Metzner



PERFECTION IN EVERY RESPECT

HIGH-PERFORMANCE WIRE PROCESSING MACHINES FOR BEST RESULTS

WE DELIVER CUSTOMIZED AUTOMATION SOLUTIONS FOR MAXIMUM EFFICIENCY

Metzner uses state-of-the-art technologies to efficiently process a particularly wide range of cables. Our machine portfolio impresses with its **exceptional versatility** and processes **cable cross-sections ranging from the finest 0.14 mm² up to massive 400 mm² with the utmost precision and care.**

Our machines enable the exact and effortless processing of cable diameters **between 0.5 mm and 40 mm – including all intermediate sizes.** This unique flexibility optimizes your production processes and guarantees maximum efficiency and cost-effectiveness when processing a wide variety of cable types.

Metzner cable processing machines offer maximum flexibility and can be seamlessly expanded into fully automated production lines, increasing the degree of automation and saving additional personnel costs.

Our **feeding and unwinding systems** ensure the gentle transport of the cables to the cutting and stripping machines. Further processing is then carried out automatically by cable feeders or winding machines – without any manual intervention.

We also provide a wide range of marking technologies for individual customer requirements, including inkjet printing, laser printing, thermal transfer printing as well as labeling and hot stamping systems. These solutions enable **precise cable labeling,** according to your specific requirements.

With the combined product range of Metzner, Ramatech, and Ulmer, we offer you a comprehensive and **powerful range of peripheral devices** specifically tailored tto the requirements of efficient and cost-saving wire processing.

In addition, Metzner is the **leading supplier in the field of wire processing for customized special systems according to specifications or tailormade machine modifications** to meet even the most demanding requirements of our customers.



AM 1000

BASIC MODEL FOR CABLES UP TO 10 MM Ø AND UP TO 6 MM² CROSS-SECTION



It is compact, but fully equipped for professional production requirements, including versatile processing options, interfaces for peripheral devices, and standard software.

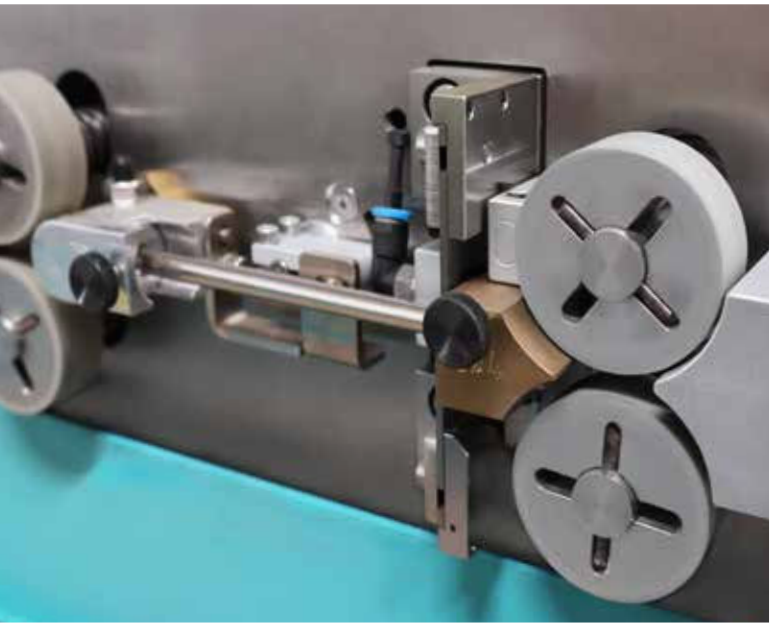
Small and yet really big

The AM 1000 cutting and stripping machine impresses with its compact dimensions and extensive processing options. With its robust, powerful cutting module, it successfully processes cables up to 10 mm in diameter and an 6 mm² cross-section (up to 10 mm² depending on the material). With feed rollers made of steel, rubber or a corundum coating, it adapts to a wide range of insulation materials and processing requirements.

The AM 1000 offers interfaces for controlling unwinding and feeding devices, as well as printing devices and can be quickly expanded into a complete production line.

