



EVENT
TECHNOLOGY

LIVE ON STAGE –
OUR CABLES!

EN



■ Company

Since its foundation in 1926, MUCKENHAUPT & NUSSELT has concentrated on developing and production of cables.

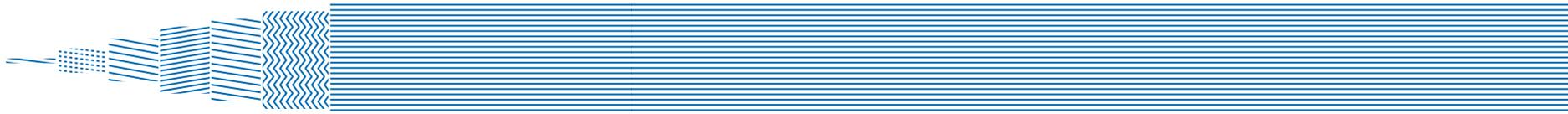
We are a special cable production company with around 100 employees, developing tailored solutions for our customers as a development partner and constantly putting innovations into practise. This applies both for the materials we use and the functions of our cables.

For each project, our work begins with accurately determining the customer's requirements and the individual application. On this basis, we are able to select or develop cables that do not compromise on functionality, quality and lifespan.

■ Areas of application: very varied

Our cables can be used for many applications and in a wide range of industries. Whether it's about long-lasting flexibility, specific wear resistance, industry-specific certifications or individual combinations of data and energy cables: We develop and produce exactly the cables that you need – for example, for the following industries:

- Agricultural technology
- Alpine technology
- Automation
- Crane/lifting technology
- Elevators/conveyor technology
- Event technology
- Forestry
- Lighting industry
- Robotics



■ Production: flexible and fast

Our manufacture of cables in Wuppertal is exceptionally flexible. A diverse plant, based on short set-up times, enables quick production of customer-specific cables in the desired quantities.

We can produce both sample quantities (incl. less than 500 m) and large orders with short supply times for you.

■ Quality and sustainability

MUCKENHAUPT & NUSSELT works efficiently and guarantees high product quality. The cables are tested with required loaded in the company's own laboratory and test department.

As well as quality in all processes, we pay attention to ecologically contractual production. This is documented by the certifications in accordance with DIN EN ISO 9001 and DIN EN ISO 14001.

■ MUNFLEX® – a brand that stands for high-quality cables

For many projects, we can depend on the standard cables in our comprehensive MUNFLEX® range – and on the experience of more than 45,000 constructions. The cables from our brand are available in numerous varieties, incl. control and data cables and special cables (MUNFLEX®-Special).

■ Event technology: Extreme requirements for cables

Dramas and surprises are definitely desirable – on stage. However, the technology in the background has to be reliable and defect-free, entirely without drama, functioning, so events such as rock concerts are just as perfect for the spectator as the classical concert, the podium discussion or public viewing. This is a pivotal principle for any type of event technology.

It is not particularly easy to realise these requirements. One important prerequisite is the application of fail-safe cables and conduits. For this purpose, MUCKENHAUPT & NUSSELT provides the event industry with customised cables and cable systems entirely developed for this area of deployment.

■ At the centre: fail-safe operation under adverse conditions

The special requirements for cables in the event technology are due to the operating conditions, which are extremely diverse. The cables are used both inside and outside at different temperatures as well as in the rain. They are often frequently installed and de-installed. This is done under pressure and the cables are by no means treated gently. It is also characteristic for the event technology that the cables – contrary to the automation technology or robotics, for example, with similarly high requirements – are not subject to specific conditions. Anything can happen to them, any exposure is possible. In short: they literally lead an eventful and diversified life – as all-rounders. For this reason, robustness is a central requirement.

■ A broad application spectrum

Concerts, open-air events, trade fairs, corporate events, entertainment etc.: the scope of application of the cables is as diverse as the events and their functions. Next to the energy supply, AV technology (audio-vision: sound, light, video) plays a pivotal role. Numerous electrical and, if applicable, also hydraulic and pneumatic equipment has to be supplied with energy, and the safety systems place particularly high demands on the availability of all components, including cables and connection elements.

■ Cables for “special effects”

Depending on the event, this may also require the deployment of cable systems for special effects, such as pyro and laser technology. They often have to reach high transmission speeds in order to allow for extremely precise synchronisation. Very high bit rate is paramount in the transmission of moving images (video, LED walls etc.). Signal speed (Delay) is one significant cable standard in this instance.

■ Important: Flexibility

Regardless of the specific application, our cables for event technology are principally extremely robust and designed three-dimensionally movable. They can be rolled up, twisted and flexed. High UV and temperature resistance of -40 to +70° C create the prerequisite for permanent outdoor application.

The cables are suitable for quickly changing temperature profiles as well as rough installation and transport conditions. They are also compatible with the connection systems of various manufacturers.

■ Robust and portable

We produce the following conduit types for deployment in event technology:

- DMX cables
- Multi-core cables
- Load multi-core cables
- Hybrid cables, e.g. with fibreglass conduits, coax conduits, plastic fibres, ethernet conduits, pneumatic hoses, PE, PA hoses etc.
- Hybrid cables with BUS elements, e.g. Cat 5e
- Application-specific cable solutions
- Standard cables

Upon request, we also supply the cables with barcode labelling, print (also with company logo) and length specification. The industry-standard plug-in connections are produced by renowned manufacturers.

They are characterised by ergonomic operation, low weight and manipulation-proof activation. The user can choose between black and grey plugs.

■ You have the choice – we supply the solution

Whatever cable you need for the event technology – we find the optimal solution for you. We are just as flexible in the lengths as in the selection of conduits, separators, carrying elements and shields. Also the sheath materials offer extensive choices, which include halogen-free plastics and special mixtures for low temperatures.

If our extensive construction assortment, which comprises approx. 45,000 different types, does not contain the right solution, we develop and produce the suitable solution for you - even if you require the cables quickly and in a limited quantity. This flexibility is one of the traditional strengths of MUCKENHAUPT & NUSSELT.



Customised solutions for event technology, e.g. standard multi-core cables.

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