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# CABLE CATALOG

Your expert for high-quality power cables, medium voltage solutions, and solar cables. Reliable infrastructure for a green energy future.

ABOUT US

# KLZ Cables

Leading the way in cable infrastructure.

KLZ Cables is your specialist for power cables from 1 kV to 220 kV. We supply energy providers, wind and solar parks, and industry with VDE-certified cables – from low voltage through medium voltage to high voltage. With a Europe-wide network and decades of experience, we ensure reliable cable infrastructure.

THE DIRECTORS



**Michael Bodemer**  
MANAGING DIRECTOR

Michael Bodemer is the go-to guy when things get complicated—and let's face it, that's often the case with cable networks. With sharp insight and a knack for practical solutions, Michael is one of our key players. He's not just detail-oriented; he's a driving force—whether it's in planning, customer interactions, or securing the best cables for every project.

*„Challenges exist to be solved, not to debate how complicated they are.“*



**Klaus Mintel**  
MANAGING DIRECTOR

Klaus is the man with the experience, bringing perspective and calm to the table—even when cable chaos threatens to take over. With impressive industry knowledge and a network as solid as our cables, he ensures everything runs smoothly. Klaus isn't just a problem solver; he's a strategic thinker who knows how to get to the point with a touch of humor.

*„Sometimes all it takes is a clear head and a good cable to make the world a little better.“*

OUR VALUES

**01 Competence**

Decades of experience and Europe-wide know-how.

**02 Availability**

Always there for you – fast support.

**03 Solutions**

We find the best cable solution for your project.

**04 Reliability**

We deliver what we promise.

SERVICES & STRENGTHS

# What we do

We ensure that the electricity flows – with quality-tested cables. From low voltage up to high voltage.

## **Supply to energy suppliers, wind and solar parks, industry and trade**

We support your projects from 1 to 220 kV, from simple NYY to high-voltage cables with segment conductors and aluminum sheaths, with a particular focus on medium-voltage cables.

## **We deliver on time because we know the consequences for you**

Wind farm North Germany, coordinates XYZ, delivery Wednesday 2-4 p.

## **Expertise with depth**

Our team has decades of experience – far beyond the founding of KLZ in 2009.

## **Reliability that keeps your projects on track**

Accessibility, quick response in a fast-moving world.

## **Supply of cables whose quality is certified**

Cables are products that have to function 100%.

## **The cable alone is not the solution**

Stony ground? Perhaps a thicker outer sheath would be better? Damp ground? Can there be transverse watertight protection? We think for you and ask questions.

## **Tailor-made solutions for your project**

When things get more complex, we involve our technical consultants.

## **Sustainability without compromise**

We are convinced that we will leave the world better than we found it.

OUR HERITAGE

# A Legacy of Excellence in Every Connection

At KLZ, our expertise is built on generations of dedication to the energy industry. With decades of hands-on experience, we've grown alongside the evolution of cable technology, combining traditional craftsmanship with modern innovation. Each project we take on reflects a deep understanding of what it takes to create lasting, reliable energy solutions.

## Expertise

DECADES OF KNOWLEDGE

## Network

GLOBAL PARTNERSHIPS

## Certified Quality

VDE APPROVED & TRUSTED BY MAJOR ENERGY SUPPLIERS

## Full Spectrum

FROM 1KV TO 220KV SOLUTIONS



# Cable Catalog

## SOLARKABEL

H1Z2Z2-K .....	05
----------------	----

## NIEDERSPANNUNGSKABEL

N2X2Y .....	06
N2XY .....	12
NA2X2Y .....	13
NA2XY .....	19
NAY2Y .....	20
NAYCWY .....	21
NAYY .....	22
NY2Y .....	23
NYCWY .....	24
NY Y .....	25

## MITTELSPANNUNGSKABEL

N2XS(F)2Y .....	07
N2XS(FL)2Y .....	08
N2XS2Y .....	10
N2XSY .....	11
NA2XS(F)2Y .....	14
NA2XS(FL)2Y .....	15
NA2XS2Y .....	17
NA2XSY .....	18

## HOCHSPANNUNGSKABEL

N2XS(FL)2Y .....	09
NA2XS(FL)2Y .....	16



SOLARKABEL

# H1Z2Z2-K

APPLICATION

The H1Z2Z2-K cable is a highly flexible, halogen-free solar cable for modern photovoltaic systems. It meets the highest standards for safety, weather resistance, and electrical performance – for both indoor and outdoor use.

