

mkm
we live copper

Strips

Cable strip and strips for
high-frequency cables



OUR ASPIRATION

We're rolling out the future – as wide as possible.

Copper possesses especially high electrical and thermal conductivity. It also has unusually good corrosion resistance. That's why it is used increasingly in complex urban, rural and maritime infrastructural projects. Global connectivity is bringing together the fields of telecommunications, high-frequency technology and power transmission – using MKM copper.

Cable strip and strips for high-frequency cables made by MKM fulfil all kinds of conductivity and tolerance requirements – that goes without saying. Our aim is to exceed our customers' expectations in quality, delivery time and flexibility. That's why copper from Mansfeld is used all over the world – Europe, North Africa, the Middle East, South-East Asia and the Far East. Our goal is to help energy flow perfectly – worldwide.

Energy flows – and our copper likes it that way.

Cable strip made from MKM copper sets the standard for cables carrying high current and also data cables. The world's leading cable manufacturers opt for MKM's high-frequency cable strip.

Our expertise – your gain

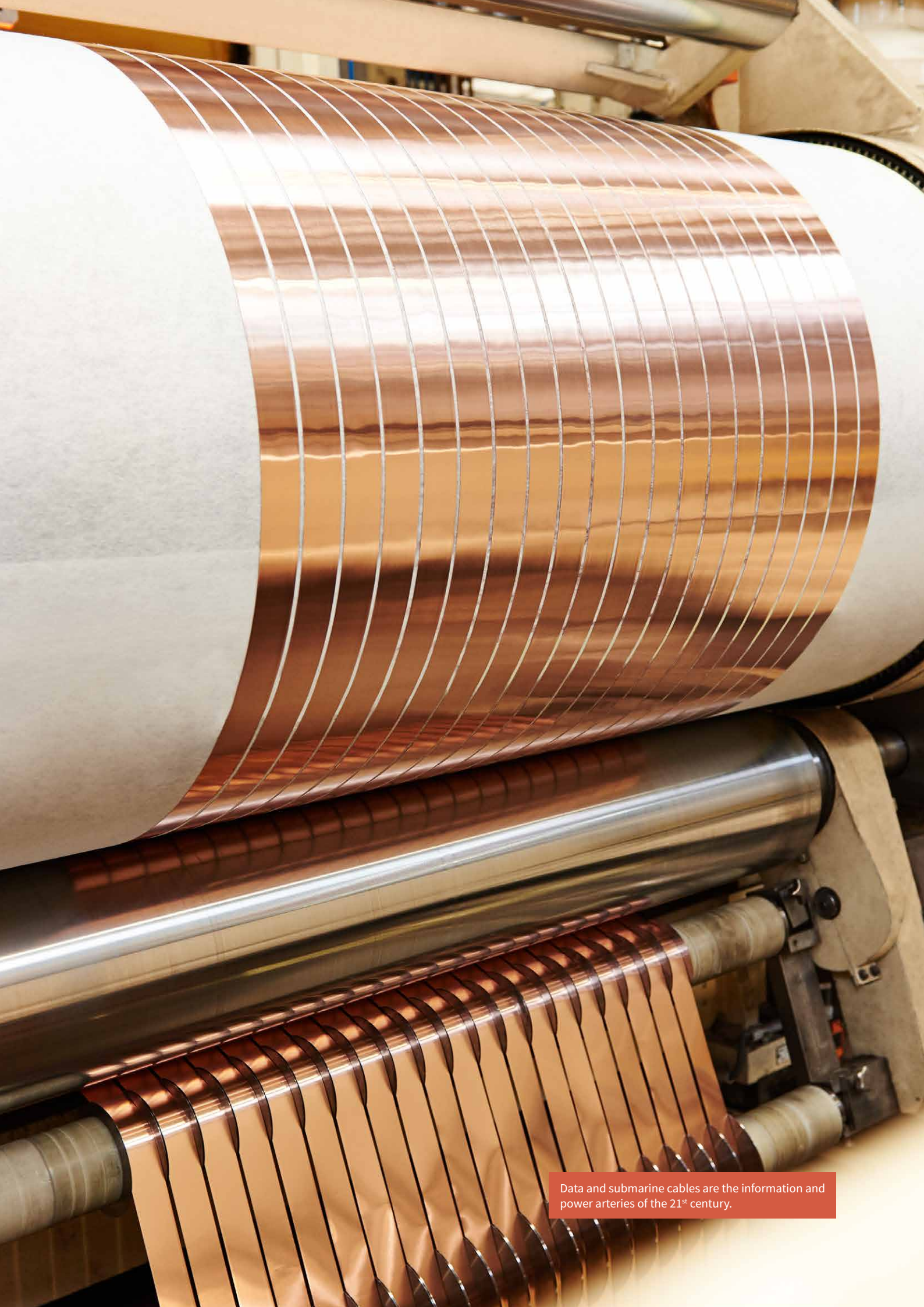
Cable strip requires precision manufacturing. Only strips with uniform mechanical specifications, narrow width and thickness tolerances and low-burr edges can be processed perfectly for the shielding of cables. This in turn requires modern rolling mills, annealing furnaces, tension levellers and slitting lines.

