



EDITION 5  
VOLUME 1

# 20 TOP REASONS TO CONVERT TO SIMpull® CABLE-IN-CONDUIT (CIC)

Written by Dr. Yuhsin Hawig, VP of Applications Engineering and Erika Akins, Chief Applications Engineer



## ONE-STOP SHOP

Southwire is the **only** North American supplier that manufactures a full line of wire and cable products pre-assembled in an HDPE conduit and equipped with couplers and fittings, if required.



## 2021 INFRASTRUCTURE BILL

Southwire's versatile SIMpull® Cable-In-Conduit (CIC) products can make a tremendous impact on many future projects covered by the 2021 Infrastructure Bill, which includes energy electrification, EV charging, airports, water systems, electrical grid upgrades, and more.



## QUALITY SOURCING & MANUFACTURING

A premium grade of HDPE resin and other raw materials are sourced from quality vendors. Southwire utilizes continuous

improvement of manufacturing processes to extrude a ruggedized HDPE conduit over a single conductor or an assembly of different types of cables. Our HDPE exhibits an excellent flexural modulus, ultimate tensile strength, and slow crack growth resistance.



## ENHANCED JOBSITE SAFETY

The All-in-One CIC installation method minimizes field injuries and reduces loss time.



## IMPROVED SYSTEM RELIABILITY

SIMpull® CIC reduces cable damage during shipment, handling, and installation; prevents the cable jacket from being punctured, torn, or ripped during cable pulls; and protects cables from weather, wildlife, accidental dig-ins, and nearby construction projects or utility repairs or upgrades.



## FULL QUALIFICATIONS

Mechanical properties before & after thermal aging, direct burial evaluations with crush and impact, deflection under heat and load, low temperature handling or drop, moisture penetration, and water absorption tests have been completed.



## 2 UL CERTIFICATIONS

Southwire's SIMpull® Cable-In-Conduit (CIC) has been tested and qualified to the applicable UL standards helping ensure that you receive UL certified cables in UL certified HDPE conduit.



## HYDROPHOBIC

HDPE is hydrophobic in nature and repels water with a low moisture vapor transmission rate compared to PVC, which is much more hydrophilic and absorbs water quickly.



## MULTIPLE INDUSTRY STANDARDS

Fully compliant with multiple industry standards including NFPA 70 NEC®, UL-1990, UL-651A, NEMA TC-7, ASTM D3350, ASTM D3485, ASTM F2160, and CSA C22.2 No. 327-18 for the conduit and UL 514B for the cable fittings.



## 100+ DESIGNS AVAILABLE

8 different trade sizes are available for HDPE conduit: 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", and 4". There are 4 outside diameter (OD) wall thicknesses to choose from: Schedule 40, Schedule 80, EPEC 11 (SDR 11), and EPEC 13.5 (SDR 13.5). More than 10 color customization options are available using a solid color or 3 extruded color stripes to create the best visual identification for unique government or utility applications.



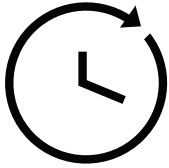
**Southwire®**



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## IMPROVED JOBSITE EFFICIENCY

Pulling using a single reel saves labor and reduces installation time. Up to 25-45% time savings can be achieved. CIC can be direct buried in the ground or encased in concrete.



**REINFORCED  
RESILIENT  
RELIABLE**

## ADVANCED ELECTRICAL MODELING

CableTechSupport™ Services provides Re3™ consultations about the custom design of reinforced cables and the support of critical infrastructure projects where resilience &

reliability are non-negotiable. Ampacity calculations and advanced electrical modeling can be conducted to validate the maximum current carrying capacity and short circuit performance of the cables under different operating or ambient conditions.



## REDUCED PROJECT COSTS

Shorten outage durations, accelerate repair or upgrade efforts, extend system performance and life expectancy, and reduce cable replacement frequencies. Up to 30-50% improvement in the overall life cycle cost can be obtained.



## END USER APPROVALS

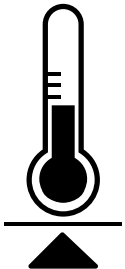
Southwire's SIMpull® CIC has been utilized by end users in various applications, including the US Department of Transportation (DOT), the US Department of Energy (DOE), commercial

constructions, EV infrastructure expansions, Utility grid-hardening efforts, airports, mass transit, renewables, petrochemical, agriculture, and data centers.