TECHNICAL DATA

PROPERTY	VALUE
Maximal operating conductor temperature (°C) [°C]	120
Maximal short-circuit temperature (°C) [°C]	+250 Max. 5 sec.
Minimal temperature for laying (°C) [°C]	-25
Operating temperature range (°C) [°C]	-40/+90
Rated voltage (kV) [kV]	AC: 1000/1000 V DC: 1500 V
Shape of conductor	RM
Test voltage (kV) [kV]	6,5 AC, 15 DC (5 min.)



**DETAILS**  
Product Page



**PDF**  
Datasheet



**NIEDERSpannungSKABEL**

# N2X2Y

**APPLICATION**

The N2X2Y cable is an XLPE-insulated low-voltage cable with an HDPE sheath, developed for fixed installations under demanding conditions. It stands out for its high thermal endurance and is ideally suited for use in power distribution systems with increased safety requirements.

**TECHNICAL DATA**

PROPERTY	VALUE
Bending radius (mm) [mm]	15/12xD
CPR class	Fca
Maximal operating conductor temperature (°C) [°C]	90
Maximal short-circuit temperature (°C) [°C]	250
Minimal storage temperature (°C) [°C]	-35
Minimal temperature for laying (°C) [°C]	-20
Operating temperature range (°C) [°C]	-35-+90
Rated voltage (kV) [kV]	0.6/1
Self-extinguishing of single cable	no
Test voltage (kV) [kV]	4



**DETAILS**  
Product Page



**PDF**  
Datasheet



MITTELSPANNUNGSKABEL

# N2XS(F)2Y

APPLICATION

The N2XS(F)2Y cable is a longitudinally watertight medium-voltage cable with a copper conductor, XLPE insulation, and a durable PE sheath. It combines high electrical safety with a rugged outer layer, making it ideal for demanding grid operation applications.

TECHNICAL DATA

PROPERTY	VALUE
CPR class	Fca
Flame retardant	no
Maximal operating conductor temperature (°C) [°C]	+90
Maximal short-circuit temperature (°C) [°C]	+250
Minimal storage temperature (°C) [°C]	-35
Minimal temperature for laying (°C) [°C]	-20
Minimum sheath thickness (mm) [mm]	2.1
Nominal insulation thickness (mm) [mm]	5.5
Operating temperature range (°C) [°C]	-35-+90
Rated voltage (kV) [kV]	12/20
Shape of conductor	RM
Test voltage (kV) [kV]	42



**DETAILS**  
Product Page



**PDF**  
Datasheet



MITTELSPANNUNGSKABEL

# N2XS(FL)2Y

APPLICATION

The N2XS(FL)2Y cable is a longitudinally watertight medium-voltage cable with a copper conductor, XLPE insulation, and a tightly bonded Al/PE sheath. It offers maximum operational safety for critical infrastructures and provides reliable protection against penetrating moisture.

TECHNICAL DATA

PROPERTY	VALUE
CPR class	Fca
Flame retardant	no
Maximal operating conductor temperature (°C) [°C]	+90
Maximal short-circuit temperature (°C) [°C]	+250
Minimal storage temperature (°C) [°C]	-35
Minimal temperature for laying (°C) [°C]	-20
Shape of conductor	RM



**DETAILS**  
Product Page



**PDF**  
Datasheet



## HOCHSPANNUNGSKABEL

# N2XS(FL)2Y

### APPLICATION

The N2XS(FL)2Y cable is a customizable high-voltage cable featuring a well-designed protection system against water ingress and high electrical load capacity. It complies with international standards and is ideally suited for demanding energy infrastructure projects.

