



EDITION 16
VOLUME 1

15 THINGS TO KNOW ABOUT

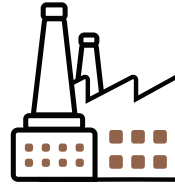
PRODUCT SUSTAINABILITY AT SOUTHWIRE

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WE DELIVER POWER...RESPONSIBLY®

Southwire is committed to providing the highest quality products and we are dedicated to protecting the well-being of our communities and the environment. The life cycle of products is assessed from the extraction of raw materials, manufacturing processes, designs, code & standard compliance, installation efficiency, performance, to the energy consumption and the final disposal. We deploy renewable energy and other measures to work toward carbon neutrality for scope 1 and 2 emissions by 2025. We also reinforce the electrical grid to withstand more frequent occurrences of extreme weather as a result of climate change.



MANUFACTURING & ASSEMBLY

Southwire has invested in multi-year modernization projects to make a 70-year-plus company sustainable for the next 100 years. During manufacturing & the final assembly of finished goods, we seek opportunities to reduce hazards, which can be anything that poses a threat to the safety and the health of workers or the environment. Reducing waste and recycling scrap to attain the best output have been the top priority for decades. We put heavy emphasis on economically-sound processes that are vertically integrated to conserve energy as well as natural resources to make each product.



**STRONG.
SUSTAINABLE.
SOUTHWIRE.**

5 TENETS OF SUSTAINABILITY

At Southwire, our employees are The People Behind the Power™ of what is possible

We seek to discover, develop and distribute strong and sustainable solutions that exceed the expectations of our stakeholders around the world. To achieve this vision, our sustainability approach leverages five core tenets that guide and ground our efforts: Growing Green, Living Well, Giving Back, Doing Right and Building Worth.



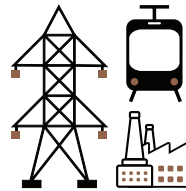
INSTALLATION

Once the wire and cable products are delivered to the job site, they will be unloaded, unreeled, pulled, bent, and laid at the final destination. Every step of the way could be labor-intensive, time-consuming, and error-prone to trigger severe physical damage to products and cause injuries if not handled appropriately. Safer, more ergonomic, and more effective installations can be executed by reducing hazards or waste, reusing packaging or reel handling systems, raising flexibility, reducing pull tension, and more. Southwire has sold many patented inventions that yielded safer installations globally.



RAW MATERIALS

Southwire strives to create safer chemical formulations with less hazardous substances to lessen the environmental footprint or with "Living Building Challenge Red List" approved compounds to prevent serious risks to human health. We encourage our suppliers to reduce their carbon footprint and collaborate to find more sustainable raw material solutions. Furthermore, increasing the recyclability of all components and upgrading packaging designs are commonly utilized. Finally, sustainable procurement, which integrates social, ethical, and environmental requirements into the qualification of suppliers is a must.



USE PHASE

Multiple factors will determine the sustainability of wire and cable products after the system has been energized. Firstly, using materials designated low-smoke and/or zero-halogen reduces hazard that compromises the health, safety, and the environment. In the event of overheating due to short-circuit or fire, these products generate fewer toxic gases. Secondly, products can be designed to carry a greater ampacity with less energy loss. Lastly, these products can also boost grid resiliency in case of natural disasters such as hurricanes or severe environmental conditions such as corrosive saltwater, heavy UV rays, or wildlife attack.



Southwire®

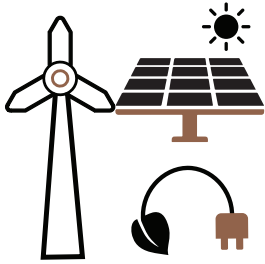


15 THINGS TO KNOW ABOUT PRODUCT SUSTAINABILITY AT SOUTHWIRE



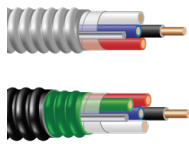
END OF LIFE

The wire and cable products manufactured today can achieve an average life of 40 years if designed, installed, and operated properly. Using ruggedized systems can extend the ultimate service life, which, in turn, delays replacement. A shorter downtime and less likelihood of worker injuries during cable replacement should be considered. Southwire offers field repair and cable rejuvenation services to further extend the life of cables. When aging assets need to be disposed of, better recyclability can be found on cables extruded with thermoplastic or non-crosslinked insulations and jackets or conductors containing a single metal instead of mixed metals.



