	3,4	2,5	23,0 - 28,0	518,0	905,0	2
32401	1 x 50 rm / 16	12	6 / 10	3,4	2,5	24,0 - 29,0	662,0	1080,0	1
32402	1 x 70 rm / 16	12	6 / 10	3,4	2,5	26,0 - 31,0	854,0	1310,0	2/0
32403	1 x 95 rm / 16	12	6 / 10	3,4	2,5	26,0 - 32,0	1094,0	1580,0	3/0
32404	1 x 120 rm / 16	12	6 / 10	3,4	2,5	28,0 - 34,0	1334,0	1860,0	4/0
32405	1 x 150 rm / 16	12	6 / 10	3,4	2,5	29,0 - 35,0	1622,0	2040,0	300 kcmil
32406	1 x 150 rm / 25	12	6 / 10	3,4	2,5	29,0 - 35,0	1723,0	2210,0	300 kcmil
32407	1 x 185 rm / 16	12	6 / 10	3,4	2,5	31,0 - 37,0	1958,0	2450,0	350 kcmil
32408	1 x 185 rm / 25	12	6 / 10	3,4	2,5	31,0 - 37,0	2059,0	2580,0	350 kcmil
32409	1 x 240 rm / 16	12	6 / 10	3,4	2,5	33,0 - 39,0	2486,0	3000,0	500 kcmil
32410	1 x 240 rm / 25	12	6 / 10	3,4	2,5	33,0 - 39,0	2587,0	3130,0	500 kcmil
32411	1 x 300 rm / 25	12	6 / 10	3,4	2,5	36,0 - 41,0	3163,0	3780,0	600 kcmil
32412	1 x 400 rm / 35	12	6 / 10	3,4	2,5	40,0 - 45,0	4234,0	4670,0	750 kcmil
32413	1 x 500 rm / 35	12	6 / 10	3,4	2,5	43,0 - 48,0	5194,0	5750,0	1000 kcmil
33099	1 x 630 rm / 35	12	6 / 10	3,4	2,5	44,0 - 49,0	6442,0	7180,0	1250 kcmil
32414	1 x 35 rm / 16	24	12 / 20	5,5	2,5	27,0 - 32,0	518,0	1110,0	2
32415	1 x 50 rm / 16	24	12 / 20	5,5	2,5	28,0 - 33,0	662,0	1250,0	1
32416	1 x 70 rm / 16	24	12 / 20	5,5	2,5	30,0 - 35,0	854,0	1510,0	2/0
32417	1 x 95 rm / 16	24	12 / 20	5,5	2,5	31,0 - 36,0	1094,0	1780,0	3/0
32418	1 x 120 rm / 16	24	12 / 20	5,5	2,5	32,0 - 38,0	1334,0	2070,0	4/0
32419	1 x 150 rm / 16	24	12 / 20	5,5	2,5	33,0 - 39,0	1622,0	2310,0	300 kcmil
32420	1 x 150 rm / 25	24	12 / 20	5,5	2,5	33,0 - 39,0	1723,0	2420,0	300 kcmil
32421	1 x 185 rm / 16	24	12 / 20	5,5	2,5	35,0 - 41,0	1958,0	2650,0	350 kcmil
32422	1 x 185 rm / 25	24	12 / 20	5,5	2,5	35,0 - 41,0	2059,0	2810,0	350 kcmil
32423	1 x 240 rm / 16	24	12 / 20	5,5	2,5	38,0 - 44,0	2486,0	3260,0	500 kcmil
32424	1 x 240 rm / 25	24	12 / 20	5,5	2,5	38,0 - 44,0	2587,0	3360,0	500 kcmil
32425	1 x 300 rm / 25	24	12 / 20	5,5	2,5	40,0 - 46,0	3163,0	4020,0	600 kcmil
32426	1 x 400 rm / 35	24	12 / 20	5,5	2,5	43,0 - 49,0	4234,0	4930,0	750 kcmil
32427	1 x 500 rm / 35	24	12 / 20	5,5	2,5	46,0 - 52,0	5194,0	6050,0	1000 kcmil
33096	1 x 630 rm / 35	24	12 / 20	5,5	2,5	47,0 - 53,0	6442,0	7510,0	1250 kcmil

Continuation ▶

# N2XS<sub>Y</sub> 6/10kV, 12/20kV, 18/30kV XLPE-insulated, Cu-conductor, single core, screened, PVC-sheath



Part no.	No. cores x cross-sec. mm <sup>2</sup>	Operation voltage max.	Nominal voltage kV	Insulation thickness mm	Sheath thickness Nominal value mm	Outer Ø min. - max. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
32428	1 x 50 rm / 16	36	18 / 30	8	2,5	32,0 - 38,0	662,0	1480,0	1
32429	1 x 70 rm / 16	36	18 / 30	8	2,5	34,0 - 40,0	854,0	1730,0	2/0
32430	1 x 95 rm / 16	36	18 / 30	8	2,5	35,0 - 41,0	1094,0	2060,0	3/0
32431	1 x 120 rm / 16	36	18 / 30	8	2,5	37,0 - 43,0	1334,0	2330,0	4/0
32432	1 x 150 rm / 25	36	18 / 30	8	2,5	38,0 - 44,0	1723,0	2720,0	300 kcmil
32433	1 x 185 rm / 25	36	18 / 30	8	2,5	40,0 - 46,0	2059,0	3100,0	350 kcmil
32434	1 x 240 rm / 25	36	18 / 30	8	2,5	42,0 - 48,0	2587,0	3730,0	500 kcmil
32435	1 x 300 rm / 25	36	18 / 30	8	2,5	45,0 - 51,0	3163,0	4000,0	600 kcmil
32436	1 x 400 rm / 35	36	18 / 30	8	2,5	48,0 - 54,0	4234,0	5330,0	750 kcmil
32437	1 x 500 rm / 35	36	18 / 30	8	2,5	51,0 - 57,0	5194,0	6480,0	1000 kcmil
33098	1 x 630 rm / 35	36	18 / 30	8	2,5	52,0 - 59,0	6442,0	7970,0	1250 kcmil

Dimensions and specifications may be changed without prior notice. (RQ03)

**N2XS2Y 6/10kV, 12/20kV, 18/30kV XLPE-insulated,****Cu-conductor, single core, screened, PE-sheath****Technical data**

- XLPE-insulated power cables to IEC 60502, DIN VDE 0276 part 620, HD 620 S2
- **Temperature range**  
during installation up to -20°C
- **Operating temperature**  
max. +90°C
- **Short circuit temperature**  
+250°C (short circuit duration max. 5 s)
- **Nominal voltages**  
U<sub>0</sub>/U 6/10 kV, 12/20 kV, 18/30 kV
- **Operating voltages**  
for 6/10 kV = max. 12 kV  
for 12/20 kV = max. 24 kV  
for 18/30 kV = max. 36 kV
- **Test voltages**  
for 6/10 kV = 15 kV  
for 12/20 kV = 30 kV  
for 18/30 kV = 45 kV
- **Minimum bending radius**  
15x cable Ø
- **Power ratings**  
see Technical Informations

**Cable structure**

- Bare copper-conductor, to DIN VDE 0295 cl.2, multi-wire, BS 6360 cl.2, IEC 60228 cl.2
- Inner semi-conducting coating
- Core insulation of cross-linked polyethylene (XLPE), compound type DIX8 to HD 620 S2
- Outer extrusion of semi-conducting coating spliced with the insulation
- Wrapping of conductive material
- Screen: Braiding of copper wires with one or two tapes applied helically
- Wrapping
- Outer sheath of PE compound type DMP2 to HD 620 S2
- Sheath colour black

**Properties**

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- **Installation notes**  
To guarantee an optimum on operating reliability the extruded semi-conductive layer is spliced with the insulation for long duration. For this reason we recommend a peeling tool for installation.

**Note**

- rm = round conductor, multi-wire
- Further dimensions available on request.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

**Application**

Suitable for indoor installation and in cable ducts, outdoors, underground and in water as well as for installation on cable trays for industries, switch-boards and power stations. The PE-outer sheath is resistant to high mechanical stress for laying the cables. This PE-sheath is not flame retardant acc. to DIN EN 60332-1-2.

The inner conducting layer between the conductor and the XLPE insulation and the firmly bonded outer conducting layer on the XLPE insulation assures a construction free of partial discharges with high operational reliability.