### TECHNICAL DATA

PROPERTY	VALUE
CPR class	Fca
Flame retardant	no
Maximal operating conductor temperature (°C) [°C]	+90
Maximal short-circuit temperature (°C) [°C]	+250
Minimal storage temperature (°C) [°C]	-35
Minimal temperature for laying (°C) [°C]	-20
Shape of conductor	RM



**DETAILS**  
Product Page



**PDF**  
Datasheet



MITTELSPANNUNGSKABEL

# N2XS2Y

APPLICATION

The N2XS2Y cable is a robust medium-voltage cable with a copper conductor, XLPE insulation, and a durable PE sheath. It ensures reliable power transmission even under high mechanical stress and demanding environmental conditions.

TECHNICAL DATA

PROPERTY	VALUE
CPR class	Fca
Flame retardant	no
Maximal operating conductor temperature (°C) [°C]	+90
Maximal short-circuit temperature (°C) [°C]	+250
Minimal storage temperature (°C) [°C]	-35
Minimal temperature for laying (°C) [°C]	-20
Operating temperature range (°C) [°C]	-35-+90
Shape of conductor	RM



**DETAILS**  
Product Page



**PDF**  
Datasheet



MITTELSPANNUNGSKABEL

# N2XSY

APPLICATION

The N2XSY cable is a high-performance medium-voltage cable with a copper conductor, XLPE insulation, and a PVC sheath. It offers excellent electrical characteristics and can be installed safely and efficiently, even in complex routing situations.

TECHNICAL DATA

PROPERTY	VALUE
CPR class	Eca
Maximal operating conductor temperature (°C) [°C]	+90
Maximal short-circuit temperature (°C) [°C]	+250
Minimal storage temperature (°C) [°C]	-25
Minimal temperature for laying (°C) [°C]	-5
Operating temperature range (°C) [°C]	-35-+90
Shape of conductor	RM



**DETAILS**  
Product Page



**PDF**  
Datasheet



**NIEDERSpannungSKABEL**

# N2XY

**APPLICATION**

The N2XY cable is an unarmoured low-voltage cable for power and control applications up to 0.6/1 kV. It is suitable for fixed installation in buildings, outdoors, in humid environments, and for direct burial – wherever no special mechanical stresses occur.

**TECHNICAL DATA**

PROPERTY	VALUE
Bending radius (mm) [mm]	15/12xD
CPR class	Eca
Maximal operating conductor temperature (°C) [°C]	90
Maximal short-circuit temperature (°C) [°C]	250
Minimal storage temperature (°C) [°C]	-35
Minimal temperature for laying (°C) [°C]	-5
Operating temperature range (°C) [°C]	-35-+90
Rated voltage (kV) [kV]	0.6/1
Self-extinguishing of single cable	IEC 60332-1-2
Test voltage (kV) [kV]	4



**DETAILS**  
Product Page



**PDF**  
Datasheet



**NIEDERSpannungSKABEL**

# NA2X2Y

**APPLICATION**

The NA2X2Y cable is a durable low-voltage cable with an aluminium conductor, PE insulation, and an HDPE sheath. It has been developed for fixed installations under increased mechanical stress and is particularly suitable for demanding industrial and energy infrastructure applications.

**TECHNICAL DATA**

PROPERTY	VALUE
Bending radius (mm) [mm]	15/12xD
CPR class	Fca
Maximal operating conductor temperature (°C) [°C]	90
Maximal short-circuit temperature (°C) [°C]	250
Minimal storage temperature (°C) [°C]	-35
Minimal temperature for laying (°C) [°C]	-20
Operating temperature range (°C) [°C]	-35-+90
Rated voltage (kV) [kV]	0.6/1
Self-extinguishing of single cable	no
Test voltage (kV) [kV]	4



**DETAILS**  
Product Page



**PDF**  
Datasheet



MITTELSPANNUNGSKABEL

# NA2XS(F)2Y

APPLICATION

The NA2XS(F)2Y cable is a longitudinally watertight medium-voltage cable with an aluminium conductor, XLPE insulation, and a durable PE sheath. It is designed for energy-efficient and safe installation in the ground and critical network areas.