Unique software features

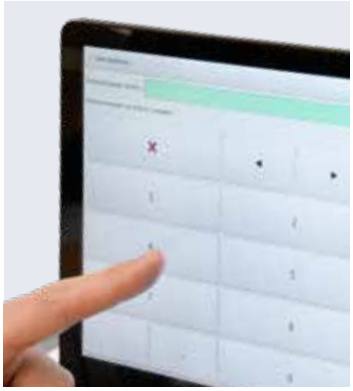
For safe and convenient operation, the AM 1000 is equipped with a 12.7" touchscreen and intuitive software that provides a graphical display of the settings. It supports the standard processing of cable lists, the integrated control of printing devices and has an MES interface as well as data import/export in Excel format.



FEATURES & BENEFITS

- **Performance that impresses**
  – for cable diameter and cable cross-section
- **Outstanding user-friendliness**
  – the large screen enables convenient and simple operation
- **Complete software solution**
  – no need for additional software packages or interface modules
- **Quick, tool-free changeover**
  of cable guides and feed rollers
- **Flexibly expandable** to an automated production line





MODEL	AM 1000
Cable outer diameter	0.5 – 10 mm | 0.02" – 0.39"
Cable length (min.max.)	35 mm – 999 m | 1.38" – 3,278'
Cable cross-section (stranded conductor)	0.14 mm² – 6 mm² | 26 AWG – 10 AWG
Feeding speed max. 1	220 m/min | 722 ft/min
Pull–off length 1st side 2 / 2nd side 3	40–120 mm | 0–30 mm / 1.57"– 4.72"/ 0" – 1.18"
Electrical connection	230 V, 50/60 Hz
Compressed air connection	6 bar | 87 PSI
Dimensions (L x W x H) [3]	390 x 600 x 370 mm | 15" x 24" x 15"

[1] infinitely adjustable | [2] reduced speed due to extreme precision | [3] without screen

AM 2000 SERIES

VERSATILE AND POWERFUL FOR CABLES UP TO 15 MM Ø AND 35 MM² CROSS-SECTION



The Metzner AM 2800 comes standard with a dual cutting head and a spring-loaded tape feed for automatic compensation of material fluctuations.



The Metzner AM 2850 combines all the advantages of the AM 2800 with additional processing options from a rotary module for coaxial cable and multilayer processing.





The Metzner AM 2800 SAW with its integrated sawing module ensures precise cutting to length of Sucoform, Sucoflex, or POF cables and, thanks to the saw cut, delivers perfect, right-angled ends without reworking. The Metzner AM 2850 SAW combines all the features of the AM 2800 SAW and adds a rotary module, which provides even greater flexibility in cable processing.

MODEL	AM 2800 / AM 2800 SAW / AM 2900	AM 2850 / AM 2850 SAW / AM 2950
Cable outer diameter	0.5 mm – 15 mm | 0.02" – 0.59"	
Cable length (min. – max.)	20 mm – 200 m (SAW max. 100 m) | 0.79"– 656"	
Cable cross–section – stranded conductor	0.5 mm² – 35 mm² | 21 AWG – 2 AWG	
Feeding speed max. 1	180 m/min | 591 ft/min	
Pull–off length 1st side 2/ 2nd side 3	0 mm – 180 mm | 0" – 7" / 0 mm – 125 mm | 0" – 5"	
Electrical connection	230 V, 50/60 Hz, 2 A	
Compressed air connection	6 bar | 87 PSI	
Abmessungen (L x B x H) [3]	710 mm x 920 mm x 350 mm	960 mm x 920 mm x 350 mm

[1] frei und stufenlos einstellbar | [2] bei reduzierter Geschwindigkeit für höchste Präzision | [3] ohne Bildschirm

HIGHEST PRECISION IN DETAIL – CUTTING TO LENGTH, STRIPPING, SLITTING IN ONE STEP, EXPANDED WITH SAW AND MULTIPLE BLADE MODULE.



The Metzner AM 2900 expands the AM 2000 series with a multiple knife module, enabling versatile machining with up to three pairs of knives in an automatic process.



The Metzner AM 2950 combines the flexible multiple knife module of the AM 2900 with a rotary module, offering maximum precision and even greater versatility in cable processing.



Even more power and flexibility

The double-blade cutting head of the AM 2800 and AM 2850 allows a wide range of processing options that are not possible with just one pair of blades; e.g., cutting to length, stripping, and longitudinal slitting in a single operation, or the combination of V-blades for cutting to length and radius blades for a precise all-around cut into the insulation.

The SAW models feature an integrated sawing module for precise, crush-free cuts, while the AM 2900 and AM 2950 with multiple blade modules offer maximum flexibility and shorter setup times.