Part no.	No.cores x cross-sec. mm <sup>2</sup>	Operation voltage max.	Nominal voltage kV	Insulation thickness mm	Sheath thickness Nominal value mm	Outer Ø min. - max. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
32480	1 x 35 rm / 16	12	6 / 10	3,4	2,5	23,0 - 28,0	518,0	910,0	2
32481	1 x 50 rm / 16	12	6 / 10	3,4	2,5	24,0 - 29,0	662,0	990,0	1
32482	1 x 70 rm / 16	12	6 / 10	3,4	2,5	26,0 - 31,0	854,0	1205,0	2/0
32483	1 x 95 rm / 16	12	6 / 10	3,4	2,5	26,0 - 32,0	1098,0	1520,0	3/0
32484	1 x 120 rm / 16	12	6 / 10	3,4	2,5	28,0 - 34,0	1334,0	1760,0	4/0
32485	1 x 150 rm / 16	12	6 / 10	3,4	2,5	29,0 - 35,0	1622,0	2020,0	300 kcmil
32486	1 x 150 rm / 25	12	6 / 10	3,4	2,5	29,0 - 35,0	1725,0	2130,0	300 kcmil
32487	1 x 185 rm / 16	12	6 / 10	3,4	2,5	31,0 - 37,0	1958,0	2360,0	350 kcmil
32488	1 x 185 rm / 25	12	6 / 10	3,4	2,5	31,0 - 37,0	2059,0	2470,0	350 kcmil
32489	1 x 240 rm / 16	12	6 / 10	3,4	2,5	33,0 - 39,0	2486,0	2960,0	500 kcmil
32490	1 x 240 rm / 25	12	6 / 10	3,4	2,5	33,0 - 39,0	2587,0	3020,0	500 kcmil
32491	1 x 300 rm / 25	12	6 / 10	3,4	2,5	36,0 - 41,0	3163,0	3630,0	600 kcmil
32492	1 x 400 rm / 35	12	6 / 10	3,4	2,5	40,0 - 45,0	4234,0	4560,0	750 kcmil
32493	1 x 500 rm / 35	12	6 / 10	3,4	2,5	43,0 - 48,0	5194,0	5580,0	1000 kcmil
32494	1 x 35 rm / 16	24	12 / 20	5,5	2,5	27,0 - 32,0	518,0	960,0	2
32495	1 x 50 rm / 16	24	12 / 20	5,5	2,5	28,0 - 33,0	662,0	1160,0	1
32496	1 x 70 rm / 16	24	12 / 20	5,5	2,5	30,0 - 35,0	854,0	1410,0	2/0
32497	1 x 95 rm / 16	24	12 / 20	5,5	2,5	31,0 - 36,0	1094,0	1670,0	3/0
32498	1 x 120 rm / 16	24	12 / 20	5,5	2,5	33,0 - 38,0	1334,0	1960,0	4/0
32499	1 x 150 rm / 16	24	12 / 20	5,5	2,5	34,0 - 39,0	1622,0	2220,0	300 kcmil
32500	1 x 150 rm / 25	24	12 / 20	5,5	2,5	34,0 - 39,0	1723,0	2310,0	300 kcmil
32501	1 x 185 rm / 16	24	12 / 20	5,5	2,5	36,0 - 41,0	1958,0	2620,0	350 kcmil
32502	1 x 185 rm / 25	24	12 / 20	5,5	2,5	36,0 - 41,0	2059,0	2670,0	350 kcmil
32503	1 x 240 rm / 16	24	12 / 20	5,5	2,5	39,0 - 44,0	2486,0	3160,0	500 kcmil
32504	1 x 240 rm / 25	24	12 / 20	5,5	2,5	39,0 - 44,0	2587,0	3270,0	500 kcmil
32505	1 x 300 rm / 25	24	12 / 20	5,5	2,5	41,0 - 46,0	3163,0	3880,0	600 kcmil
32506	1 x 400 rm / 35	24	12 / 20	5,5	2,5	44,0 - 49,0	4234,0	4820,0	750 kcmil
32507	1 x 500 rm / 35	24	12 / 20	5,5	2,5	47,0 - 52,0	5194,0	5860,0	1000 kcmil
32508	1 x 50 rm / 16	36	18 / 30	8	2,5	32,0 - 38,0	662,0	1410,0	1
32509	1 x 70 rm / 16	36	18 / 30	8	2,5	34,0 - 40,0	854,0	1660,0	2/0

Continuation ▶

# N2XS2Y 6/10kV, 12/20kV, 18/30kV XLPE-insulated, Cu-conductor, single core, screened, PE-sheath

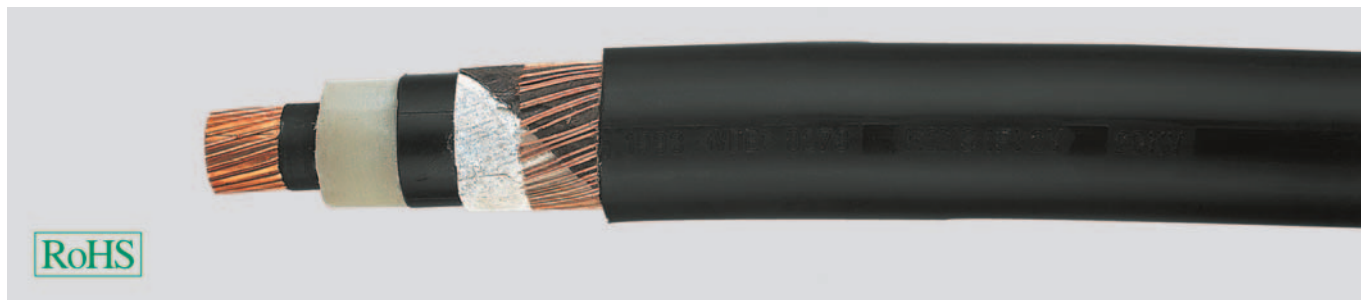


Part no.	No. cores x cross-sec. mm <sup>2</sup>	Operation voltage max.	Nominal voltage kV	Insulation thickness mm	Sheath thickness Nominal value mm	Outer Ø min. - max. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
32510	1 x 95 rm / 16	36	18 / 30	8	2,5	35,0 - 41,0	1094,0	1970,0	3/0
32511	1 x 120 rm / 16	36	18 / 30	8	2,5	37,0 - 43,0	1334,0	2220,0	4/0
32512	1 x 150 rm / 25	36	18 / 30	8	2,5	38,0 - 44,0	1723,0	2650,0	300 kcmil
32513	1 x 185 rm / 25	36	18 / 30	8	2,5	40,0 - 46,0	2059,0	2980,0	350 kcmil
32514	1 x 240 rm / 25	36	18 / 30	8	2,5	42,0 - 48,0	2587,0	3570,0	500 kcmil
32515	1 x 300 rm / 25	36	18 / 30	8	2,5	45,0 - 51,0	3163,0	4220,0	600 kcmil
32516	1 x 400 rm / 35	36	18 / 30	8	2,5	48,0 - 54,0	4234,0	5170,0	750 kcmil
32517	1 x 500 rm / 35	36	18 / 30	8	2,5	51,0 - 57,0	5194,0	6260,0	1000 kcmil

Dimensions and specifications may be changed without prior notice. (RQ03)

**N2XS(F)2Y 6/10kV, 12/20kV, 18/30kV** XLPE-insulated,

Cu-conductor, single core, longitudinally water-tight, screened, PE-sheath

**Technical data**

- XLPE-insulated power cables to DIN VDE 0276 part 620, HD 620 S2 and IEC 60502
- **Temperature range** during installation up to -20°C
- **Operating temperature** max. +90°C
- **Short circuit temperature** +250°C (short circuit duration max. 5 s)
- **Nominal voltages** U<sub>0</sub>/U 6/10 kV, 12/20 kV, 18/30 kV
- **Operating voltages** for 6/10 kV = max. 12 kV for 12/20 kV = max. 24 kV for 18/30 kV = max. 36 kV
- **Test voltages** for 6/10 kV = 15 kV for 12/20 kV = 30 kV for 18/30 kV = 45 kV
- **Minimum bending radius** 15x cable Ø
- **Power ratings** see Technical Informations

**Cable structure**

- Bare copper-conductor, to DIN VDE 0295 cl.2, multi-wire, BS 6360 cl.2, IEC 60228 cl.2
- Inner semi-conducting coating
- Core insulation of cross-linked polyethylene (XLPE), compound type DIX8 to HD 620 S2
- Outer extrusion of semi-conducting coating spliced with the XLPE-insulation
- Longitudinally water-tight, conductive wrapping
- Screen: Braiding of copper wires with one or two tapes applied helically
- Longitudinally water-tight wrapping
- Outer sheath of PE compound type DMP2 to HD 620 S2
- Sheath colour black

**Properties**

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- **Installation notes** To guarantee an optimum on operating reliability the extruded semi-conductive layer is spliced with the insulation for long duration. For this reason we recommend a peeling tool for installation

**Note**

- rm = round conductor, multi-wire
- Further types and dimensions on request.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

**Application**

Suitable for indoor installation and in cable ducts, outdoors, underground and in water as well as for installation on cable trays for industries, switch-boards and power stations. The PE-outer sheath is resistant to high mechanical stress for laying the cables. This PE sheath is not flame retardant acc. to DIN EN 60332-1-2.