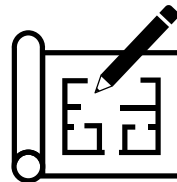
## PRE-LUBRICATED

A low-friction lubricant is applied during the HDPE extrusion process to prevent the cables from adhering to the inside of the conduit wall and to ensure free cable movement.



## EXCELLENT THERMAL STABILITY

Conduit is made of a high molecular weight and high-density polyethylene (HDPE) with a superior thermal resistance due to its higher melting point compared to rigid PVC pipes.



## CABLE COMPATIBILITY

Any wet-rated cables, including USE-2, RHW/ RHW-2, XHHW-2, underground MV & 600V cables, power and control, grounding cables, etc., can be extruded with an HDPE conduit to create cable-in-conduit (CIC).

CIC is suitable for secondary (600V) and primary (5-46kV) undergrounding in the USA, Canada, and Central and South America.



## CERTIFIED TESTING FACILITY

Qualifications were performed at Southwire's D.B. Cofer Technology Center, an ISO-17025 accredited facility and a UL and CSA certified laboratory, specializing in electrical, mechanical, thermal qualifications, and accelerated aging tests.



**RESPOND  
RECTIFY  
RESTORE**

## FIELD & EMERGENCY SERVICES

CableTechSupport™ Services delivers Re3™ field assistance to respond to jobsite emergencies and helps to rectify or restore interruptions through cable inspections, diagnostic testing, Go vs. No-Go determinations, or hands-on cable repairs.



## ENVIRONMENTAL SUSTAINABILITY

HDPE conduit is made of a simple and pure formulation with a neat polyethylene-based resin. HDPE is lead-free and naturally halogen-free with a zero-acid gas emission.





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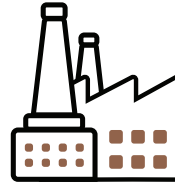
# 15 THINGS TO KNOW ABOUT SUSTAINABLE ATTRIBUTES AND PRODUCTS

WRITTEN BY: Dr. Yuhsin Hawig, VP of Applications Engineering | Erika Akins, P.E., Applications Engineering Manager



## 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 scrutinized from the extraction of raw materials, manufacturing processes, designs, code & standard compliance, installation efficiency, performance, to the energy consumption and the final disposal. We lead the deployment of renewable technology to achieve zero carbon. 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 every opportunity to reduce hazards, which can be anything that poses a threat to the safety and the health of workers or the environment. Removing 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.

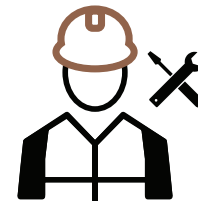


**STRONG.  
SUSTAINABLE.  
SOUTHWIRE.**

## 5 ATTRIBUTES OF SUSTAINABILITY

Many organizations around the world define sustainability differently as there are goals

and governance that are more important to a specific industry. This engineering whitepaper outlines five critical attributes which span the entire product life cycle and enable Southwire to innovate and to offer sustainable solutions. These products can be implemented in more than 10 diverse applications including data centers, utility, mass transit, factory automation, renewables, telecom, healthcare, automotive electric vehicles, ports & terminals, residential, and commercial buildings.



## INSTALLATION

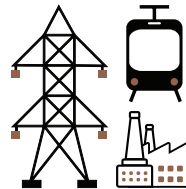
Once the wire and cable products are delivered to the job site, they will be unloaded, unreeled, pulled, bent, and laid at the final destination. Every step of the way could be labor-intensive, time-consuming, and error-prone to trigger severe physical damage to products and cause injuries if not handled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



## RAW MATERIALS

Sustainable materials can be achieved by creating 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. It can also be accomplished by adopting renewable energy, such as solar, to power raw material productions. 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 sustainable materials designated low-smoke and/or zero-halogen reduce 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.