It is crucial to eliminate periodical thickness fluctuations when making high-frequency cables. Specialised sequences on our rolling mills and a maintenance management system on our production facilities which is tailored to the production of high-frequency strips enable us to make extremely precise strips at lengths of up to 6,500 metres. Computerised FFT analysis on the finished strip helps us guarantee that we deliver strips with the very best transmission properties.

By opting for MKM cable strips you are choosing:

- technically grease-free, clean surfaces
- high dimensional accuracy
- no periodical thickness fluctuations
- high electrical conductivity
- corrosion-resistance
- homogenous materials
- a durable and maintenance-free material
- a material that is light and flexible to process
- an ecologically and economically viable material
- a huge variety of product widths and thicknesses
- integrated production – from preliminary to finished strip – all from a single source
- comprehensive advice during the selection process
- more than a century of experience involving standard and specialised requirements
- a highly qualified workforce
- comprehensive advice and support for:
 - product development
 - surface qualities
 - new material qualities and alloys
 - optimising the use of materials
 - new applications
 - improving business and technological processes
- product- and order-specific packaging, etc.

Our minimum purchase quantity is 2 t per size.



Data and submarine cables are the information and power arteries of the 21st century.

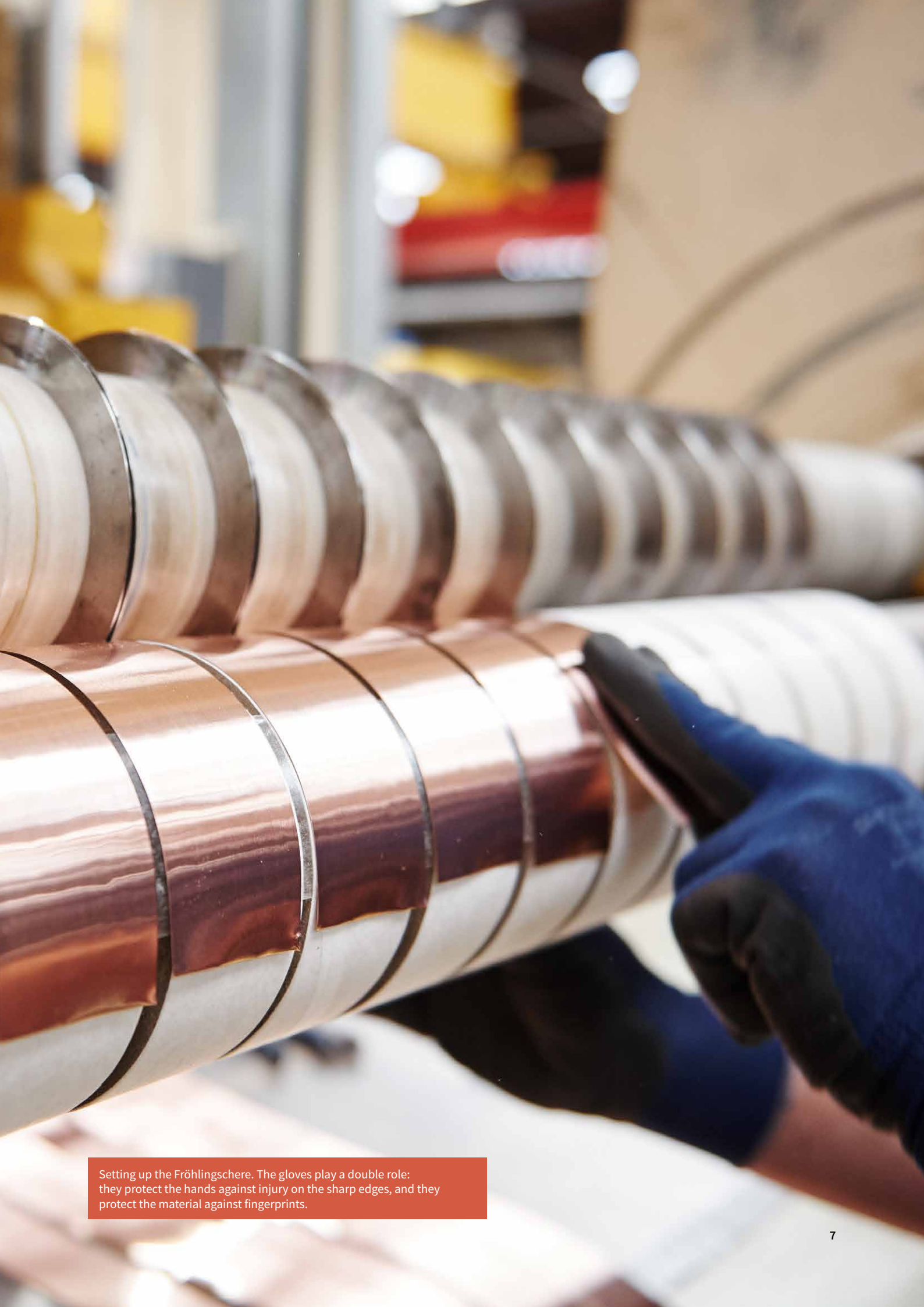
Facts and figures

Dimensions, cable strip/HF strip

Material	Dimensions		Spec. coil weight			Minimum order in t
	Thickness in mm	Width in mm	Type	Thickness range in mm	Spec. coil weight in kg/mm BB	
Standard-compliant copper	Cable strip: 0.07 – 0.3	Cable strip: 10 – 330 (360)	Cable strip	0.07 – 0.19	1 – 2	2
Standard-compliant copper	Cable strip: 0.07 – 0.3	Cable strip: 10 – 330 (360)	Cable strip	0.2 – 0.3	1 – 1,5; 2 – 3; 5 – 6	2
Standard-compliant copper	HF strip: 0.15 – 0.50	HF strip: 20 – 200	HF strip	0.15 – 0.50	RG/length on request	2

Alloys, copper

Material DIN/EN	Material no.	Material abbreviation as per				
		ISO	ASTM	BS	AFNOR	JIS
E-Cu 58/CW 004 A	2.0065	Cu-ETP	C 11000	C 101	Cu-a1	C 1100