Rotary module and software expertise

The AM 2850 and AM 2950 variants expand the range with a rotary module for processing complex, multi-layer cables. The software follows the "all-inclusive principle" – prepared as standard for peripheral devices, cable lists, and MES connections.



FEATURES & BENEFITS

- **Double-blade cutting head** ensures efficient cable processing without additional cost
- **Multi-blade module** for shorter setup times and extended processing options (AM 2900/ AM 2950)
- **Rotary module** for precise processing of multi-layered and complex cables (AM 2850/ AM 2950)
- **Saw module** provides smooth, crush-free cuts (AM 2800/ AM 2850 SAW)
- **Magnetic guide set** allows fast, tool-free replacement
- **Belt feed modules** with high pulling force and smooth power transmission
- **Spring-loaded belt feeds** for precise compensation of wear and material variations

AM 3000 SERIES

BEST CHOICE FOR CABLES UP TO MAX. 20 MM Ø AND 70 MM² CROSS-SECTION



With its standard double-blade cutting system, the Metzner AM 3800 offers numerous processing options and is the ideal solution for demanding and complex cable processing.



Cable processing that sets new standards. The Metzner AM 3850 combines the strengths of the AM 3800 with a rotary cutting head, providing additional versatility and multi-stage cable processing.

The machines in this series offer the ideal solution for demanding cable applications by combining advanced technology with high flexibility and performance.

Double blade cutting system as standard

All models in the Metzner AM 3000 series are equipped with our patented double-blade cutting system as standard, which opens up additional processing options.

The combination of two pairs of knives, such as a V-knife and radius knife or V-knife, radius knife, and slitting knife, offers processing options that cannot be realized with a conventional single cutter head.

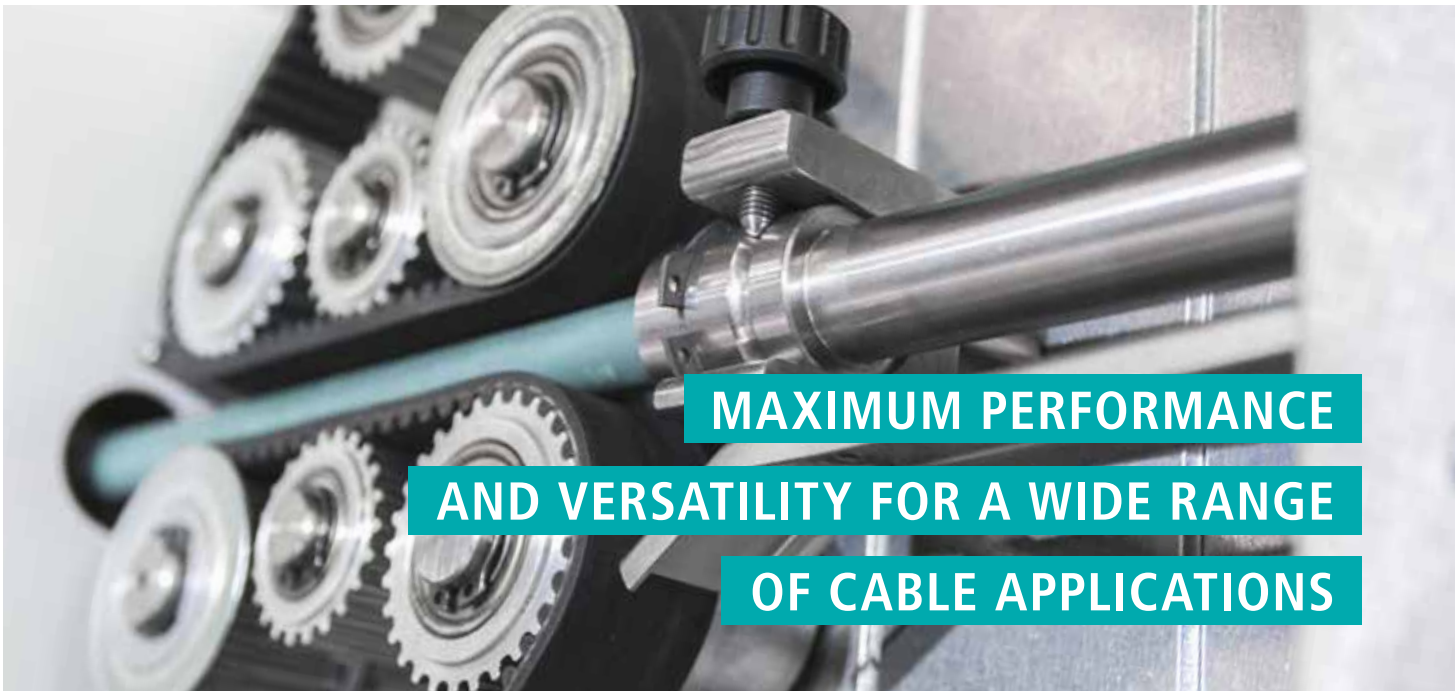
Maximum performance when cutting to length and stripping – robust and durable

