



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.

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.

Paired with historic illustrations from the industry's early days, our story is a reminder of how far cables have come – and how much care has always gone into connecting the world.

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.

OUR SERVICES

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.m., no unloading option. Yes, we know that. We organize the logistics with a back office team that has up to 20 years of cable experience.

Supply of cables whose quality is certified

Cables are products that have to function 100%. For decades, often 80 to 100 years. Our cables are not only approved by VDE. The most well-known energy suppliers trust us.

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.

OUR STORY

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.

Paired with historic illustrations from the industry's early days, our story is a reminder of how far cables have come – and how much care has always gone into connecting the world.

Expertise

DECADES OF KNOWLEDGE

Network

GLOBAL PARTNERSHIPS





EXPERIENCE

Decades of experience rooted in cable history

At KLZ, cables run in our veins. Klaus began his journey at the renowned Felten & Guillaume, following in the footsteps of his parents, who dedicated their lives to the same iconic company. For Klaus, this isn't just work – it's a legacy built on craftsmanship, innovation, and pride.

We honor this history with original illustrations from Felten & Guillaume's era, once used as postcards. These images remind us of the generations who wired the world together – a tradition we proudly continue today.

Certified Quality

VDE APPROVED & TRUSTED BY MAJOR ENERGY SUPPLIERS

Full Spectrum

FROM 1KV TO 220KV SOLUTIONS

WHY KLZ

Why choose us

Experience prevents many mistakes, but we learn something new every day

Expertise with depth

Our team has decades of experience – far beyond the founding of KLZ in 2009. The entire team has over 100 years of cable experience, gained in a wide variety of plants, from low voltage to medium voltage to high voltage. We know what cables smell like, what the colleague at the shielding machine is responsible for how testing is carried out.

Reliability that keeps your projects on track

Accessibility, quick response in a fast-moving world. Do you still have questions after 5 p.m.? Or at the weekend? We are always there. And that is how we have developed our partners so that as a team we can realize what you have paid for. And if something does not go well, no one hides.

Tailor-made solutions for your project

When things get more complex, we involve our technical consultants. That's where you need experts who haven't just started their careers. You need people who read and understand standards and have sometimes been involved. We have them, and with their and our experience we differentiate ourselves from simple cable trading

Sustainability without compromise

We are convinced that we will leave the world better than we found it. With initiatives such as our drum return service and a clear focus on recycling, we ensure that every connection is as environmentally friendly as possible. Each of our partners has the appropriate certificates, which are increasingly expected by all customers.



THE DIRECTORS

Meet the team behind KLZ

At KLZ, our team is the power behind the cables. From seasoned experts like Michael and Klaus to a dedicated group of planners, logistics specialists, and customer support professionals, every member plays a vital role. Together, we combine decades of experience, innovative thinking, and a shared commitment to delivering reliable energy solutions.

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

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.

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.

CORE PRINCIPLES

Our manifesto

Our core principles guide every decision we make and every cable we deliver.

Competence

Decades of experience and Europe-wide know-how combined with commitment and new ideas. Production partners up to 525 kV and the most modern systems, test laboratories and ready to invest in the future.

Solutions

Solutions require a lot of questions. We ask them. You, the manufacturer and ourselves. If you don't ask questions, you'll pay for it later. We need to prevent that.

Open to new things

We listen. From the inquiry, through the offer, to delivery. What can be done better needs to be discussed. If you don't adapt your processes, you'll no longer be on the highway at some point. Instead, you'll end up in a dead end.

Availability

Always there for you - no waiting, no delays, just fast and reliable support. Maybe it's because we love what we do.

Logistics

Monitoring production, regular exchanges, freight tracking, customs clearance, reloading, paying attention to the delivery time tunnel, invoices, delivery notes - our everyday life. We have the right team for it.

Reliability

We deliver what we promise – every time, without fail.

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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.)
Voltage	AC: 1000 / 1000 V DC: 1500 V



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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
Voltage	0.6/1 kV



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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
Voltage	12/20 kV



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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
Voltage	6/10 kV
Voltage	12/20 kV
Voltage	18/30 kV



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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
Voltage	6/10 kV
Voltage	12/20 kV
Voltage	18/30 kV



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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
Voltage	6/10 kV
Voltage	12/20 kV
Voltage	18/30 kV



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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
Voltage	6/10 kV
Voltage	12/20 kV
Voltage	18/30 kV



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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
Voltage	0.6/1 kV



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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
Voltage	0.6/1 kV



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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
Voltage	6/10 kV
Voltage	12/20 kV
Voltage	18/30 kV



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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
Voltage	6/10 kV
Voltage	12/20 kV
Voltage	18/30 kV



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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
Voltage	6/10 kV
Voltage	12/20 kV
Voltage	18/30 kV



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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
Voltage	6/10 kV
Voltage	12/20 kV
Voltage	18/30 kV



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MITTELSPANNUNGSKABEL

NA2XS1Y

APPLICATION

The NA2XS1Y 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
Voltage	6/10 kV
Voltage	12/20 kV
Voltage	18/30 kV



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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
Voltage	0.6/1 kV



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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 ² : +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
Voltage	0.6/1 kV



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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
Voltage	0.6/1 kV



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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 ² : +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
Voltage	0.6/1 kV



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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 ² : +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
Voltage	0.6/1 kV



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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
Voltage	0.6/1 kV



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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
Bending radius (mm) [mm]	15/12xD
CPR class	Eca
Maximal operating conductor temperature (°C) [°C]	70
Maximal short-circuit temperature (°C) [°C]	300 mm ² : +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
Voltage	0.6/1 kV



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