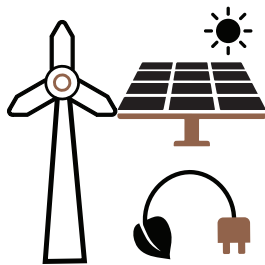
# 15 THINGS TO KNOW ABOUT

## SUSTAINABLE ATTRIBUTES AND PRODUCTS



### 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.



### SUSTAINABLE PRODUCTS

Southwire offers over 180 different sustainable products and 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. [CLICK HERE TO VIEW.](#)



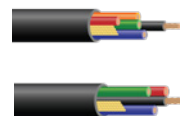
### MCAP<sup>®</sup> TYPE MC ALL PURPOSE CABLES

MCAP<sup>®</sup> Type MC Cable was invented based on electricians' feedback to reduce terminations per box and to declutter the wiring. Therefore, this is one of the best examples of a sustainable product due to user advantages during installation. These include simplifying 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<sup>®</sup> COILPAK<sup>™</sup> WIRE PAYOFF AND SIMpull BARREL<sup>™</sup> CABLE DRUM

A SIMpull<sup>®</sup> CoilPAK<sup>™</sup> Wire Payoff paired with a low-friction SIMpull THHN<sup>®</sup> wire is sustainable as it 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<sup>™</sup> 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<sup>™</sup> 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. These products to support EV are sustainable due to the reduction of greenhouse gas emissions from transportation.

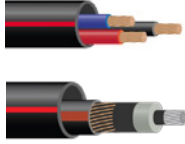


### LOW SMOKE ZERO HALOGEN (LSZH)

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 sustainable SOLONON<sup>®</sup> LSZH and SOLONONplus<sup>®</sup> 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.



# 15 THINGS TO KNOW ABOUT SUSTAINABLE ATTRIBUTES AND PRODUCTS



## 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 sustainable because it is safer than direct burying cables and it also extends life, lowers cable replacement frequencies, and shortens outage duration.



## TREE WIRE (COVERED CONDUCTOR)

Tree wires are sustainable alternatives compared to bare conductors as the added covering 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 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 bare their overhead counterparts.



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. **CLICK HERE TO VIEW.** We have a track record of successful custom engineering solutions and, not only meeting sustainable criteria, but also exceeding long-term electrical, thermal, mechanical, and environmental performance.



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# 17 INTERESTING FACTS THAT BOOST THE DEPLOYMENT OF CABLE-IN-CONDUIT (CIC)

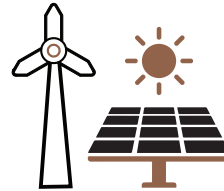
WRITTEN BY: Dr. Yuhsin Hawig, VP of Applications Engineering | Erika Akins, P.E., Applications Engineering Manager



## SIMPULL® CABLE-IN-CONDUIT (CIC)

Southwire's SIMpull® Cable-In-Conduit (CIC) solutions enhance jobsite

efficiency, reduce project costs, leverage sustainability, and more. This engineering whitepaper outlines 17 interesting facts about CIC including 8 market trends and 6 of the most frequently requested designs specified by end users in recent years. You can also learn more about the 20 engineering benefits of CIC by scanning the QR code.



## IRA & CLEAN ENERGY

The Inflation Reduction Act (IRA) of 2022, with provisions becoming effective in early 2023, is one of the most crucial climate

legislations in U.S. history, offering funding and incentives to advance the deployment of clean energy. IRA's \$370 billion in investments will lower energy costs for homes and small businesses, accelerate private investment in clean energy technology, reinforce supply chains, and create ample economic opportunities for American workers. Southwire's CIC products for renewable power generation are designed, certified, manufactured, and quality tested in the U.S. meeting Build America, Buy America Act (BABA) per the Infrastructure Investment & Jobs Act (IIJA).



## UTILITY'S STRATEGIC UNDERGROUNDING

Recent widespread power outages caused by natural disasters have expedited the hardening of our electrical grid. This can be accomplished in several ways, one of which includes

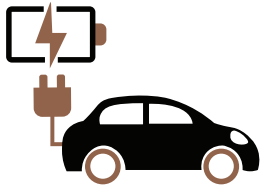
the conversion of critical overhead lines to a below grade network via CIC. Pulling a single reel containing cables protected by an impact-resistant high-density polyethylene (HDPE) duct saves labor, shortens installation time, and prevents field injuries due to an all-in-one material handling system. CIC is more robust than direct buried cables and can extend service life, lower cable replacement frequencies, and lessen outage interruptions. It is also a proven solution to mitigate wildfires.