The Metzner AM 3000 machines are the most powerful in their category and deliver an impressive cutting force for cable cross-sections up to 70 mm².

Thanks to the extra-long belt drives, the motor power is transferred efficiently and gently to the cable, ensuring precise cuts. When designing the machines, our engineers deliberately made key components more robust to ensure reliability and a long service life.







MAXIMUM PERFORMANCE AND VERSATILITY FOR A WIDE RANGE OF CABLE APPLICATIONS



FEATURES & BENEFITS

- **Standard double-blade cutting system** for more processing options
- **Power for 70 mm²** – no additional options available at extra cost
- **Tool-free change** of knives and guides
- Prepared for all types of **peripheral devices for pre- and postprocessing,** turning a single machine into an automated line
- Prepared for **MES or IT network integration as standard**
- **Interface preparation** for inkjet, laser, and label printers

MODEL	AM 3800	AM 3850
Cable outer diameter	0.5 mm – 20 mm | 0.02" – 0.79"	
Cable length (min. – max.)	20 mm – 999 m | 0.79" – 3,278"	
Cable cross-section – stranded conductor	0.5 mm² – 70 mm² | 21 AWG – 00 AWG	
Feeding speed max. 1	180 m/min | 591 ft/min	
Pull-off length 1st side 2 / 2nd side 3	210 mm | 8" / 110 mm | 4"	
Electrical connection	230 V, 50/60 Hz, 2 A	
Compressed air connection	6 bar | 87 PSI	
Dimensions (L x W x H) 3	691 mm x 880 mm x 490 mm | 27" x 34" x 22"	928 mm x 880 mm x 490 mm | 37" x 34" x 22"

[1] infinitely adjustable | [2] reduced speed due to extreme precision | [3] without screen

AM 5000 SERIES

POWER PACKS FOR CABLES UP TO MAX. 35 MM Ø AND 185 MM² CROSS-SECTION



The Metzner AM 5800 offers outstanding repeatability with its extra-long conveyor belts. Its double-blade cutting system allows several processing steps to be carried out simultaneously.



The Metzner AM 5850 combines all the advantages of the AM 5800 with a rotary cutting module for extended capabilities in multi-stage cable processing.

The Metzner AM 5000 series is specially designed for single and multi-core, as well as shielded cables with a diameter of up to 35 mm and a cross-section of up to 185 mm². These models offer unique advantages:

Outstanding cutting force

The machines in the AM 5000 series offer an impressive cutting force of 185 mm² as standard – without any additional 'booster' unit. Even when processing smaller cross-sections, you can be sure that the machine is ideally equipped for larger challenges and provides sufficient cutting force at all times.

Double-blade cutting system

All models in the AM 5000 series are equipped with our double-blade cutting system as standard. This ensures maximum versatility and efficiency in a continuous, automated workflow.

Extra long, smooth-running belt feed unit

The extra-long belt feed of the AM 5000 series ensures that the machine's immense force is evenly distributed across the cable. This reliably prevents the cable from being compressed, even when the cable is pulled out strongly.







