



EDITION 20

VOLUME 1

20 REASONS WHY SOUTHWIRE

Sponsors Formula E

WRITTEN BY: Dr. Yuhsin Hawig, VP of Applications Engineering

FORMULA E ACCELERATE CHANGE WITH FORMULA E



Official Wire & Cable Provider

Southwire is the Title Sponsor of the 2023 Southwire Portland E-Prix held on June 24, 2023. This event in Oregon marks United States' debut of the GEN3 – the fastest, lightest, and the most powerful electric race car ever built. Formula E is the world's first all-electric FIA World Championship and the first sport globally to be certified Net Zero Carbon since inception. We collaborate with Formula E simply because our strategies are fully aligned to "accelerate change towards an electric and sustainable future". This article summarizes the top 20 reasons Southwire sponsors Formula E.



ONE-STOP SHOP FOR SUSTAINABLE PRODUCTS

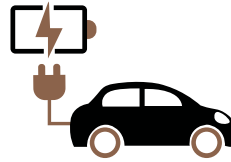
Southwire, the official wire & cable provider of Formula E racing, is a one-stop shop for residential, commercial, industrial, and utility projects. We offer over 180 products that feature sustainable attributes. The product life cycle is scrutinized from the extraction of raw materials, design, manufacturing, code & standard compliance, and installation, to energy consumption and the final disposal. **Scan the QR code to access our full spec library online.**



RESPONSIBLY PRODUCED COPPER

DRIVE SUSTAINABILITY THROUGHOUT COPPER VALUE CHAIN

In 2022, Southwire entered partnership with The Copper Mark®, an assurance framework promoting the responsible production of copper. This organization provides a comprehensive social and environmental governance program, and we are committed to adhering to internationally recognized operating practices to source and produce copper. We encourage our suppliers to take part in The Copper Mark to collectively drive sustainability throughout the copper value chain.



ELECTRIC VEHICLE & AUTOMOTIVE WIRING

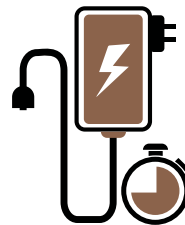
Southwire is a trusted source for automotive wiring and EV charging cables. We hold strong partnerships with global auto manufacturers, as well as Tier 1 & 2 suppliers, to deliver high-quality products certified to a wide range of industry standards. Our solutions cover on-car harness wires, AC & DC charging cable (12-500A), specialty EV assemblies, and infrastructure power cables from the grid to charging dispenser.

Scan the QR code to view our line card.



RALLY FOR GENERATIONAL SUSTAINABILITY

As a family-owned business, Southwire is proud to embark on a generational journey toward corporate sustainability by prioritizing stakeholder expectations, fostering our communities, and protecting the environment. To remain "Strong. Sustainable. Southwire.", our strategy is based on five core tenets: Growing Green, Living Well, Giving Back, Doing Right, and Building Worth.



FAST CHARGING USING LIQUID-COOLED CABLE

Southwire offers a fast-charging EV cable, protected by US patent 10,811,170. The forced cooling in a liquid-circulating assembly enables the system to achieve the greatest heat transfer coefficient, highest power charging current, and the shortest charging time. This patented technology can supply currents from 400 to 3,000 amps, which is 2-5 times better than conventional air-cooled EV designs making applications like electrified trucking fleets, mass transit, marine, and aviation possible.

Scan the QR code to learn more.