The inner conducting layer between the conductor and the XLPE insulation and the firmly bonded outer conducting layer on the XLPE insulation assures a construction free of partial discharges with high operational reliability.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Operation voltage max.	Nominal voltage kV	Insulation thickness mm	Screen cross-sec. mm <sup>2</sup>	Sheath thickness Nominal value mm	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
32560	1 x 35 rm / 16	12	6 / 10	3,4	16	2,5	26,0	518,0	1050,0	2
32561	1 x 50 rm / 16	12	6 / 10	3,4	16	2,5	28,0	662,0	1150,0	1
32562	1 x 70 rm / 16	12	6 / 10	3,4	16	2,5	30,0	854,0	1460,0	2/0
32563	1 x 95 rm / 16	12	6 / 10	3,4	16	2,5	31,0	1094,0	1700,0	3/0
32564	1 x 120 rm / 16	12	6 / 10	3,4	16	2,5	32,0	1334,0	2030,0	4/0
32565	1 x 150 rm / 25	12	6 / 10	3,4	25	2,5	34,0	1723,0	2350,0	300 kcmil
32566	1 x 185 rm / 25	12	6 / 10	3,4	25	2,5	36,0	2059,0	2700,0	350 kcmil
32567	1 x 240 rm / 25	12	6 / 10	3,4	25	2,5	38,0	2587,0	3300,0	500 kcmil
32568	1 x 300 rm / 25	12	6 / 10	3,4	25	2,5	40,0	3163,0	3900,0	600 kcmil
32569	1 x 400 rm / 35	12	6 / 10	3,4	35	2,5	44,0	4234,0	4850,0	750 kcmil
32570	1 x 500 rm / 35	12	6 / 10	3,4	35	2,5	47,0	5194,0	6000,0	1000 kcmil
79954	1 x 630 rm / 35	12	6 / 10	3,4	35	2,5	49,0	6442,0	7020,0	1250 kcmil
32571	1 x 35 rm / 16	24	12 / 20	5,5	16	2,5	31,0	518,0	1210,0	2
32572	1 x 50 rm / 16	24	12 / 20	5,5	16	2,5	33,0	662,0	1400,0	1
32573	1 x 70 rm / 16	24	12 / 20	5,5	16	2,5	34,0	854,0	1550,0	2/0
32574	1 x 95 rm / 16	24	12 / 20	5,5	16	2,5	36,0	1094,0	1800,0	3/0
32575	1 x 120 rm / 16	24	12 / 20	5,5	16	2,5	37,0	1334,0	2150,0	4/0
32576	1 x 150 rm / 25	24	12 / 20	5,5	25	2,5	39,0	1723,0	2400,0	300 kcmil
32577	1 x 185 rm / 25	24	12 / 20	5,5	25	2,5	41,0	2059,0	2850,0	350 kcmil
32578	1 x 240 rm / 25	24	12 / 20	5,5	25	2,5	43,0	2587,0	3250,0	500 kcmil
32579	1 x 300 rm / 25	24	12 / 20	5,5	25	2,5	45,0	3163,0	3850,0	600 kcmil
32580	1 x 400 rm / 35	24	12 / 20	5,5	35	2,5	48,0	4234,0	4900,0	750 kcmil
32581	1 x 500 rm / 35	24	12 / 20	5,5	35	2,5	52,0	5194,0	6100,0	1000 kcmil
33092	1 x 630 rm / 35	24	12 / 20	5,5	35	2,5	54,0	6442,0	7340,0	1250 kcmil

Continuation ▶

# N2XS(F)2Y 6/10kV, 12/20kV, 18/30kV XLPE-insulated, Cu-conductor, single core, longitudinally water-tight, screened, PE-sheath

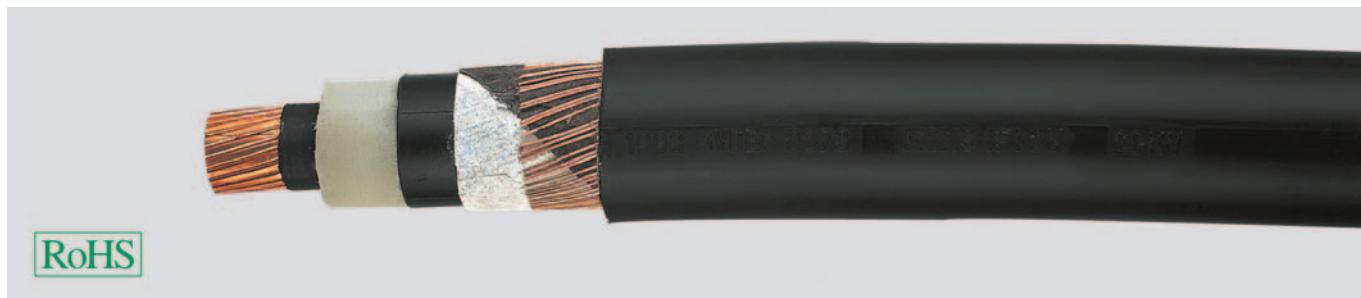


Part no.	No. cores x cross-sec. mm <sup>2</sup>	Operation voltage max.	Nominal voltage kV	Insulation thickness mm	Screen cross-sec. mm <sup>2</sup>	Sheath thickness Nominal value mm	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
32582	1 x 50 rm / 16	36	18 / 30	8	16	2,5	37,0	662,0	1700,0	1
32583	1 x 70 rm / 16	36	18 / 30	8	16	2,5	38,0	854,0	1950,0	2/0
32584	1 x 95 rm / 16	36	18 / 30	8	16	2,5	40,0	1094,0	2300,0	3/0
32585	1 x 120 rm / 16	36	18 / 30	8	16	2,5	42,0	1334,0	2600,0	4/0
32586	1 x 150 rm / 25	36	18 / 30	8	25	2,5	43,0	1723,0	3000,0	300 kcmil
32587	1 x 185 rm / 25	36	18 / 30	8	25	2,5	45,0	2059,0	3350,0	350 kcmil
32588	1 x 240 rm / 25	36	18 / 30	8	25	2,5	47,0	2587,0	4100,0	500 kcmil
32589	1 x 300 rm / 25	36	18 / 30	8	25	2,5	50,0	3163,0	4800,0	600 kcmil
32590	1 x 400 rm / 35	36	18 / 30	8	35	2,5	53,0	4234,0	5750,0	750 kcmil
32591	1 x 500 rm / 35	36	18 / 30	8	35	2,5	56,0	5194,0	6700,0	1000 kcmil
708487	1 x 630 rm / 35	36	18 / 30	8	35	2,5	59,0	6442,0	7760,0	1250 kcmil

Dimensions and specifications may be changed without prior notice. (RQ03)

**N2XS(FL)2Y 6/10kV, 12/20kV, 18/30kV** XLPE-insulated,

Cu-conductor, single core, longitudinally and crosswise water-tight, screened, PE-sheath

**NEW****Technical data**

- XLPE-insulated power cables to DIN VDE 0276 part 620, HD 620 S2 and IEC 60502
- **Temperature range** during installation up to -20°C
- **Operating temperature** max. +90°C
- **Short circuit temperature** +250°C (short circuit duration max. 5 s)
- **Nominal voltages** U<sub>0</sub>/U 6/10 kV, 12/20 kV, 18/30 kV
- **Operating voltages** for 6/10 kV = max. 12 kV for 12/20 kV = max. 24 kV for 18/30 kV = max. 36 kV
- **Test voltages** for 6/10 kV = 15 kV for 12/20 kV = 30 kV for 18/30 kV = 45 kV
- **Minimum bending radius** 15x cable Ø
- **Power ratings** see Technical Informations

**Cable structure**

- Bare copper-conductor, to DIN VDE 0295 cl.2, multi-wire, BS 6360 cl.2, IEC 60228 cl.2
- Inner semi-conducting coating
- Core insulation of cross-linked polyethylene (XLPE), compound type DIX8 to HD 620 S2
- Outer extrusion of semi-conducting coating spliced with the XLPE-insulation
- Longitudinally water-tight, conductive wrapping
- Screen: Braiding of copper wires with one or two tapes applied helically
- Longitudinally water-tight wrapping
- Aluminium tape spliced with PE sheath
- Outer sheath of PE compound type DMP2 to HD 620 S2
- Sheath colour black

**Properties**

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- **Installation notes** To guarantee an optimum on operating reliability the extruded semi-conductive layer is spliced with the insulation for long duration. For this reason we recommend a peeling tool for installation

**Note**

- rm = round conductor, multi-wire
- Further types and dimensions on request.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

**Application**

Installation primarily for power utility grids and in cable ducts, outdoors, underground and in water, and also on pallets for manufacturing plants, switchgear and power stations. The resistant Al/PE-laminated sheathing acts as a cross water barrier. It inhibits the diffusion of water. In case of sheathing damage, water impact is contained at the flaw. The cable can be severely mechanically stressed during installation and operation. The PE sheathing is not flame-retardant to DIN EN 60332-1-2. The internal conductive layer between conductor and VPE insulation and the adherent external conductive layer on the VPE insulation guarantees a design with high operational safety and no partial discharge.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Operation voltage max.	Nominal voltage kV	Insulation thickness mm	Screen cross-sec. mm <sup>2</sup>	Sheath thickness Nominal value mm	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
33054	1 x 35 rm / 16	12	6 / 10	3,4	16	2,5	28,0	518,0	860,0	2
33055	1 x 50 rm / 16	12	6 / 10	3,4	16	2,5	30,0	662,0	1000,0	1
33056	1 x 70 rm / 16	12	6 / 10	3,4	16	2,5	32,0	854,0	1350,0	2/0
33057	1 x 95 rm / 16	12	6 / 10	3,4	16	2,5	33,0	1094,0	1680,0	3/0
33058	1 x 120 rm / 16	12	6 / 10	3,4	16	2,5	34,0	1334,0	2070,0	4/0
33059	1 x 150 rm / 25	12	6 / 10	3,4	25	2,5	36,0	1723,0	2350,0	300 kcmil
33060	1 x 185 rm / 25	12	6 / 10	3,4	25	2,5	38,0	2059,0	2710,0	350 kcmil
33061	1 x 240 rm / 25	12	6 / 10	3,4	25	2,5	40,0	2587,0	3260,0	500 kcmil
38049	1 x 300 rm / 25	12	6 / 10	3,4	25	2,5	42,0	3163,0	3850,0	600 kcmil
38050	1 x 400 rm / 35	12	6 / 10	3,4	35	2,5	46,0	4234,0	4740,0	750 kcmil
38051	1 x 500 rm / 35	12	6 / 10	3,4	35	2,5	49,0	5194,0	5800,0	1000 kcmil
38052	1 x 630 rm / 35	12	6 / 10	3,4	35	2,5	51,0	6442,0	7120,0	1250 kcmil
38053	1 x 35 rm / 16	24	12 / 20	5,5	16	2,5	33,0	518,0	1020,0	2
33066	1 x 50 rm / 16	24	12 / 20	5,5	16	2,5	35,0	662,0	1170,0	1
33067	1 x 70 rm / 16	24	12 / 20	5,5	16	2,5	36,0	854,0	1470,0	2/0
33083	1 x 95 rm / 16	24	12 / 20	5,5	16	2,5	38,0	1094,0	1860,0	3/0
33069	1 x 120 rm / 16	24	12 / 20	5,5	16	2,5	39,0	1334,0	2260,0	4/0
33070	1 x 150 rm / 25	24	12 / 20	5,5	25	2,5	41,0	1723,0	2550,0	300 kcmil
33071	1 x 185 rm / 25	24	12 / 20	5,5	25	2,5	43,0	2059,0	2920,0	350 kcmil
33072	1 x 240 rm / 25	24	12 / 20	5,5	25	2,5	45,0	2587,0	3490,0	500 kcmil
33073	1 x 300 rm / 25	24	12 / 20	5,5	25	2,5	47,0	3163,0	4090,0	600 kcmil
33074	1 x 400 rm / 35	24	12 / 20	5,5	35	2,5	50,0	4234,0	5010,0	750 kcmil
33075	1 x 500 rm / 35	24	12 / 20	5,5	35	2,5	54,0	5194,0	6090,0	1000 kcmil
38054	1 x 630 rm / 35	24	12 / 20	5,5	35	2,5	55,0	6442,0	7440,0	1250 kcmil