## DOT PORTS & TERMINALS

In 2022, the U.S. Department of Transportation (DOT) announced more than \$700 million will be funded to support 41 projects in 22 states to improve port facilities through the Maritime Administration's Port Infrastructure Development

Program. This funding will benefit coastal seaports, Great Lakes ports, and inland river ports by improving the supply chain through increased port capacity and efficient operations. CIC is an approved product for DOT applications, including ports and terminals, and is more reliable due to the ruggedness of HDPE duct that prevents damage from accidental dig-ins. HDPE conduit also serves as a continuous physical barrier deterring copper theft and terrorist activities compared to direct buried power cables.



## EV INFRASTRUCTURE

With a heightened interest in clean energy coupled with the advancement of lithium battery production, electric vehicle (EV) adoption is occurring at a record speed. The rapid EV expansion

can also be attributed to the investment in grid infrastructure through Electrify America and the Bipartisan Infrastructure Law (BIL). Southwire's building wires, 600V underground service entrance, medium voltage cables, and more can be paired with CIC to power EV charging stations. These CIC assemblies to support EV infrastructure have gained much traction due to the elimination of separate packages and the avoidance of cable damage from onsite pulling.



## DOE'S GRID RESILIENCE PROGRAM

The Department of Energy (DOE)'s Grid Deployment Office is launching a \$10 billion Grid Resilience and Innovation Partnerships (GRIP) program as part of the

infrastructure law to enhance grid flexibility and the resiliency to fight against climate change and extreme weather events such as wildfires, hurricanes, storms, and flooding. Medium voltage cables in CIC are proven to be an excellent underground distribution solution to support the critical DOE initiative to modernize the electrical grid and reduce natural disaster impact.



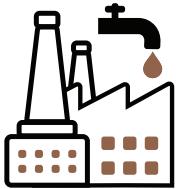
# 17 INTERESTING FACTS THAT BOOST THE DEPLOYMENT OF CABLE-IN-CONDUIT (CIC)



## MULTI-FAMILY HOMES

Our CIC products have won several Project of the Year awards from Plastic Pipe Institute (PPI). One of the largest CIC implementations, featuring 8,700

feet of CIC, was completed in Southern Texas to power temporary housing for oilfield workers. More than 1.5 miles of power cable in conduit were trenched and multiple runs of CIC laid next to each other in the hard Texas ground. Pulling cables during summer months in this area can be deadly, exposing the crews to over 100°F of dry heat. Having a single cable assembly eliminates the hours to pull cables through conduit therefore minimizing the heat exposure time and lowering the risk of heat strokes for workers.



## WASTEWATER TREATMENT & IRRIGATION

The Bipartisan Infrastructure Law (BIL) delivers more than \$50 billion to the U.S. Environmental Protection Agency (EPA) to improve drinking water,

wastewater, and stormwater infrastructure, which is the single largest federal investment in water ever implemented. Similar to irrigation sites, wastewater treatment plants (WWTP) typically have a more corrosive soil type compared to other commercial locations due to higher amounts of pesticides and fertilizers. CIC is produced with a high molecular weight HDPE resin, making it compatible with many common chemicals and aggressive soils. HDPE is hydrophobic, enabling the material to repel liquid or moisture. Schedule 80 HDPE duct, with the heaviest wall thickness, will not soften, degrade, or crack easily due to harsh environmental exposures in the ground.



## FUTURE PROOFING

As we continue to upgrade our nation's grid to accommodate the surge in electricity demand, it is essential to future proof the electrical wiring designs. We recommend

upsizing the HDPE conduit and incorporating a pull tape in CIC. This provides a tool to remove faulty or aged circuits safely and it creates the extra space to pull in larger replacement cables promptly. The high-strength flat tape, best known as muletape, is made of a cut-resistant polyester woven material and is printed with sequential footage for easy locating of circuit length. We offer several grades of pull tape with a tensile strength up to 2,500 lbs.