PRODUCT TRANSPARENCY

Southwire can provide third-party verified Environmental Product Declarations (EPDs) for over 90% of wire and cable product categories sold. Many of those are deployed specifically for the explosive growth of renewable industries including electric vehicle (EV), wind and solar power, battery energy storage systems (BESS), and mass transit. Our sustainable solutions can also be seen at residential homes, commercial developments, industrial and OEM applications, as well as utility grid projects. This technical document showcases six product examples, and more can be found on the Southwire website.



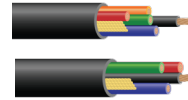
MCAP[®] TYPE MC ALL PURPOSE CABLES

MCAP[®] Type MC Cable was invented based on electricians' feedback to reduce terminations per box and to declutter the wiring. This solution can simplify grounding connections with fewer parts, boosting grounding reliability with the patented integral ground laid under the armor, and less mechanical connections. Eliminating one termination in every outlet with less room for error and cutting up to two minutes of installation time per connection could lower the overall project cost by up to 50%.



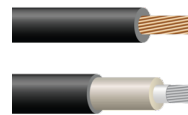
SIMpull[®] COILPAK[™] WIRE PAYOFF AND SIMpull BARREL[™] CABLE DRUM

A SIMpull[®] CoilPAK[™] Wire Payoff paired with a low-friction SIMpull THHN[®] wire lessens the physical burden of material handling with a major reduction in pulling tension. It is a space saving design when bundling multiple wires in a single package. SIMpull Barrel[™] Cable Drums allow branch circuit installations to be completed with the utmost safety and productivity. No need to worry about broken reels, flanges, or torn arbor holes. A variety of products can be shipped in SIMpull Barrel[™] Cable Drums including type MC cables. The drum holds longer lengths, which shortens time to change over and reduces wire remnants on site.



EV CHARGING

With a growing interest in clean energy coupled with the advancement of lithium battery production, electric vehicle adoption for residential, commercial, and government entities is happening at a record speed. The rapid EV expansion can also be attributed to the investment in building out the grid infrastructure through Electrify America and the Bipartisan Infrastructure Law (BIL). Southwire's EV charging cables, building wires, and medium voltage cables that power the pedestals play a critical role in the supply chain to fulfill the enormous demand in the years to come. Southwire is proud to support the transition to an all-electric future and the reduction of greenhouse gas emissions from transportation.



LOW SMOKE ZERO HALOGEN (LSZH)

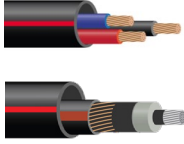
Safer and environmentally friendly modes of public transportation are a necessity as urbanization stresses existing traffic corridors. Heavy smoke and toxic gases are harmful, making low smoke zero halogen (LSZH) materials the best choice for public safety in the event of a fire in less ventilated spaces such as tunnels used for mass transit. LSZH designs are commonly specified for manholes and underground installations located in densely populated areas. Southwire's SOLONON[®] LSZH and SOLONONplus[™] LSZH product lines include XHHW-2, RHH/RHW-2, traction power cables, medium voltage cables, as well as multiconductor tray cables with an overall LSZH jacket.





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SIMpull® CABLE-IN-CONDUIT (CIC)

In recent years, widespread power outages caused by natural disasters have expedited the hardening of our electrical grid. This can be accomplished in several ways. One is to convert critical overhead lines to below grade networks either by using cable-in-conduit (CIC) or ruggedized underground cable constructions. Pulling a single reel containing cables protected by a durable high-density and halogen-free polyethylene (HDPE) duct not only saves labor and reduces installation time, but also prevents field injuries due to material handling. CIC is safer than direct burying cables and it also extends life, lowers cable replacement frequencies, and shortens outage duration.



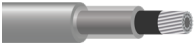
Southwire

CABLETECH SUPPORT™

Services

CABLETECHSUPPORT™ SERVICES

Southwire's CableTechSupport™ services offer many reference documents and whitepapers to help end users with the selection of products for the most challenging applications. Our Re3™ mission statement, is based on sustainability: to design Reinforced, Resilient, Reliable products and provide services to Respond, Rectify, and Restore. You can access the publications directly from the website. We have a track record of successful custom engineering solutions to meet customers' needs and exceed long-term electrical, thermal, mechanical, and environmental performance.



TREE WIRE (COVERED CONDUCTOR)

Tree wire improves resiliency of overhead lines in tree-crowded areas prone to major weather events including storms and wildfires. The robust covering can prevent direct shorts and instantaneous flashovers when tree limbs or other objects such as wildlife contact conductors are in close proximity. The abrasion, track, and UV resistant high-density crosslinked polyethylene (XL-HDPE) outer layer minimizes power outages and sparks due to conductor slapping during windy conditions. Tree wires or covered conductors require less frequent tree trimming compared to their bare overhead counterparts.



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