Continuation ▶



**N2XS(FL)2Y 6/10kV, 12/20kV, 18/30kV** XLPE-insulated,

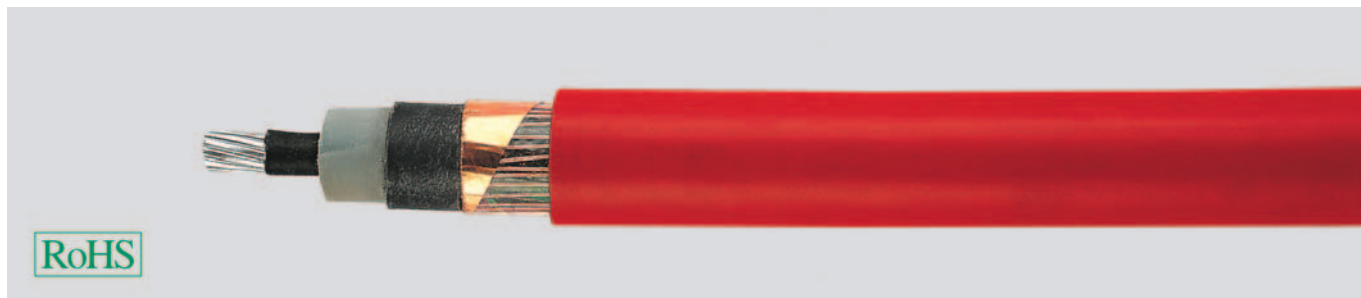
Cu-conductor, single core, longitudinally and crosswise water-tight, screened, PE-sheath



Part no.	No. cores x cross-sec. mm <sup>2</sup>	Operation voltage max.	Nominal voltage kV	Insulation thickness mm	Screen cross-sec. mm <sup>2</sup>	Sheath thickness Nominal value mm	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
34312	1 x 50 rm / 16	36	18 / 30	8	16	2,5	36,0	662,0	1400,0	1
38055	1 x 70 rm / 16	36	18 / 30	8	16	2,5	40,0	854,0	1710,0	2/0
38056	1 x 95 rm / 16	36	18 / 30	8	16	2,5	42,0	1094,0	2110,0	3/0
38057	1 x 120 rm / 16	36	18 / 30	8	16	2,5	44,0	1334,0	2520,0	4/0
38058	1 x 150 rm / 25	36	18 / 30	8	25	2,5	45,0	1723,0	2830,0	300 kcmil
34313	1 x 185 rm / 25	36	18 / 30	8	25	2,5	47,0	2059,0	3210,0	350 kcmil
38059	1 x 240 rm / 25	36	18 / 30	8	25	2,5	49,0	2587,0	3790,0	500 kcmil
34314	1 x 300 rm / 25	36	18 / 30	8	25	2,5	52,0	3163,0	4430,0	600 kcmil
34315	1 x 400 rm / 35	36	18 / 30	8	35	2,5	55,0	4234,0	5390,0	750 kcmil
38060	1 x 500 rm / 35	36	18 / 30	8	35	2,5	58,0	5194,0	6500,0	1000 kcmil
38061	1 x 630 rm / 35	36	18 / 30	8	35	2,5	60,0	6442,0	7870,0	1250 kcmil

Dimensions and specifications may be changed without prior notice. (RQ03)

# NA2XS<sub>Y</sub> 6/10kV, 12/20kV, 18/30kV XLPE-insulated, alu-conductor, single core, screened, PVC-sheath



## Technical data

- XLPE-insulated power cables to DIN VDE 0276 part 620, HD 620 S2 and IEC 60502
- **Temperature range** during installation up to -5°C
- **Operating temperature** max. +90°C
- **Short circuit temperature** +250°C (short circuit duration max. 5 s)
- **Nominal voltages** U<sub>0</sub>/U 6/10 kV, 12/20 kV, 18/30 kV
- **Operating voltages** for 6/10 kV = max. 12 kV for 12/20 kV = max. 24 kV for 18/30 kV = max. 36 kV
- **Test voltages** for 6/10 kV = 15 kV for 12/20 kV = 30 kV for 18/30 kV = 45 kV
- **Minimum bending radius** 15x cable Ø
- **Power ratings** see Technical Informations

## Cable structure

- Aluminium-conductor, to DIN VDE 0295 cl.2, multi-wire, BS 6360 cl.2, IEC 60228 cl.2
- Inner semi-conducting coating
- Core insulation of cross-linked polyethylene (XLPE), compound type DIX8 to HD 620 S2
- Outer extrusion of semi-conducting coating spliced with the insulation
- Wrapping of conductive material
- Screen: Braiding of copper wires with one or two tapes applied helically
- Wrapping
- Outer sheath of PVC compound type DMV6 to HD 620 S2
- Sheath colour red

## Properties

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- ### Tests
- self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- ### Installation notes
- To guarantee an optimum on operating reliability the extruded semi-conductive layer is spliced with the insulation for long duration. For this reason we recommend a peeling tool for installation

## Note

- rm = round conductor, multi-wire
- Further dimensions available on request.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

## Application

Suitable for installation mostly for power supply stations, in indoors and in cable ducts, outdoor with protected laying, underground and in water as well as for installation on cable trays for industries, switch-boards and power stations. Due to the good laying characteristic, this can also be laid easily in difficult line guideways.

The inner conducting layer between the conductor and the XLPE insulation and the firmly bonded outer conducting layer on the XLPE insulation assures a construction free of partial discharges with high operational reliability.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Operation voltage max.	Nominal voltage kV	Insulation thickness mm	Sheath thickness Nominal value mm	Outer Ø min. - max. mm	Cop. weight kg / km	Alu weight kg / km	Weight app. kg / km	AWG-No.
32440	1 x 50 rm / 16	12	6 / 10	3,4	2,5	24,0 - 29,0	182,0	145,0	780,0	1
32441	1 x 70 rm / 16	12	6 / 10	3,4	2,5	26,0 - 31,0	182,0	203,0	875,0	2/0
32442	1 x 95 rm / 16	12	6 / 10	3,4	2,5	26,0 - 32,0	182,0	276,0	990,0	3/0
32443	1 x 120 rm / 16	12	6 / 10	3,4	2,5	28,0 - 34,0	182,0	348,0	1110,0	4/0
32444	1 x 150 rm / 16	12	6 / 10	3,4	2,5	29,0 - 35,0	182,0	435,0	1240,0	300 kcmil
32445	1 x 150 rm / 25	12	6 / 10	3,4	2,5	29,0 - 35,0	283,0	435,0	1310,0	300 kcmil
32446	1 x 185 rm / 16	12	6 / 10	3,4	2,5	31,0 - 37,0	182,0	537,0	1405,0	350 kcmil
32447	1 x 185 rm / 25	12	6 / 10	3,4	2,5	31,0 - 37,0	283,0	537,0	1460,0	350 kcmil
32448	1 x 240 rm / 16	12	6 / 10	3,4	2,5	33,0 - 39,0	182,0	696,0	1615,0	500 kcmil
32449	1 x 240 rm / 25	12	6 / 10	3,4	2,5	33,0 - 39,0	283,0	696,0	1660,0	500 kcmil
32450	1 x 300 rm / 25	12	6 / 10	3,4	2,5	36,0 - 41,0	283,0	870,0	1910,0	600 kcmil
32451	1 x 400 rm / 35	12	6 / 10	3,4	2,5	40,0 - 45,0	394,0	1160,0	2315,0	750 kcmil
32452	1 x 500 rm / 35	12	6 / 10	3,4	2,5	43,0 - 48,0	394,0	1450,0	2750,0	1000 kcmil
32453	1 x 50 rm / 16	24	12 / 20	5,5	2,5	28,0 - 33,0	182,0	145,0	950,0	1
32454	1 x 70 rm / 16	24	12 / 20	5,5	2,5	30,0 - 35,0	182,0	203,0	1110,0	2/0
32455	1 x 95 rm / 16	24	12 / 20	5,5	2,5	31,0 - 36,0	182,0	276,0	1220,0	3/0
32456	1 x 120 rm / 16	24	12 / 20	5,5	2,5	32,0 - 38,0	182,0	348,0	1310,0	4/0
32457	1 x 150 rm / 16	24	12 / 20	5,5	2,5	33,0 - 39,0	182,0	435,0	1460,0	300 kcmil
32458	1 x 150 rm / 25	24	12 / 20	5,5	2,5	33,0 - 39,0	283,0	435,0	1520,0	300 kcmil
32459	1 x 185 rm / 16	24	12 / 20	5,5	2,5	35,0 - 41,0	182,0	537,0	1660,0	350 kcmil
32460	1 x 185 rm / 25	24	12 / 20	5,5	2,5	35,0 - 41,0	283,0	537,0	1720,0	350 kcmil
32461	1 x 240 rm / 16	24	12 / 20	5,5	2,5	38,0 - 44,0	182,0	696,0	1860,0	500 kcmil
32462	1 x 240 rm / 25	24	12 / 20	5,5	2,5	38,0 - 44,0	283,0	696,0	1910,0	500 kcmil
32463	1 x 300 rm / 25	24	12 / 20	5,5	2,5	40,0 - 46,0	283,0	870,0	2220,0	600 kcmil
32464	1 x 400 rm / 35	24	12 / 20	5,5	2,5	43,0 - 49,0	394,0	1160,0	2620,0	750 kcmil
32465	1 x 500 rm / 35	24	12 / 20	5,5	2,5	46,0 - 52,0	394,0	1450,0	3030,0	1000 kcmil
32466	1 x 50 rm / 16	36	18 / 30	8	2,5	32,0 - 38,0	182,0	145,0	1260,0	1
32467	1 x 70 rm / 16	36	18 / 30	8	2,5	34,0 - 40,0	182,0	203,0	1360,0	2/0