TECHNICAL DATA

PROPERTY	VALUE
CPR class	Fca
Flame retardant	no
Maximal operating conductor temperature (°C) [°C]	+90
Maximal short-circuit temperature (°C) [°C]	+250
Minimal storage temperature (°C) [°C]	-35
Minimal temperature for laying (°C) [°C]	-20
Operating temperature range (°C) [°C]	-35-+90
Shape of conductor	RM



**DETAILS**  
Product Page



**PDF**  
Datasheet



MITTELSPANNUNGSKABEL

# NA2XS(FL)2Y

APPLICATION

The NA2XS(FL)2Y cable is a longitudinally watertight medium-voltage cable with an aluminium conductor, XLPE insulation, and a combined Al/PE sheath. It has been specifically developed for power supply networks that demand high mechanical strength and reliable protection against water ingress.

TECHNICAL DATA

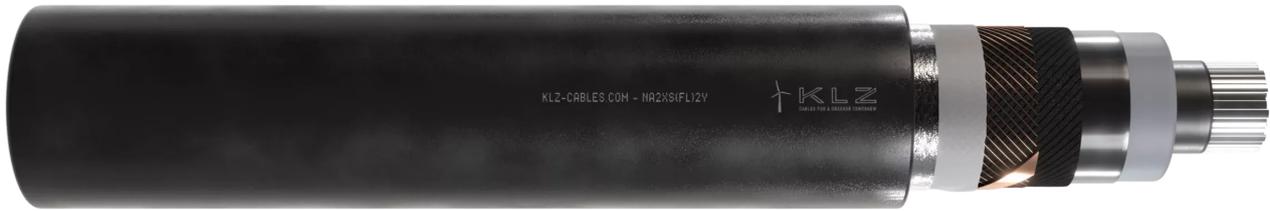
PROPERTY	VALUE
CPR class	Fca
Flame retardant	no
Maximal operating conductor temperature (°C) [°C]	+90
Maximal short-circuit temperature (°C) [°C]	+250
Minimal storage temperature (°C) [°C]	-35
Minimal temperature for laying (°C) [°C]	-20
Operating temperature range (°C) [°C]	-35-+90
Shape of conductor	RM



**DETAILS**  
Product Page



**PDF**  
Datasheet



HOCHSPANNUNGSKABEL

# NA2XS(FL)2Y

APPLICATION

The NA2XS(FL)2Y cable is a high-performance high-voltage cable with an aluminum conductor, XLPE insulation, and a waterproof PE sheath. It offers high operational reliability and is specifically designed for underground and demanding route installations.

TECHNICAL DATA

PROPERTY	VALUE
CPR class	Fca
Flame retardant	no
Maximal operating conductor temperature (°C) [°C]	+90
Maximal short-circuit temperature (°C) [°C]	+250
Minimal storage temperature (°C) [°C]	-35
Minimal temperature for laying (°C) [°C]	-20
Operating temperature range (°C) [°C]	-35-+90
Shape of conductor	RM



**DETAILS**  
Product Page



**PDF**  
Datasheet



MITTELSPANNUNGSKABEL

# NA2XS2Y

APPLICATION

The NA2XS2Y cable is a high-performance medium-voltage cable with an aluminium conductor, XLPE insulation, and a robust PE sheath. It is perfectly suited for underground applications and impresses with its thermal load capacity, mechanical durability, and partial discharge-free design.