PARTICULARLY POWERFUL, WITH PRECISE REPEATABILITY AND MULTI-STEP PROCESSING IN A SINGLE OPERATION



FEATURES & BENEFITS

- **Outstanding power** for 185 mm² cross-sections; a power 'booster' is not necessary
- **Precise multi-stage stripping and more flexibility** thanks to the standard double-blade cutting system
- **Extensive software equipment installed as standard,** no additional packages required
- **Avoid waste during inkjet printing** by positioning of 1 or 2 printer heads directly before or after the cutting head
- **Integrated base for stability and storage:** The standard white cabinet enhances stability and provides protected space for tools, guides, and accessories

MODEL	AM 5800	AM 5850
Cable outer diameter	2.5 mm – 35 mm | 0.1" – 1.38"	
Cable length (min. – max.)	20 mm – 999 m | 0.79" – 3,278"	
Cable cross-section – stranded conductor	1.5 mm² – 185 mm² | 16 AWG – 350 MCM	
Feeding speed max. 1	180 m/min | 591 ft/min	
Pull-off length 1st side 2 || 2nd side 3	400 mm | 15" / 260 mm | 10"	
Electrical connection	3~400 V, 50/60 Hz, 2.6 A	
Compressed air connection	–	6 bar | 87 PSI
Dimensions (L x W x H) 3	1,010 mm x 970 mm x 1,685 mm | 36" x 14" x 66"	1,376 mm x 970 mm x 1,685 mm | 36" x 14" x 66"

[1] infinitely adjustable | [2] reduced speed due to extreme precision | [3] without screen

SPEEDY

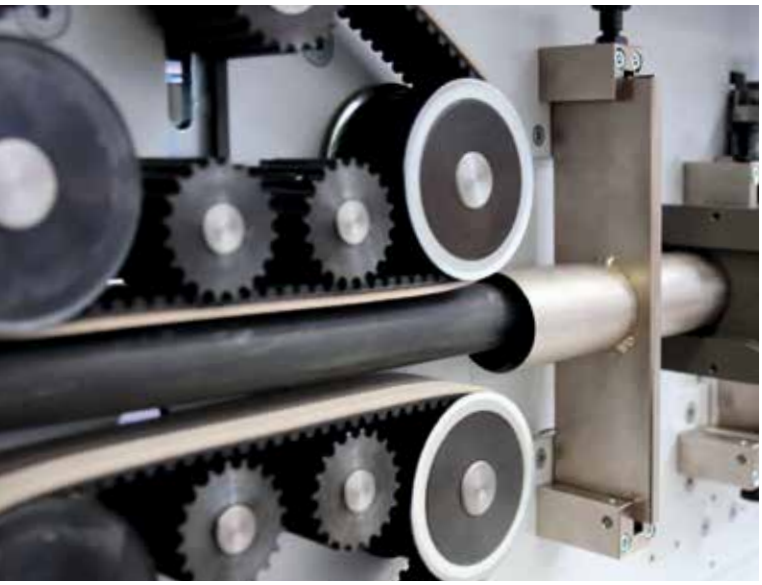
PERFECT FOR CABLES UP TO MAX. 40 MM Ø AND 400 MM² CROSS-SECTION



The Speedy 40 & Speedy 40 H
is designed for particularly large cable diameters and cross-sections, delivering outstanding power.

The Speedy 40 is a unique machine that is equipped with particularly powerful motors and effortlessly cuts cables with a cross-section of up to 240 mm².

With an optional hydraulic unit, it even cuts cables up to 400 mm² with ease. Thanks to the user-friendly software, you benefit from intuitive operation and flexible job prioritization, which optimizes and increases your production processes..



FEATURES & BENEFITS

- Power for the **largest cable cross-sections**
- **Gentle cable transport** thanks to particularly long transport modules
- **Self-explanatory software** with integrated user guidance
- **No cable waste** due to the inkjet print head at the cutting unit
- Simultaneous **double-sided labeling**