Continuation ▶

# NA2XS<sub>Y</sub> 6/10kV, 12/20kV, 18/30kV XLPE-insulated, alu-conductor, single core, screened, PVC-sheath



Part no.	No. cores x cross-sec. mm <sup>2</sup>	Operation voltage max.	Nominal voltage kV	Insulation thickness mm	Sheath thickness Nominal value mm	Outer Ø min. - max. mm	Cop. weight kg / km	Alu weight kg / km	Weight app. kg / km	AWG-No.
32468	1 x 95 rm / 16	36	18 / 30	8	2,5	35,0 - 41,0	182,0	276,0	1510,0	3/0
32469	1 x 120 rm / 16	36	18 / 30	8	2,5	37,0 - 43,0	182,0	348,0	1610,0	4/0
32470	1 x 150 rm / 16	36	18 / 30	8	2,5	38,0 - 44,0	182,0	435,0	1760,0	300 kcmil
32471	1 x 150 rm / 25	36	18 / 30	8	2,5	38,0 - 44,0	283,0	435,0	1810,0	300 kcmil
32472	1 x 185 rm / 16	36	18 / 30	8	2,5	40,0 - 46,0	182,0	537,0	1960,0	350 kcmil
32473	1 x 185 rm / 25	36	18 / 30	8	2,5	40,0 - 46,0	283,0	537,0	2020,0	350 kcmil
32474	1 x 240 rm / 16	36	18 / 30	8	2,5	42,0 - 48,0	182,0	696,0	2210,0	500 kcmil
32475	1 x 240 rm / 25	36	18 / 30	8	2,5	42,0 - 48,0	283,0	696,0	2260,0	500 kcmil
32476	1 x 300 rm / 25	36	18 / 30	8	2,5	45,0 - 51,0	283,0	870,0	2560,0	600 kcmil
32477	1 x 400 rm / 35	36	18 / 30	8	2,5	48,0 - 54,0	394,0	1160,0	2960,0	750 kcmil
32478	1 x 500 rm / 35	36	18 / 30	8	2,5	51,0 - 57,0	394,0	1450,0	3460,0	1000 kcmil

Dimensions and specifications may be changed without prior notice. (RQ03)

**NA2XS2Y 6/10kV, 12/20kV, 18/30kV** XLPE-insulated,

Alu-conductor, single core, screened, PE-sheath

**Technical data**

- XLPE-insulated power cables to DIN VDE 0276 part 620, HD 620 S2 and IEC 60502
- **Temperature range** during installation up to -20°C
- **Operating temperature** max. +90°C
- **Short circuit temperature** +250°C (short circuit duration max. 5 s)
- **Nominal voltages** U<sub>0</sub>/U 6/10 kV, 12/20 kV, 18/30 kV
- **Operating voltages** for 6/10 kV = max. 12 kV for 12/20 kV = max. 24 kV for 18/30 kV = max. 36 kV
- **Test voltages** for 6/10 kV = 15 kV for 12/20 kV = 30 kV for 18/30 kV = 45 kV
- **Minimum bending radius** 15x cable Ø
- **Power ratings** see Technical Informations

**Cable structure**

- Aluminium-conductor, to DIN VDE 0295 cl.2, multi-wire, BS 6360 cl.2, IEC 60228 cl.2
- Inner semi-conducting coating
- Core insulation of cross-linked polyethylene (XLPE), compound type DIX8 to HD 620 S2
- Outer extrusion of semi-conducting coating spliced with the insulation
- Wrapping of conductive material
- Screen: Braiding of copper wires with one or two tapes applied helically
- Wrapping
- Outer sheath of PE compound type DMP2 to HD 620 S2
- Sheath colour black

**Properties**

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- **Installation notes** To guarantee an optimum on operating reliability the extruded semi-conductive layer is spliced with the insulation for long duration. For this reason we recommend a peeling tool for installation.

**Note**

- rm = round conductor, multi-wire
- Further dimensions available on request.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

**Application**

Suitable for indoor installation and in cable ducts, outdoors, underground and in water as well as for installation on cable trays for industries, switch-boards and power stations. The PE-outer sheath is resistant to high mechanical stress for laying the cables. This PE sheath is not flame retardant acc. to DIN EN 60332-1-2.

The inner conducting layer between the conductor and the XLPE insulation and the firmly bonded outer conducting layer on the XLPE insulation assures a construction free of partial discharges with high operational reliability.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Operation voltage max.	Nominal voltage kV	Insulation thickness mm	Sheath thickness Nominal value mm	Outer Ø min. - max. mm	Cop. weight kg / km	Alu weight kg / km	Weight app. kg / km	AWG-No.
32520	1 x 50 rm / 16	12	6 / 10	3,4	2,5	24,0 - 29,0	182,0	145,0	710,0	1
32521	1 x 70 rm / 16	12	6 / 10	3,4	2,5	26,0 - 31,0	182,0	203,0	790,0	2/0
32522	1 x 95 rm / 16	12	6 / 10	3,4	2,5	26,0 - 32,0	182,0	276,0	920,0	3/0
32523	1 x 120 rm / 16	12	6 / 10	3,4	2,5	28,0 - 34,0	182,0	348,0	990,0	4/0
32524	1 x 150 rm / 16	12	6 / 10	3,4	2,5	29,0 - 35,0	182,0	435,0	1110,0	300 kcmil
32525	1 x 150 rm / 25	12	6 / 10	3,4	2,5	29,0 - 35,0	283,0	435,0	1220,0	300 kcmil
32526	1 x 185 rm / 16	12	6 / 10	3,4	2,5	31,0 - 37,0	182,0	537,0	1260,0	350 kcmil
32527	1 x 185 rm / 25	12	6 / 10	3,4	2,5	33,0 - 39,0	283,0	537,0	1370,0	350 kcmil
32528	1 x 240 rm / 16	12	6 / 10	3,4	2,5	33,0 - 39,0	182,0	696,0	1480,0	500 kcmil
32529	1 x 240 rm / 25	12	6 / 10	3,4	2,5	33,0 - 39,0	283,0	696,0	1530,0	500 kcmil
32530	1 x 300 rm / 25	12	6 / 10	3,4	2,5	36,0 - 41,0	283,0	870,0	1820,0	600 kcmil
32531	1 x 400 rm / 35	12	6 / 10	3,4	2,5	40,0 - 45,0	394,0	1160,0	2220,0	750 kcmil
32532	1 x 500 rm / 35	12	6 / 10	3,4	2,5	43,0 - 48,0	394,0	1450,0	2570,0	1000 kcmil
32533	1 x 50 rm / 16	24	12 / 20	5,5	2,5	28,0 - 33,0	182,0	145,0	890,0	1
32534	1 x 70 rm / 16	24	12 / 20	5,5	2,5	30,0 - 35,0	182,0	203,0	970,0	2/0
32535	1 x 95 rm / 16	24	12 / 20	5,5	2,5	31,0 - 36,0	182,0	276,0	1120,0	3/0
32536	1 x 120 rm / 16	24	12 / 20	5,5	2,5	32,0 - 38,0	182,0	348,0	1210,0	4/0
32537	1 x 150 rm / 16	24	12 / 20	5,5	2,5	33,0 - 39,0	182,0	435,0	1370,0	300 kcmil
32538	1 x 150 rm / 25	24	12 / 20	5,5	2,5	33,0 - 39,0	283,0	435,0	1420,0	300 kcmil
32539	1 x 185 rm / 16	24	12 / 20	5,5	2,5	35,0 - 41,0	182,0	537,0	1530,0	350 kcmil
32540	1 x 185 rm / 25	24	12 / 20	5,5	2,5	35,0 - 41,0	283,0	537,0	1570,0	350 kcmil
32541	1 x 240 rm / 16	24	12 / 20	5,5	2,5	38,0 - 44,0	182,0	696,0	1720,0	500 kcmil
32542	1 x 240 rm / 25	24	12 / 20	5,5	2,5	38,0 - 44,0	283,0	696,0	1830,0	500 kcmil
32543	1 x 300 rm / 25	24	12 / 20	5,5	2,5	40,0 - 46,0	283,0	870,0	2070,0	600 kcmil
32544	1 x 400 rm / 35	24	12 / 20	5,5	2,5	43,0 - 49,0	394,0	1160,0	2460,0	750 kcmil
32545	1 x 500 rm / 35	24	12 / 20	5,5	2,5	46,0 - 52,0	394,0	1450,0	2890,0	1000 kcmil
33078	1 x 630 rm / 35	24	12 / 20	5,5	2,5	47,0 - 53,0	394,0	1827,0	3370,0	1250 kcmil
32546	1 x 50 rm / 16	36	18 / 30	8	2,5	32,0 - 38,0	182,0	145,0	1120,0	1

