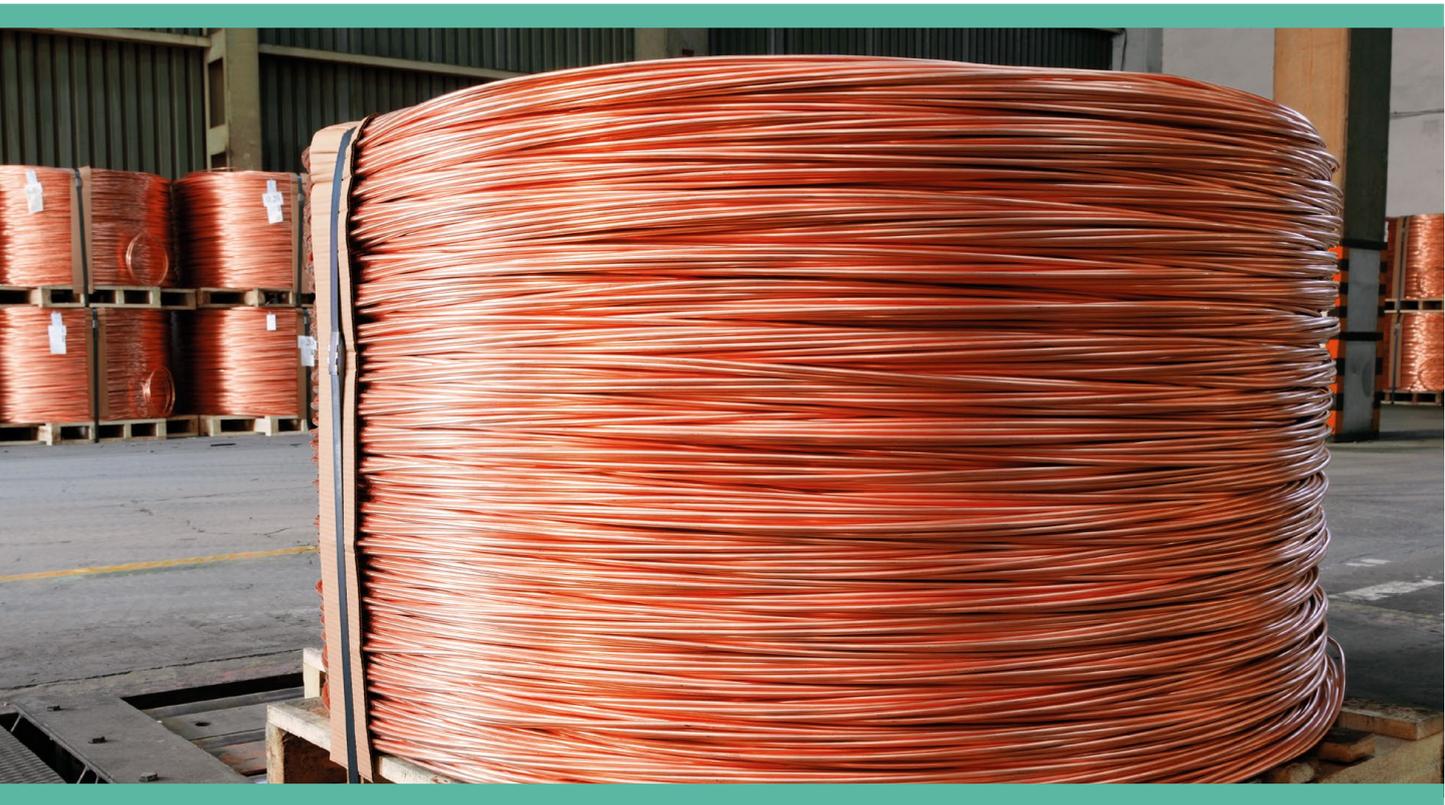
A close-up photograph of several large coils of copper cables, showing the intricate texture and metallic sheen of the wires. The lighting is warm, highlighting the copper's natural color.

HUBER+SUHNER introduces recycled copper cables

Reducing carbon footprint without
compromising on performance



Recycled copper cables: A small step towards a more sustainable future

The new HUBER+SUHNER 100% recycled copper cables are designed to meet industry standards whilst minimising environmental impact and reducing carbon footprint, without compromising on performance.

At HUBER+SUHNER (H+S), we are committed to taking a step toward limiting global warming and promoting a circular economy by offering 100% recycled copper cables. As the demand for climate-friendly products increases, opting for recycled, low-carbon products is essential. Together, we can drive innovation and achieve emission reductions across the value chain.

