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ABB pioneers advanced cable protection solution crafted from discarded ocean fishing nets

- ABB Installation Products introduces one of the industry's first cable protection systems made from recycled fishing nets
- New PMA® EcoGuard™ PA6 sustainable cable protection helps safeguard electrical cables, wires and marine life
- Innovative wire and cable protection supports circularity goals and performance requirements in machine building applications

High-performance wire and cable protection is essential to powering electrical systems and production environments safely and reliably. ABB's industry-leading PMA® EcoGuard™ PA6 cable protection solutions are crafted from 50% recycle-based polyamide using primarily recovered fishing nets. Engineered for strength, durability, compatibility and recyclability PMA EcoGuard solutions protect critical power and data cables in a range of applications, including machine building, renewable energy, telecommunications and infrastructure.

Durability and reliability

Meeting key performance indicators defined in ABB's circularity framework, PMA EcoGuard PA6 delivers the strength and dependability required for demanding industrial applications. PMA EcoGuard PA6 RPPA conduit is part of ABB's EcoSolutions™ line of innovative and sustainable solutions carries an external, third-party verified Lifecycle Assessment (LCA, Type III).

Exceptional performance, reduced environmental impact

A sustainable alternative to conventional plastic-based systems, PMA EcoGuard PA6 RPPA conduit from ABB Installation Products requires less energy and water to produce, reducing 30% of upstream Scope 3 greenhouse gas emissions and 50% of net freshwater use.

"ABB's commitment to circularity and transparency extends across the entire product lifecycle from initial design and sourcing to manufacturing, through use and end of life. Developing advanced products from repurposed materials, like PMA EcoGuard cable protection, meets the demands of industrial applications, while helping provide jobs, protect marine life, preserve resources, and promote a more sustainable and environmentally responsible future," said Andrea Castella, Europe Region Leader, ABB Installation Products Division. "Expanding ABB's PMA product range to include EcoGuard PA6 gives our customers a post-consumer, recycle-based nylon cable protection solution they can rely on to easily integrate with their machinery and systems, deliver dependable performance, and help reduce risk, waste and negative environmental impact."

Transforming discarded ocean fishing nets into technically advanced cable protection

To lower Scope 3 emissions and make this innovation possible, ABB partnered with Envalior, a global leader in sustainable and high-performance engineering materials. ABB leveraged its nearly 50 years of cable and conduit technology and dedicated circularity approach with Envalior's deep materials expertise. ABB's PMA EcoGuard cable protection products include Envalior's Akulon® RePurposed, a 100% recycle-based polyamide made of fishing nets recovered from coastlines. In addition to benefitting local economies and the environment, the Akulon RePurposed compound is UL2809 ECVP-certified for Ocean-Bound Plastic (OBP) content and employs production processes that result in a 70% lower carbon footprint than similar fossil-based nylon 6 materials. Made of high-grade polymer, ABB's new PMA EcoGuard PA6 cable protection system meets the European Union's (EU) environmental REACH regulations and the EU's RoHS standards for hazardous waste restrictions.

For nearly half a century, ABB's PMA solutions have been used to protect data and electrical cables and wires from damage caused by strain, stress and extreme conditions in commercial and industrial applications. Designed for demanding installations, the new line includes three products: PMA® EcoGuard™ PA6 RPPA conduit, a flexible and lightweight corrugated nylon conduit that is UV and weather-resistant; BRND fittings help prevent liquid and dust ingress and are IP66 rated; and compact, one-piece BFHRP conduit holder lends support and adjusts for easy installation and maintenance.

PMA cable and conduit solutions are tested, produced and packaged in recyclable materials at ABB's Uster, Switzerland facility and available globally.

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For more information please contact:

ABB Installation Products

PMA Cable Protection

Felix Ingold
felix.ingold@ch.abb.com
Mobile: +41799501823
Aathalstrasse 90
8610 Uster, Switzerland

Installation Products Media Relations

Hannah Anthony
+1 470 501 1466
hannah.anthony@us.abb.com

Building on its 125-year history of pioneering in electrification, **ABB Installation Products** creates solutions to safely connect and protect electrical systems that power businesses, cities, homes and transportation. With more than 200,000 products under 38 premium brand names, ABB Installation Products, formerly Thomas & Betts, solutions are found wherever electricity is used around the world and in space.

ABB is a technology leader in electrification and automation, enabling a more sustainable and resource-efficient future. The company's solutions connect engineering know-how and software to optimize how things are manufactured, moved, powered and operated. Building on over 140 years of excellence, ABB's more than 105,000 employees are committed to driving innovations that accelerate industrial transformation. **www.abb.com**