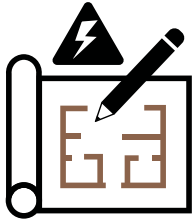




EDITION 20
VOLUME 1

20 REASONS WHY SOUTHWIRE

Sponsors Formula E



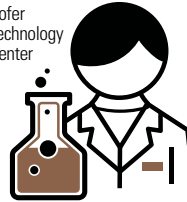
DESIGN PROCESS FROM START TO THE FINISH LINE

Did you know we can custom design the most complex power cables featuring more than 20 different bills of material? Our unparalleled expertise, aided by a multitude of modeling

software, is used to support critical projects from EV charging to its utility infrastructure. Southwire is your ultimate tech partner to deploy e-mobility in transit and hyperscale charging. **Scan the QR code to review our engineering process.**



Cofer
Technology
Center



THE RACE TO LAUNCH NEW PRODUCTS

Did you know that Southwire has successfully designed a patented product, executed manufacturing trials, conducted the full battery of testing, and launched it commercially within a few months? The race for new product development is accelerated by the urgent demand for labor efficiency, performance, safety, and cost savings alternatives. Our Cofer Technology Center has achieved advancements in R&D, formulations, metallurgy, laboratory services, and more.



TITLE MATCH IN INTELLECTUAL PROPERTY

Southwire holds more than 500 U.S. and international patents in our comprehensive intellectual property

portfolio, which allow us to stay competitive in the electrical industry. These inventions include residential wiring packaging that saves labor, industrial power cables that minimize pulling damage, commercial metal clad designs that boost reliability, and more.



ENGINEERING CHAMPION VIA CABLETECHSUPPORT™ SERVICES

Southwire's CableTechSupport™ Services' Re3™ mission is to respond, rectify, and restore. We receive approximately 15,000 engineering requests per year with more than 250 questions weekly. We are an ultra-fast engineering services champion, resolving nearly 2/3 of the inquiries within 24 hours. We are one of the first in the electrical industry to publish monthly whitepapers based on frequently asked questions. **Scan the QR code to access all articles.**



QUALIFYING AT THE SPARKS INNOVATION CENTER™

Southwire is making the future current and more accessible! The

Sparks Innovation Center™ is not only the catalyst but also the platform to scale innovation across our organization. The creative staff at the Atlanta location was formed to pursue profitable and responsible business growth through out-of-the-box thinking, adjacent vs. transformational learning, lean processes, and dynamic methodologies. Project scopes span broadly to cover all areas of the business and all industries.



SPEED™ SERVICES

Southwire SPEED™ services expedites shipping through our North American footprint via our customer service centers and agent warehouses from coast to coast. This high-speed, race-like service helps to eliminate minimum order quantities, reduce lead times, and deliver a concierge customer experience for ordering products including automotive and renewable solutions. **Scan the QR code to discover more or request a quote.**

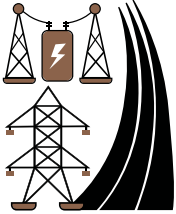




EDITION 20
VOLUME 1

20 REASONS WHY SOUTHWIRE

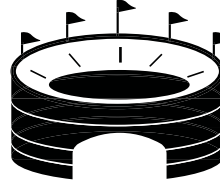
Sponsors Formula E



ON TRACK TO HARDEN THE GRID

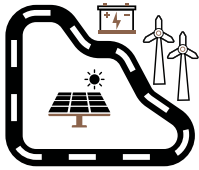
Recent widespread power outages caused by natural disasters have expedited grid hardening. This can be best achieved by converting critical overhead lines to a below grade network. We offer the most comprehensive undergrounding solutions including extra high voltage up to

500kV for HVAC and 525kV for HVDC, primary medium voltage cables up to 46kV with TR-XLPE or EPR insulation, and ruggedized 600V secondary cables in addition to a full line of overhead conductors. **Scan the QR code to review Southwire's utility line.**



SPORTS STADIUM & MEGA-SCALE ARENAS

We have been an electrical solution provider to many major sports stadiums and arenas for over a decade. We've got it all covered from SIMpull® branch circuits to feeder conductors and Romex® NM-B to MCAP® metal clad products. Southwire has revolutionized the commercial industry by partnering with electrical contractors in all phases of the job. **Scan the QR code to read more.**