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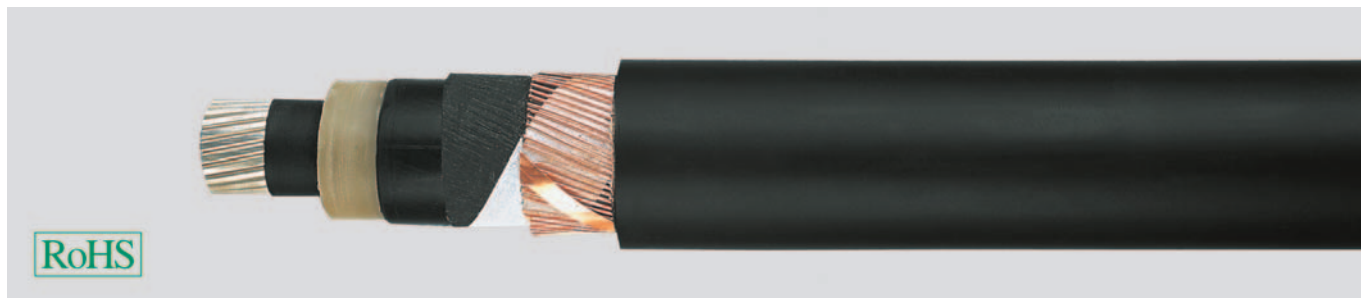
# NA2XS2Y 6/10kV, 12/20kV, 18/30kV XLPE-insulated, Alu-conductor, single core, screened, PE-sheath



Part no.	No. cores x cross-sec. mm <sup>2</sup>	Operation voltage max.	Nominal voltage kV	Insulation thickness mm	Sheath thickness Nominal value mm	Outer Ø min. - max. mm	Cop. weight kg / km	Alu weight kg / km	Weight app. kg / km	AWG-No.
32547	1 x 70 rm / 16	36	18 / 30	8	2,5	34,0 - 40,0	182,0	203,0	1270,0	2/0
32548	1 x 95 rm / 16	36	18 / 30	8	2,5	35,0 - 41,0	182,0	276,0	1380,0	3/0
32549	1 x 120 rm / 16	36	18 / 30	8	2,5	37,0 - 43,0	182,0	348,0	1530,0	4/0
32550	1 x 150 rm / 25	36	18 / 30	8	2,5	38,0 - 44,0	283,0	435,0	1720,0	300 kcmil
32551	1 x 185 rm / 25	36	18 / 30	8	2,5	40,0 - 46,0	283,0	537,0	1860,0	350 kcmil
32552	1 x 240 rm / 25	36	18 / 30	8	2,5	42,0 - 48,0	283,0	696,0	2110,0	500 kcmil
32553	1 x 300 rm / 25	36	18 / 30	8	2,5	45,0 - 51,0	283,0	870,0	2370,0	600 kcmil
32554	1 x 400 rm / 35	36	18 / 30	8	2,5	48,0 - 54,0	394,0	1160,0	2820,0	750 kcmil
32555	1 x 500 rm / 35	36	18 / 30	8	2,5	51,0 - 57,0	394,0	1450,0	3280,0	1000 kcmil
32999	1 x 630 rm / 35	36	18 / 30	8	2,5	52,0 - 59,0	394,0	1827,0	3770,0	1250 kcmil

Dimensions and specifications may be changed without prior notice. (RQ03)

# NA2XS(F)2Y 6/10kV, 12/20kV, 18/30kV XLPE-insulated, alu-conductor, single core, longitudinally water-tight, screened, PE-sheath



## Technical data

- XLPE-insulated power cables to DIN VDE 0276 part 620, HD 620 S2 and IEC 60502
- **Temperature range** during installation up to -20°C
- **Operating temperature** max. +90°C
- **Short circuit temperature** +250°C (short circuit duration max. 5 s)
- **Nominal voltages** U<sub>0</sub>/U 6/10 kV, 12/20 kV, 18/30 kV
- **Operating voltages** for 6/10 kV = max. 12 kV for 12/20 kV = max. 24 kV for 18/30 kV = max. 36 kV
- **Test voltages** for 6/10 kV = 15 kV for 12/20 kV = 30 kV for 18/30 kV = 45 kV
- **Minimum bending radius** 15x cable Ø
- **Power ratings** see Technical Informations

## Cable structure

- Aluminium-conductor, to DIN VDE 0295 cl.2, multi-wire, BS 6360 cl.2, IEC 60228 cl.2
- Inner semi-conducting coating
- Core insulation of cross-linked polyethylene (XLPE), compound type DIX8 to HD 620 S2
- Outer extrusion of semi-conducting coating spliced with the XLPE-insulation
- Longitudinally water-tight, conductive wrapping
- Screen: Braiding of copper wires with one or two tapes applied helically
- Longitudinally water-tight wrapping
- Outer sheath of PE compound type DMP2 to HD 620 S2
- Sheath colour black
- Sheath thickness voltage 2,5 mm

## Properties

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- **Installation notes** To guarantee an optimum on operating reliability the extruded semi-conductive layer is spliced with the insulation for long duration. For this reason we recommend a peeling tool for installation.

## Note

- rm = round conductor, multi-wire
- Further types and dimensions on request.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

## Application

Suitable for indoor installation and in cable ducts, outdoors, underground and in water as well as for installation on cable trays for industries, switch-boards and power stations. The PE-outer sheath is resistant to high mechanical stress for laying the cables. This PE sheath is not flame retardant acc. to DIN EN 60332-1-2.

The inner conducting layer between the conductor and the XLPE insulation and the firmly bonded outer conducting layer on the XLPE insulation assures a construction free of partial discharges with high operational reliability.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Operation voltage max.	Nominal voltage kV	Insulation thickness mm	Screen cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Alu weight kg / km	Weight app. kg / km	AWG-No.
32600	1 x 35 rm / 16	12	6 / 10	3,4	16	26,0	182,0	102,0	780,0	2
32601	1 x 50 rm / 16	12	6 / 10	3,4	16	28,0	182,0	145,0	850,0	1
32602	1 x 70 rm / 16	12	6 / 10	3,4	16	30,0	182,0	203,0	980,0	2/0
32603	1 x 95 rm / 16	12	6 / 10	3,4	16	31,0	182,0	276,0	1080,0	3/0
32604	1 x 120 rm / 16	12	6 / 10	3,4	16	32,0	182,0	348,0	1150,0	4/0
32605	1 x 150 rm / 25	12	6 / 10	3,4	25	34,0	283,0	435,0	1280,0	300 kcmil
32606	1 x 185 rm / 25	12	6 / 10	3,4	25	36,0	283,0	537,0	1420,0	350 kcmil
32607	1 x 240 rm / 25	12	6 / 10	3,4	25	38,0	283,0	696,0	1630,0	500 kcmil
32608	1 x 300 rm / 25	12	6 / 10	3,4	25	40,0	283,0	870,0	1950,0	600 kcmil
32609	1 x 400 rm / 35	12	6 / 10	3,4	35	44,0	394,0	1160,0	2350,0	750 kcmil
32610	1 x 500 rm / 35	12	6 / 10	3,4	35	47,0	394,0	1450,0	2780,0	1000 kcmil
32611	1 x 50 rm / 16	24	12 / 20	5,5	16	33,0	182,0	145,0	920,0	1
32612	1 x 70 rm / 16	24	12 / 20	5,5	16	34,0	182,0	203,0	1030,0	2/0
32613	1 x 95 rm / 16	24	12 / 20	5,5	16	36,0	182,0	276,0	1140,0	3/0
32614	1 x 120 rm / 16	24	12 / 20	5,5	16	37,0	182,0	348,0	1250,0	4/0
32615	1 x 150 rm / 25	24	12 / 20	5,5	25	39,0	283,0	435,0	1320,0	300 kcmil
32616	1 x 185 rm / 25	24	12 / 20	5,5	25	41,0	283,0	537,0	1570,0	350 kcmil
32617	1 x 240 rm / 25	24	12 / 20	5,5	25	43,0	283,0	696,0	1780,0	500 kcmil
32618	1 x 300 rm / 25	24	12 / 20	5,5	25	45,0	283,0	870,0	2100,0	600 kcmil
32619	1 x 400 rm / 35	24	12 / 20	5,5	35	48,0	394,0	1160,0	2480,0	750 kcmil
32620	1 x 500 rm / 35	24	12 / 20	5,5	35	50,0	394,0	1450,0	2900,0	1000 kcmil
33090	1 x 630 rm / 35	24	12 / 20	5,5	35	52,0	394,0	1827,0	3380,0	1250 kcmil
33091	1 x 800 rm / 35	24	12 / 20	5,5	35	57,0	394,0	2320,0	4400,0	1500 kcmil
33097	1 x 1000 rm / 35	24	12 / 20	5,5	35	62,0	394,0	2900,0	4780,0	2000 kcmil