HUBER+SUHNER is working towards a low emission economy. Today, around 80% of our greenhouse gas emissions come from the materials we source, but we aim to having reduced these emissions in Scope 3 by 25% by 2030. To support these and our customers' targets, we continuously work with our suppliers. As a result of such collaboration, we are now offering **railway and automotive cables which are made from recycled copper and on average have a 50% reduced carbon footprint**.

Choose 100% recycled copper cables to be part of the change

Our cables are designed, developed and tested according to customer specifications and industry standards: **these recycled copper cables have the same quality and performance as**

conventional ones, but a smaller carbon footprint. Our cables are lightweight and durable with a general lifetime of at least 30 years, which further reduces the carbon footprint throughout their lifecycle.

How do we achieve emission reductions?

Copper is the main driver of the environmental impact of our cables. Hence, in reducing our cables' carbon footprint, copper is the natural starting point. Recycled copper stands out for its energy efficiency: the recycling process consumes significantly less energy compared to producing new copper. By using recycled copper, we conserve energy and material resources and reduce the product's carbon footprint.

Beyond the lower carbon emissions, this copper has a much lower impact on biodiversity and other natural resources than conventionally mined copper. This makes it an excellent eco-friendly alternative. While HUBER+SUHNER cables already use a higher proportion of post-consumer recycled copper than the industry average, our recycled copper cables are made from 100% recycled copper, significantly reducing CO₂ emissions.

Circularity: closing the loop for resource efficiency

A sustainable future starts with a smarter use of resources. This is also a core component of the [EU Clean Industrial Deal](#). Copper can be recycled without losing quality. By sourcing 100% recycled copper, we are reducing the demand for virgin materials, improving resource efficiency, and lowering our environmental footprint. This is a step towards a more circular economy, where valuable resources remain in use rather than being discarded. **Investing in recycled copper is therefore also investing in a more sustainable future** by taking a step towards circularity.

Validation approach

Our products will come third-party verified, validating both the calculation of our emissions and processes. We use **100% third-party verified European copper**, predominantly certified through mass balance-based self-declaration according to ISO 14021. A mass balance approach means that copper from recycled and standard cathodes is mixed during the production of the copper rod, but the exact input and output quantities are carefully monitored to ensure no more recycled copper is sold than originally added. However, this method does not allow for precise tracking of the recycled material in the final product. This is similar to how green electricity is procured by households today, where the source

of the electricity cannot be distinguished, but the overall balance is maintained. Nonetheless, we can certify the copper as having a lower emission footprint based on the overall reduction achieved through the use of recycled cathodes.

Together, let's take a small step towards a more sustainable future.

[Get in touch with us to learn more.](#)

Scope of the analysis

The PCF quantifies the total greenhouse gas emissions produced over the entire life cycle of the product. The numbers provided here are based on a "cradle to gate" analysis, which includes the extraction of raw materials, transportation, and manufacturing processes up to the point where the product leaves our factory.

Wherever possible, we rely on primary data from suppliers. When this is not feasible, we use secondary data from the widely recognised ecoinvent lifecycle assessment database. We have calculated the PCF for most of our wire and cable products and are using this data as a foundation to reduce emissions.

Product Carbon Footprint (PCF)