SE-Cu/CW 020 A CW 021 A	2.0070	Cu-PHC Cu-HCP	C 10300	C 103	Cu-c1	-
OF-Cu/CW 008 A	2.0040	Cu-OF	C 10200	C 103	Cu-c1	C 1020
Cu-OFE/CW 009 A	-	Cu-OFE	C 10100	C 110	Cu-c2	C 1011
SW-Cu/CW 023 A	2.0076	Cu-DLP	C 12000	-	Cu-b2	C 1201



Setting up the Frühlingschere. The gloves play a double role: they protect the hands against injury on the sharp edges, and they protect the material against fingerprints.

Product areas



STRIP

MKM supplies preliminary strip, industrial strip, transformer strip, cable and HF cable strip and roofing strip. We manufacture all of our strip products using our Conti-M® technology which we developed inhouse, using continuous casting technology to achieve a uninterrupted 24/7 process.



SHEETS, PLATES AND DISCS

MKM offers sheets, plates and discs in a wide range of dimensions. Our rolling mill is supplied by our own foundries. Our strengths lie in a rich range of more than fifty alloys. We can also produce plates and discs to customer specific drawings on request.



WIRE

MKM supplies the entire spectrum of wire rod, from thick, medium and fine wire to stranded wire and wire rope. Our fully integrated Contirod® technology allows us to offer copper wire products and alloy wire products (plain and tinned) with a wide range of finishes.



TUBES

MKM supplies tubes of different lengths, diameters and thicknesses. Our HETCU® (installation tubing) and HETCOOL® (refrigeration, air conditioning and medical technology) product families are extremely well established in the market. Consistent quality management from our own continuous casting plant, right through to the tube drawing process guarantees seamless tubing with outstanding quality.



BARS

MKM is one of Europe's leading producers of copper bars and profiles. Our production range encompasses a wide range of sizes in various grades of copper. We also produce customised profiles based on technical drawings.



CUSTOM SOLUTIONS

MKM develops solutions tailored entirely to its customers' requirements. With the technical means and many years of experience, we regularly find unconventional solutions.

We can manufacture any of our products in compliance with the relevant DIN standards, internationally established standards and custom requirements. All of our packaging is appropriate to the products it contains.

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