TECHNICAL DATA

PROPERTY	VALUE
CPR class	Fca
Flame retardant	no
Maximal operating conductor temperature (°C) [°C]	+90
Maximal short-circuit temperature (°C) [°C]	+250
Minimal storage temperature (°C) [°C]	-35
Minimal temperature for laying (°C) [°C]	-20
Operating temperature range (°C) [°C]	-35-+90
Shape of conductor	RM



**DETAILS**  
Product Page



**PDF**  
Datasheet



MITTELSPANNUNGSKABEL

# NA2XSY

APPLICATION

The NA2XSY cable is a medium-voltage cable with aluminium conductor, XLPE insulation, and copper shielding, suitable for underground installation. It is designed for demanding power distribution tasks and stands out for its high operational reliability, excellent installation properties, and thermal resistance up to 90°C.

TECHNICAL DATA

PROPERTY	VALUE
CPR class	Eca
Maximal operating conductor temperature (°C) [°C]	+90
Maximal short-circuit temperature (°C) [°C]	+250
Minimal storage temperature (°C) [°C]	-25
Minimal temperature for laying (°C) [°C]	-5
Operating temperature range (°C) [°C]	-35-+90
Shape of conductor	RM



**DETAILS**  
Product Page



**PDF**  
Datasheet



**NIEDERSpannungSKABEL**

# NA2XY

**APPLICATION**

The NA2XY cable is a robust low-voltage cable with an aluminium conductor, PE insulation, and a PVC sheath. It is designed for fixed installation under increased mechanical stress and is particularly suitable for power distribution in industrial and public supply networks.

**TECHNICAL DATA**

PROPERTY	VALUE
Bending radius (mm) [mm]	15/12xD
CPR class	Eca
Maximal operating conductor temperature (°C) [°C]	90
Maximal short-circuit temperature (°C) [°C]	250
Minimal storage temperature (°C) [°C]	-35
Minimal temperature for laying (°C) [°C]	-5
Operating temperature range (°C) [°C]	-35-+90
Rated voltage (kV) [kV]	0.6/1
Self-extinguishing of single cable	IEC 60332-1-2
Test voltage (kV) [kV]	4



**DETAILS**  
Product Page



**PDF**  
Datasheet



NIEDERSpannungSKABEL

# NAY2Y

APPLICATION

The NAY2Y cable is an especially robust low-voltage cable with an aluminium conductor and an HDPE sheath, specifically developed for installations with high mechanical stress. It stands out for its durability in demanding environments – whether in industrial facilities, transformer stations, or local networks.

TECHNICAL DATA

PROPERTY	VALUE
Bending radius (mm) [mm]	15/12xD
CPR class	Fca
Maximal operating conductor temperature (°C) [°C]	70
Maximal short-circuit temperature (°C) [°C]	300 mm <sup>2</sup> : +140
Minimal storage temperature (°C) [°C]	-35
Minimal temperature for laying (°C) [°C]	-5
Operating temperature range (°C) [°C]	-35-+70
Rated voltage (kV) [kV]	0.6/1
Self-extinguishing of single cable	no
Test voltage (kV) [kV]	4



**DETAILS**  
Product Page



**PDF**  
Datasheet



**NIEDERSpannungSKABEL**

# NAYCWY

**APPLICATION**

The NAYCWY cable is a shielded low-voltage cable with an aluminium conductor and a concentric copper conductor. It has been specifically developed for applications requiring additional protection against contact voltages – such as in industrial networks, local grids, or power distribution systems.

**TECHNICAL DATA**

PROPERTY	VALUE
Bending radius (mm) [mm]	15/12xD
CPR class	Eca
Maximal operating conductor temperature (°C) [°C]	70
Maximal short-circuit temperature (°C) [°C]	160
Minimal storage temperature (°C) [°C]	-35
Minimal temperature for laying (°C) [°C]	-5
Operating temperature range (°C) [°C]	-35-+70
Rated voltage (kV) [kV]	0.6/1
Self-extinguishing of single cable	IEC 60332-1-2
Test voltage (kV) [kV]	4



**DETAILS**  
Product Page



**PDF**  
Datasheet



**NIEDERSpannungSKABEL**

# NAYY

**APPLICATION**

The NAYY cable is a versatile low-voltage cable with an aluminium conductor, designed for fixed installation in buildings, underground, in water, or outdoors. It provides a cost-effective solution for power distribution under normal mechanical requirements – ideal for local networks, industrial facilities, and power supply systems.