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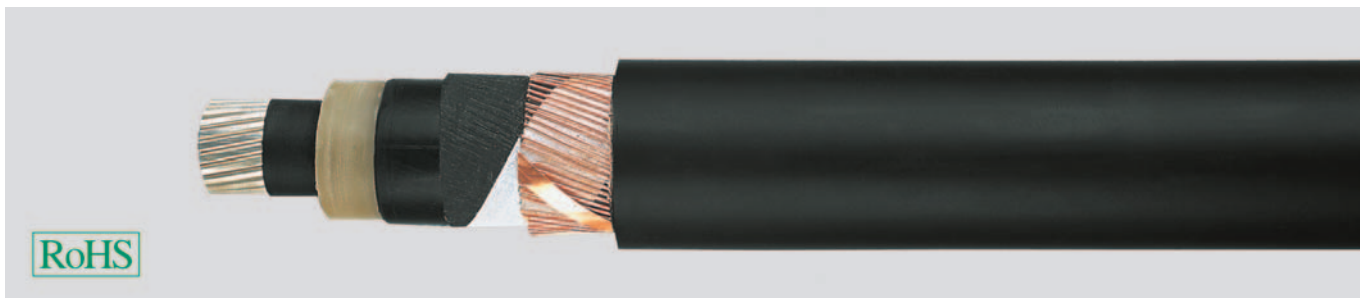
# NA2XS(F)2Y 6/10kV, 12/20kV, 18/30kV XLPE-insulated, alu-conductor, single core, longitudinally water-tight, screened, PE-sheath



Part no.	No. cores x cross-sec. mm <sup>2</sup>	Operation voltage max.	Nominal voltage kV	Insulation thickness mm	Screen cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Alu weight kg / km	Weight app. kg / km	AWG-No.
32621	1 x 50 rm / 16	36	18 / 30	8	16	37,0	182,0	145,0	1250,0	1
32622	1 x 70 rm / 16	36	18 / 30	8	16	38,0	182,0	203,0	1500,0	2/0
32623	1 x 95 rm / 16	36	18 / 30	8	16	40,0	182,0	276,0	1700,0	3/0
32624	1 x 120 rm / 16	36	18 / 30	8	16	42,0	182,0	348,0	1800,0	4/0
32625	1 x 150 rm / 25	36	18 / 30	8	25	43,0	283,0	435,0	2050,0	300 kcmil
32626	1 x 185 rm / 25	36	18 / 30	8	25	45,0	283,0	537,0	2150,0	350 kcmil
32627	1 x 240 rm / 25	36	18 / 30	8	25	47,0	283,0	696,0	2400,0	500 kcmil
32628	1 x 300 rm / 25	36	18 / 30	8	25	50,0	283,0	870,0	2700,0	600 kcmil
32629	1 x 400 rm / 35	36	18 / 30	8	35	53,0	394,0	1160,0	3200,0	750 kcmil
32630	1 x 500 rm / 35	36	18 / 30	8	35	56,0	394,0	1450,0	3555,0	1000 kcmil
31219	1 x 630 rm / 35	36	18 / 30	8	35	58,0	394,0	1827,0	3790,0	1250 kcmil

Dimensions and specifications may be changed without prior notice. (RQ03)

# NA2XS(FL)2Y 6/10kV, 12/20kV, 18/30kV XLPE-insulated, alu-conductor, single core, longitudinally and crosswise water-tight, screened, PE-sheath



NEW

## Technical data

- XLPE-insulated power cables to DIN VDE 0276 part 620, HD 620 S2 and IEC 60502
- **Temperature range** during installation up to -20°C
- **Operating temperature** max. +90°C
- **Short circuit temperature** 250°C (short circuit duration max. 5 s)
- **Nominal voltages** U<sub>0</sub>/U 6/10 kV, 12/20 kV, 18/30 kV
- **Operating voltages** for 6/10 kV = max. 12 kV for 12/20 kV = max. 24 kV for 18/30 kV = max. 36 kV
- **Test voltages** for 6/10 kV = 15 kV for 12/20 kV = 30 kV for 18/30 kV = 45 kV
- **Minimum bending radius** 15x cable Ø
- **Power ratings** see Technical Informations

## Cable structure

- Aluminium-conductor, to DIN VDE 0295 cl.2, multi-wire, BS 6360 cl.2, IEC 60228 cl.2
- Inner semi-conducting coating
- Core insulation of cross-linked polyethylene (XLPE), compound type DIX8 to HD 620 S2
- Outer extrusion of semi-conducting coating spliced with the XLPE-insulation
- Longitudinally water-tight, conductive wrapping
- Screen: Braiding of copper wires with one or two tapes applied helically
- Longitudinally water-tight wrapping
- Aluminium tape spliced with PE sheath
- Outer sheath of PE compound type DMP2 to HD 620 S2
- Sheath colour black
- Sheath wall thickness nominal value 2,5 mm

## Properties

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- **Installation notes** To guarantee an optimum on operating reliability the extruded semi-conductive layer is spliced with the insulation for long duration. For this reason we recommend a peeling tool for installation.

## Note

- rm = round conductor, multi-wire
- Further types and dimensions on request.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

## Application

Installation primarily for power utility grids and in cable ducts, outdoors, underground and in water, and also on pallets for manufacturing plants, switchgear and power stations. The resistant Al/PE-laminated sheathing acts as a cross water barrier. It inhibits the diffusion of water. In case of sheathing damage, water impact is contained at the flaw. The cable can be severely mechanically stressed during installation and operation. The PE sheathing is not flame-retardant to DIN EN 60332-1-2. The internal conductive layer between conductor and VPE insulation and the adherent external conductive layer on the VPE insulation guarantees a design with high operational safety and no partial discharge.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Operation voltage max.	Nominal voltage kV	Insulation thickness mm	Screen cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Alu weight kg / km	Weight app. kg / km	AWG-No.
38062	1 x 50 rm / 16	12	6 / 10	3,4	16	30,0	182,0	145,0	710,0	1
38063	1 x 70 rm / 16	12	6 / 10	3,4	16	32,0	182,0	203,0	890,0	2/0
38064	1 x 95 rm / 16	12	6 / 10	3,4	16	33,0	182,0	276,0	1100,0	3/0
38065	1 x 120 rm / 16	12	6 / 10	3,4	16	34,0	182,0	348,0	1330,0	4/0
38066	1 x 150 rm / 25	12	6 / 10	3,4	25	36,0	283,0	435,0	1450,0	300 kcmil
38067	1 x 185 rm / 25	12	6 / 10	3,4	25	38,0	283,0	537,0	1580,0	350 kcmil
38068	1 x 240 rm / 25	12	6 / 10	3,4	25	40,0	283,0	696,0	1780,0	500 kcmil
38069	1 x 300 rm / 25	12	6 / 10	3,4	25	42,0	283,0	870,0	1990,0	600 kcmil
38070	1 x 400 rm / 35	12	6 / 10	3,4	35	46,0	394,0	1160,0	2320,0	750 kcmil
38071	1 x 500 rm / 35	12	6 / 10	3,4	35	49,0	394,0	1450,0	2690,0	1000 kcmil
38072	1 x 630 rm / 35	12	6 / 10	3,4	35	51,0	394,0	1827,0	3160,0	1250 kcmil
38073	1 x 50 rm / 16	24	12 / 20	5,5	16	35,0	182,0	145,0	870,0	1
38074	1 x 70 rm / 16	12	12 / 20	5,5	16	36,0	182,0	203,0	1060,0	2/0
38075	1 x 95 rm / 16	24	12 / 20	5,5	16	38,0	182,0	276,0	1280,0	3/0
38076	1 x 120 rm / 16	24	12 / 20	5,5	16	39,0	182,0	348,0	1520,0	4/0
33089	1 x 150 rm / 25	24	12 / 20	5,5	25	41,0	283,0	435,0	1650,0	300 kcmil
38077	1 x 185 rm / 25	24	12 / 20	5,5	25	43,0	283,0	537,0	1800,0	350 kcmil
38078	1 x 240 rm / 25	24	12 / 20	5,5	25	45,0	283,0	696,0	2000,0	500 kcmil
38079	1 x 300 rm / 25	24	12 / 20	5,5	25	47,0	283,0	870,0	2230,0	600 kcmil
38080	1 x 400 rm / 35	24	12 / 20	5,5	35	50,0	394,0	1160,0	2580,0	750 kcmil
38081	1 x 500 rm / 35	24	12 / 20	5,5	35	54,0	394,0	1450,0	2980,0	1000 kcmil
38082	1 x 630 rm / 35	24	6 / 10	5,5	35	55,0	394,0	1827,0	3480,0	1250 kcmil