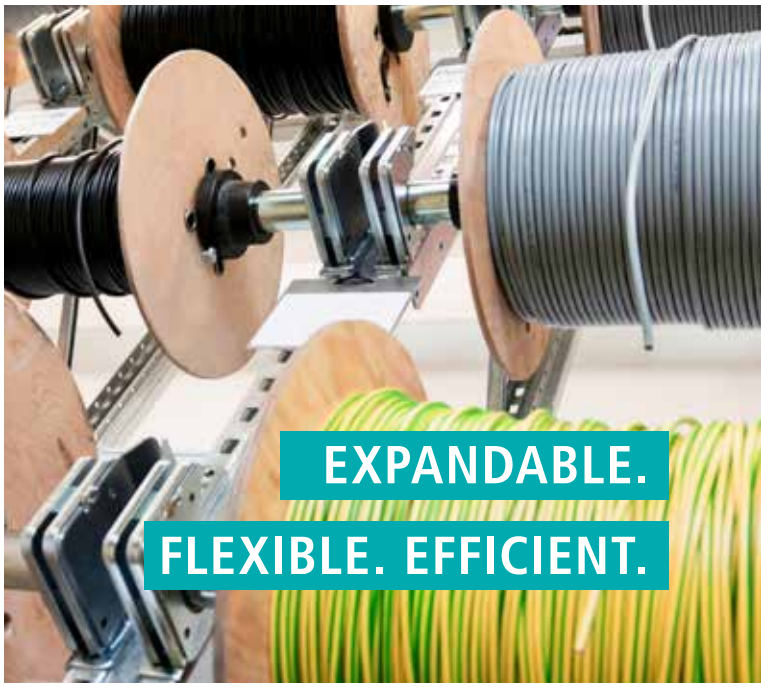
MODEL	SPEEDY 40	SPEEDY 40H
Cable outer diameter	3 – 40 mm | 0.12" – 1.57"	
Cable length (min. – max.)	220 mm "– 1000 m | 8.66" – 3,281"	
Cable cross-section	up to 240 mm² | 500 MCM	up to 400 mm² | 800 MCM
Stripping lengths	Beginning and ending ~ 10mm up to 999 mm	
Pull-off lengths	Adjustable	
Cable speed	0.1 – 2.5 m/s, programmable	
Power supply	3 x 400 VAC + N / 25 AT	
Compressed air connection	6 bar | 87 PSI	
Dimensionen (L x W x H)	1350 x 900 x 1650 mm | 53.1" x 35.4" x 65.0"	

ALL-IN-ONE SOLUTION FOR FULLY INTEGRATED CABLE PROCESSING

Metzner offers fully networked systems for every step of cable processing. Our machines for automated cutting and stripping of cables come from the Metzner Group, as do our pre- and post-processing devices such as feeding units, pay-offs, coilers, and storage systems.

All peripheral devices are 100% compatible, perfectly coordinated, and can be easily combined into a fully automated production line.

This well-designed complete solution provides maximum flexibility, increases efficiency, minimizes downtime, and ensures the highest level of production reliability.



PERIPHERAL DEVICES

- Cable feeders
- Marking/printing devices
- Cable rewinder
- Cable dispenser
- Software solutions



AM 5800 expanded into a production line with
1) electric pay-off for large cable drums and 2) ring coiler



AM 5800
extended with
1) passive coil unwinder,
2) feeder, 3) slack control,
4) cleaning station and 5) cable ring winder



AM 3850
extended with 1) passive unwinder,
2) feeder, 3) slack control,
4) inkjet printer and 5) double ring winder





PERFORMANCE OVERVIEW OF THE AM SERIES

	AM 1000	AM 2800	AM 2850	AM 2800 SAW	AM 2850 SAW	AM 2900	AM 2950	AM 3800	AM 3850	AM 5800	AM 5850
Cut-to-length	●	●	●	●	●	●	●	●	●	●	●
Stripping with partial and full pull-off	●	●	●	●	●	●	●	●	●	●	●
Window stripping	●	●	●	–	–	●	●	●	●	●	●
Extremely long pull-off in multiple stages	●	●	●	–	–	●	●	●	●	●	●
Jacket stripping of multi-conductor cables	●	●	●	–	–	●	●	●	●	●	●
Inner conductor stripping	–	–	–	–	–	●	●	–	–	–	–
Flat ribbon stripping and inner strands processing [1]	○	●	●	–	–	●	●	●	●	●	●
Teflon cable stripping	●	●	●	●	●	●	●	●	●	●	●
Incise cutting and length slitting	–	●	●	●	●	●	●	●	●	●	●
Stripping of very thin insulations	●	–	●	–	●	–	●	–	●	–	●
Metal braid stripping with protection cap	–	●	●	●	●	●	●	●	●	●	●
Multi-step stripping	–	●	●	●	●	●	●	●	●	●	●
Multi-step processing of coaxial cables	–	–	●	–	●	–	●	–	●	–	●
Marking and printing	●	●	●	●	●	●	●	●	●	●	●
Cutting wire	●	●	●	●	●	●	●	●	●	●	●
Max. diameter in mm | AWG	10	15	15	15	15	15	15	20	20	35	35
Max. cross-section in mm²	6	35	35	35	35	35	35	70	70	185	185

1) depending on material | ● standard, ○ optional, – not available

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