**TECHNICAL DATA**

PROPERTY	VALUE
Bending radius (mm) [mm]	15/12xD
CPR class	Eca
Maximal operating conductor temperature (°C) [°C]	70
Maximal short-circuit temperature (°C) [°C]	300 mm <sup>2</sup> : +140
Minimal storage temperature (°C) [°C]	-35
Minimal temperature for laying (°C) [°C]	-5
Operating temperature range (°C) [°C]	-35-+70
Rated voltage (kV) [kV]	0.6/1
Self-extinguishing of single cable	IEC 60332-1-2
Test voltage (kV) [kV]	4



**DETAILS**  
Product Page



**PDF**  
Datasheet



**NIEDERSpannungSKABEL**

# NY2Y

**APPLICATION**

The NY2Y is an especially robust low-voltage cable for fixed installation under high mechanical demands – whether underground, in water, or in industrial environments. Thanks to its material combination, it is perfectly suited for a wide range of application conditions.

**TECHNICAL DATA**

PROPERTY	VALUE
Bending radius (mm) [mm]	15/12xD
CPR class	Fca
Maximal operating conductor temperature (°C) [°C]	70
Maximal short-circuit temperature (°C) [°C]	300 mm <sup>2</sup> : +140
Minimal storage temperature (°C) [°C]	-35
Minimal temperature for laying (°C) [°C]	-5
Operating temperature range (°C) [°C]	-35-+70
Rated voltage (kV) [kV]	0.6/1
Self-extinguishing of single cable	no
Test voltage (kV) [kV]	4



**DETAILS**  
Product Page



**PDF**  
Datasheet



**NIEDERSpannungSKABEL**

# NYCWY

**APPLICATION**

NYCWY cables are robust low-voltage cables with a concentric conductor, suitable for power distribution in buildings, industrial facilities, and underground installations. Thanks to their PVC insulation and sheath, they are mechanically durable, moisture-resistant, and versatile in use – even in concrete or water.

**TECHNICAL DATA**

PROPERTY	VALUE
Bending radius (mm) [mm]	15/12xD
CPR class	Eca
Maximal operating conductor temperature (°C) [°C]	70
Maximal short-circuit temperature (°C) [°C]	160
Minimal storage temperature (°C) [°C]	-35
Minimal temperature for laying (°C) [°C]	-5
Operating temperature range (°C) [°C]	-35-+70
Rated voltage (kV) [kV]	0.6/1
Self-extinguishing of single cable	IEC 60332-1-2
Test voltage (kV) [kV]	4



**DETAILS**  
Product Page



**PDF**  
Datasheet



**NIEDERSpannungSKABEL**

# NYY

**APPLICATION**

The NYY is a universally applicable low-voltage cable for fixed installation in buildings, outdoors, underground, or even in water – wherever no special mechanical stresses are to be expected.

**TECHNICAL DATA**

PROPERTY	VALUE
<b>Bending radius (mm) [mm]</b>	15/12xD
<b>CPR class</b>	Eca
<b>Maximal operating conductor temperature (°C) [°C]</b>	70
<b>Maximal short-circuit temperature (°C) [°C]</b>	300 mm <sup>2</sup> : +140
<b>Minimal storage temperature (°C) [°C]</b>	-35
<b>Minimal temperature for laying (°C) [°C]</b>	-5
<b>Operating temperature range (°C) [°C]</b>	-35-+70
<b>Rated voltage (kV) [kV]</b>	0.6/1
<b>Self-extinguishing of single cable</b>	IEC 60332-1-2
<b>Test voltage (kV) [kV]</b>	4



**DETAILS**  
Product Page



**PDF**  
Datasheet



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