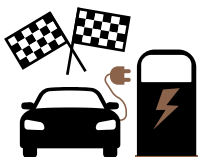
LAPS TO ROUND UP RENEWABLE POWER

Southwire is a long-time player on the renewable journey with products designed to generate power through hydro, wind, solar, battery storage, and more. Our collaborations can be seen in private investments, municipalities, investor-owned utilities, and government-funded projects based on the Infrastructure Investment & Jobs Act (IIJA) or Inflation Reduction Act (IRA). **Scan the QR code to download our product line card.**



RACE TO MEET INDUSTRY 4.0

We are automating the world, one cable at a time! Industry 4.0, the future of manufacturing, is contingent upon automation, robotics, and connected factory via smart power, voice, data, and electronics. From MachineFLEX™ power and variable frequency drive (VFD) cables, to hook-up, control, and tray cable assemblies, you can source a full range of solutions from Southwire. Our wire & cable products have been used to power automotive production, EV battery plants, and tire manufacturing facilities. **Scan the QR code to learn more.**



TOP RUNNERS TO WIN EV INFRASTRUCTURE PROJECTS

We have been awarded several projects where XHHW-2 or THWN-2 building wires in SIMpull® Cable-in-Conduit (CIC) were specified to power large-scale EV charging networks. The pre-fabricated CIC to support e-mobility has gained traction as it eliminates separate reel packages and prevents damage from on-site pulling. The all-in-one design enhances safety, minimizes scrap, saves labor, and lowers total installation cost by avoiding downtime due to trenching and using traditional conduit.

Scan the QR code to find out how Southwire's CIC can benefit your next EV project and more.



SAFETY TOOL FOR MOTOR LEAD WIRES

Lead wires can power electrical systems including automotive platforms, electronic equipment, control panels, and industrial equipment harnesses. They are used to produce complex harnesses that connect and power a myriad of components in electrical systems, so they are commonly referred to as motor lead wires or hook-up wires. No published code or standard exists today that lists the current carrying capacity of lead wires. But no worries, **scan the QR code to download Southwire's reference tool to size conductors and meet the ampacity target safely.**

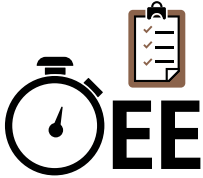




EDITION 20
VOLUME 1

20 REASONS WHY SOUTHWIRE

Sponsors Formula E



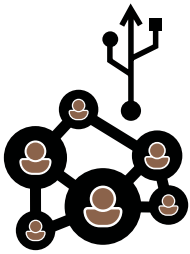
FAST TRACK TO OPERATIONAL EFFICIENCY

OEE Southwire has invested heavily in our manufacturing locations to expand capacity, improve safety, and increase operational efficiency. Overall Equipment Effectiveness (OEE) is one of the key performance indicators to measure productivity. One of the most notable modernization milestones can be seen at the new Copper Rod Plant in Carrollton, Georgia. Through cutting-edge technology, the new rod mill will produce more copper with a smaller environmental footprint while utilizing all renewable electricity for the facility.



DRIVE GREEN POWER

Southwire has been accepted into the U.S. Environmental Protection Agency's (EPA) Green Power Partnership (GPP). This program encourages organizations to use green power voluntarily to protect people and the environment. We are using nearly 173 million kilowatt-hours (kWh) of green power annually, which is enough to meet approximately 1/3 of the company's overall electricity demand. By choosing renewable energy, we are helping to advance the voluntary market for green power.



SUPERCHARGED TO SECURE TECH AND B2B PARTNERSHIPS

Southwire is supercharged to seek collaborations with Formula E's staff, racing teams, vendors, sponsors, and extended tech partners to advance the electrical industry. Applications include but are not limited to:

designing ruggedized low voltage DC cabling solutions, developing next generation EV fast charging cables, configuring lower loss and higher voltage AC cabling systems, and creating medium voltage DC power network structures to reduce power conversion needs. The Formula E partnership enables Southwire to be a thought leader to drive change and provides us access to key players in the e-mobility ecosystem.