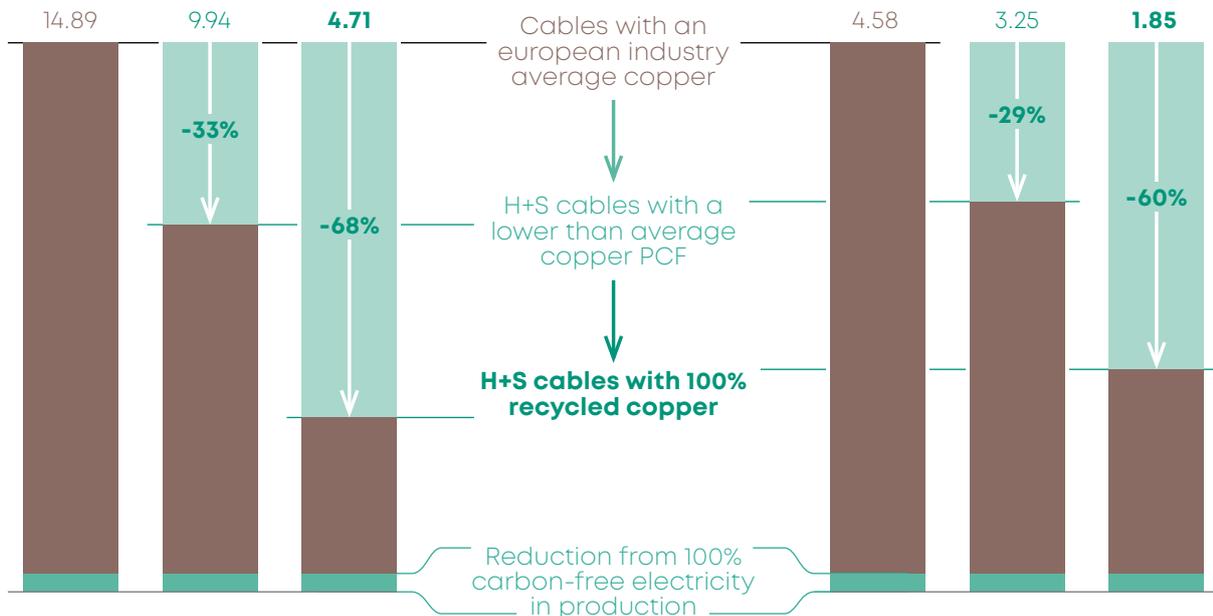
in kg CO₂-equivalent per m (2024)

Exemplary railway cable:

4 GW-AX (EN50264-3-1) 1800V 1X300 MM S

Exemplary automotive cable:

AUTO B 1X70MM2P 155/REMS OG



Railway and automotive cables with 100% recycled copper

Railway cables	Automotive cables
<p>RADOX® EN50306-2 300V M RADOX® EN50306-3 300V MM S RADOX® EN50306-4 1P/1E 300V MM RADOX® EN50306-4 3P/3E/5P/5E/7P/7E 300V MM S RADOX® TENUIS-TW (EN50306-2) 600V M RADOX® TENUIS-TW (EN50306-4 1P) 600V MM RADOX® TENUIS-TW (EN50306-4 3P/5P/7P) 600V MM S RADOX® GWK-LW (EN50306-2) 600V M RADOX® GWK-LW (EN50306-4 1P) 600V MM RADOX® GWK-LW (EN50306-4 3P/5P/7P) 600V MM S RADOX® RAILDAT 120 OHM XM S RADOX® DATABUS 120 OHM XM S FR RADOX® RAILCAT CAT5e XM S RADOX® RAILCAT CAT5e XM S FR RADOX® RAILCAT CAT7 XM S RADOX® 3 GWK EN50264-3-1 600V M RADOX® 3 GWK EN50264-3-2 600V MM RADOX® 3 GWK EN50264-3-2 600V MM S RADOX® 3 GWK EN50264-3-1 600V M FR RADOX® 4 GWK-AX EN50264-3-1 1800V M RADOX® 4 GWK-AX EN50264-3-1 1800V MM RADOX® 4 GWK-AX (EN50264-3-1) 1800V MM S RADOX® 4 GWK-AX (EN50264-3-2) 1800V MM S RADOX® 9 GWK-AX (EN50264-3-1) 3600V M RADOX® 9 GWK-AX EN50264-3-1 3600V MM RADOX® 9 GWK-AX (EN50264-3-1) 3600V MM S</p>	<p>RADOX® 155 / RADOX® Elastomer S (FHRL4GC13X) RADOX® 155 Battery cables RADOX® 155(S) / RADOX® Elastomer S (FHRL91XC13X and FHRL4GC13X) RADOX® Elastomer S (FHRL91XC13X and FHRL4GC13X) RADOX® Elastomer S Battery cables RADOX® Elastomer S Battery cables (REMS) FLEX RADOX® SENSOR CABLES unscreened tinned (LFO682) RADOX® SENSOR CABLES unscreened bare (LFO682) RADOX® SENSOR CABLES screened tinned (LFO682) RADOX® SENSOR CABLES screened bare (LFO682) RADOX® 155S FLR (FLR91X / FHRL91X) Anticapillary special (LFO683) RADOX® 155S FLR (FLR91X / FHRL91X) Anticapillary silicone (LFO683)</p>



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HUBER+SUHNER is certified according to ISO 9001, ISO 14001, OHSAS 18001, EN(AS) 9100, IATF 16949 and ISO/TS 22163 – IRIS.

Waiver

Fact and figures herein are for information only and do not represent any warranty of any kind.