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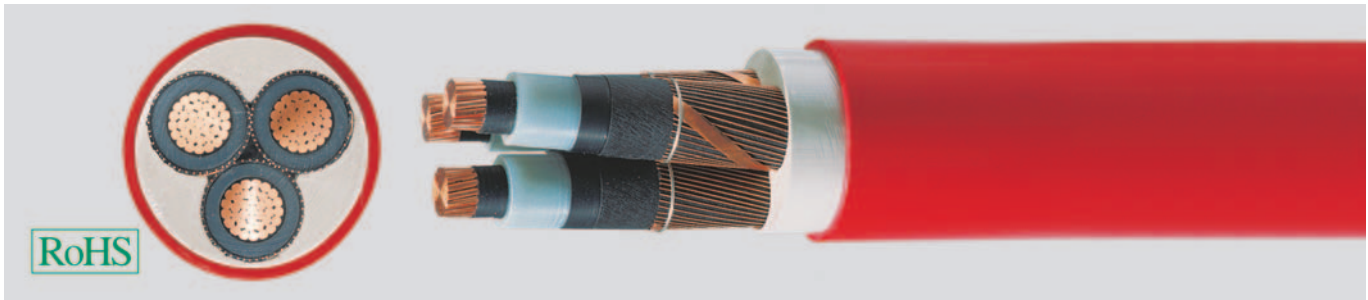


# NA2XS(FL)2Y 6/10kV, 12/20kV, 18/30kV XLPE-insulated, alu-conductor, single core, longitudinally and crosswise water-tight, screened, PE-sheath



Part no.	No. cores x cross-sec. mm <sup>2</sup>	Operation voltage max.	Nominal voltage kV	Insulation thickness mm	Screen cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Alu weight kg / km	Weight app. kg / km	AWG-No.
33084	1 x 50 rm / 16	36	18 / 30	8	16	39,0	182,0	145,0	1100,0	1
33085	1 x 70 rm / 16	36	18 / 30	8	16	40,0	182,0	203,0	1300,0	2/0
38083	1 x 95 rm / 16	36	18 / 30	8	16	42,0	182,0	276,0	1530,0	3/0
38084	1 x 120 rm / 16	36	18 / 30	8	16	44,0	182,0	348,0	1780,0	4/0
38085	1 x 150 rm / 25	36	18 / 30	8	25	45,0	283,0	435,0	1920,0	300 kcmil
38086	1 x 185 rm / 25	36	18 / 30	8	25	47,0	283,0	537,0	2080,0	350 kcmil
38087	1 x 240 rm / 25	36	10 / 30	8	25	49,0	283,0	696,0	2300,0	500 kcmil
38088	1 x 300 rm / 25	36	18 / 30	8	25	52,0	283,0	870,0	2550,0	600 kcmil
38089	1 x 400 rm / 35	36	18 / 30	8	35	55,0	394,0	1160,0	2960,0	750 kcmil
38090	1 x 500 rm / 35	36	18 / 30	8	35	30,0	394,0	1450,0	3380,0	1000 kcmil
38091	1 x 630 rm / 35	36	18 / 30	8	35	60,0	394,0	1827,0	3900,0	1250 kcmil

Dimensions and specifications may be changed without prior notice. (RQ03)

**N2XSEY 3 x ... 6/10kV** XLPE-insulated, Cu-conductor, PVC-sheath

RoHS

**Technical data**

- Three core XLPE-insulated power cables to DIN VDE 0276 and IEC 60502
- **Temperature range** during installation up to -5°C
- **Operating temperature** max. +90°C
- **Short circuit temperature** core +250°C  
screen +350°C (duration)  
(short circuit duration max. 5 s)
- **Nominal voltages**  $U_0/U$  6/10 kV
- **Operating voltages** max. 12 kV
- **Test voltages** 15 kV
- **Test voltages d.c.** 48 kV
- **Minimum bending radius** 15x cable  $\varnothing$
- **Tests**  
acc. to DIN VDE 0276 and IEC 60502

**Cable structure**

- Bare copper-conductor, to DIN VDE 0295 cl.2, multi-wire, BS 6360 cl.2, IEC 60228 cl.2
- Inner semi-conducting coating
- Core insulation of cross-linked polyethylene (XLPE)
- Outer extrusion of semi-conducting coating spliced with the XLPE-insulation
- Conductive wrapping
- Screen: Braiding of copper wires with one or two tapes applied helically
- 3 cores stranded
- Extruded sheath over three cores
- Outer sheath of PVC compound type DMV6 to HD 620 S2
- Sheath colour red

**Properties**

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

**Tests**

- self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

**Installation notes**

To guarantee an optimum on operating reliability the extruded semi-conductive layer is spliced with the insulation for long duration. For this reason we recommend a peeling tool for installation.

**Note**

- rm = round conductor, multi-wire
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- **For laying in earth:** For ground thermal resistivity of 1 Kxm/W, laying depth 0,7 m, ground temperature 20°C, EVU load grade 0,7.
- **For laying in air:** Air temperature 30°C, EVU load grade 1,0.
- Conversion factors for laying in earth especially for laying in bundle form and other requirements are noted in DIN VDE 0298 part 2 and 0276 part 1000.
- Conversion factors for laying in air
- Air temperature/Conversion factor  
15°C/1,12; 20°C/1,08; 25°C/1,04;  
30°C/1,0; 35°C/0,96; 35°C/0,96; 40°C/0,91; 45°C/0,87; 50°C/0,82;

**Application**

Suitable for installation in indoors and in cable ducts, outdoors with protected laying, as well as for laying on racks for industrial and switching systems and power plants. Limited use when buried in the earth if the PVC outer sheath could be damaged by high mechanical stress.

The inner conducting layer between the conductor and the XLPE insulation and the firmly bonded outer conducting layer on the XLPE insulation assures a construction free of partial discharges with high operational reliability.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Insulation thickness mm	Screen cross-sec. mm <sup>2</sup>	Sheath thickness Nominal value mm	Outer $\varnothing$ app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
34339	3 x 25 rm / 16	3,4	16	2,5	43,0	1046,0	2850,0	4
34340	3 x 35 rm / 16	3,4	16	2,5	48,0	1210,0	3300,0	2
34341	3 x 50 rm / 16	3,4	16	2,5	50,0	1671,0	3750,0	1
34342	3 x 70 rm / 16	3,4	16	2,6	54,0	2250,0	4650,0	2/0
34343	3 x 95 rm / 16	3,4	16	2,8	58,0	2995,0	5700,0	3/0
34344	3 x 120 rm / 16	3,4	16	2,9	61,0	3715,0	6700,0	4/0
34345	3 x 150 rm / 25	3,4	25	3,0	65,0	4638,0	7900,0	300 kcmil
34346	3 x 185 rm / 25	3,4	25	3,1	68,0	5645,0	9200,0	350 kcmil
34347	3 x 240 rm / 25	3,4	25	3,3	74,0	7274,0	11450,0	500 kcmil
34348	3 x 300 rm / 25	3,4	25	3,3	79,0	9160,0	14450,0	600 kcmil

Dimensions and specifications may be changed without prior notice. (RQ03)

**По вопросам продаж и поддержки обращайтесь:**

Алматы (7273)495-231	Казань (843)206-01-48	Новокузнецк (3843)20-46-81	Смоленск (4812)29-41-54
Архангельск (8182)63-90-72	Калининград (4012)72-03-81	Новосибирск (383)227-86-73	Сочи (862)225-72-31
Астрахань (8512)99-46-04	Калуга (4842)92-23-67	Омск (3812)21-46-40	Ставрополь (8652)20-65-13
Барнаул (3852)73-04-60	Кемерово (3842)65-04-62	Орел (4862)44-53-42	Сургут (3462)77-98-35
Белгород (4722)40-23-64	Киров (8332)68-02-04	Оренбург (3532)37-68-04	Тверь (4822)63-31-35
Брянск (4832)59-03-52	Краснодар (861)203-40-90	Пенза (8412)22-31-16	Томск (3822)98-41-53
Владивосток (423)249-28-31	Красноярск (391)204-63-61	Пермь (342)205-81-47	Тула (4872)74-02-29
Волгоград (844)278-03-48	Курск (4712)77-13-04	Ростов-на-Дону (863)308-18-15	Тюмень (3452)66-21-18
Вологда (8172)26-41-59	Липецк (4742)52-20-81	Рязань (4912)46-61-64	Ульяновск (8422)24-23-59
Воронеж (473)204-51-73	Магнитогорск (3519)55-03-13	Самара (846)206-03-16	Уфа (347)229-48-12
Екатеринбург (343)384-55-89	Москва (495)268-04-70	Санкт-Петербург (812)309-46-40	Хабаровск (4212)92-98-04
Иваново (4932)77-34-06	Мурманск (8152)59-64-93	Саратов (845)249-38-78	Челябинск (351)202-03-61
Ижевск (3412)26-03-58	Набережные Челны (8552)20-53-41	Севастополь (8692)22-31-93	Череповец (8202)49-02-64
Иркутск (395)279-98-46	Нижний Новгород (831)429-08-12	Симферополь (3652)67-13-56	Ярославль (4852)69-52-93
Россия (495)268-04-70	Киргизия (996)312-96-26-47	Казахстан (7172)727-132	