## XHHW-2

Southwire offers extensive SIMpull XHHW-2® cable options, with any color & size combination able to be bundled into a CIC assembly. HDPE conduit is made of a simple and pure formulation with a polyethylene-based resin. Both XHHW (crosslinked polyethylene) & HDPE (high-density polyethylene) are lead-free and naturally halogen-free with zero-acid gas emission compared to THHN/THWN pulled in a rigid PVC stick pipe. This is the most sustainable 600V/1kV wiring solution for any constructions requiring LEED building certifications, such as data centers. XHHW in CIC designs are also in great demand to power mega-scale EV infrastructure projects including level 2 and DC fast charging.



## THHN/THWN-2

Southwire's copper SIMpull THHN/THWN-2® cable in 20 different solid or striped color combinations from 14 AWG to 1,000 kcmil can be produced in a CIC system at our factory. Schedule 40 HDPE is one of the most requested conduit types, and it can enclose building wire products rated for either 75°C or 90°C. THHN/THWN-2 in CIC is gaining popularity for EV infrastructure, data centers, and commercial building applications due to its short lead time and cost-saving benefits.



## PV WIRES OR RHH-RHW-2

Copper or aluminum PV wires rated 600V or 2kV can be pre-bundled with or without an insulated green grounding conductor in a HDPE conduit prior to arriving at the solar farm. PV wires extruded with an XLPE insulation are dual marked as Type RHH-RHW-2 per UL-4703 and UL-44. One of the most common insulated equipment grounding conductor types is a green SIMpull XHHW-2® cable. Our patented low-friction technology allows the grounding conductor to be pulled out of the conduit efficiently to accelerate replacement in the future. Furthermore, extra PV wires can be incorporated into CIC as a backup power to shorten outage durations.



# 17 INTERESTING FACTS THAT BOOST THE DEPLOYMENT OF CABLE-IN-CONDUIT (CIC)



## 600V SECONDARY USE-2

Underground Service Entrance (USE-2) cables certified to UL-854, composed of 1 to 4 aluminum conductors, can be prefabricated into a CIC assembly. 600V secondary cables in conduit is the preferred wiring method to power multi-family homes, commercial buildings, and battery energy storage systems (BESS). The neutral conductor, full or reduced in size compared to the phase conductor, is typically marked with 3 yellow stripes for easy identification. The HDPE conduit can also be extruded with 3 continuous yellow stripes over the solid black color to signify the protective duct contains USE-2 phases with an insulated neutral.



## MV PRIMARY

Any MV cable rated 15, 25, to 35 kV designed with copper or aluminum conductors, TR-XLPE or EPR insulation, concentric neutrals or longitudinally-applied copper tape shield, and an overall LLDPE, XLPE, HDPE, or PP jacket can be preassembled into a flexible HDPE conduit at our factory. The continuous CIC length can be installed with fewer joints and without labor-intensive splicing. CIC can be installed via a Horizontal Directional Drilling (HDD), plowing, or trenching technique. HDD minimizes the construction impact with less interruptions to residential neighborhoods or commercial districts with heavy traffic. The Coefficient of Friction (CoF) of HDPE conduit can be 30% lower than PVC pipe due to a lubricant applied in advance at Southwire's CIC extrusion line.



## AIRPORT LIGHTING CABLE

Southwire's airport lighting cable meets FAA's AC 150/5345-7F entitled "Specification for L-824 Underground Electrical Cable for Airport Lighting Circuits". These 2.4kV or 5kV non-shielded copper products, commonly known as L-824 Type C cables, are extruded with 110 mil of XLP insulation and are frequently used to power the lighting circuits for runways and control systems. The CIC options with 1, 2, or 3 airport lighting cables, pre-assembled at the factory, offer enhanced public safety and are the most efficient high-volume installation for critical infrastructure such as ports and terminals.



Southwire

## CABLETECH SUPPORT™

Services

## CABLETECHSUPPORT™ SERVICES

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many whitepapers to help end users with the selection of products for the most challenging applications. Our Re<sup>3</sup>™ mission statement is based on sustainability: to Respond, Rectify, and Restore with



Reinforced, Resilient, and Reliable solutions. You can download engineering documents directly from the website by scanning the QR code:



Southwire™

## SPEED™

Services

## SOUTHWIRE SPEED™ SERVICES

Southwire SPEED™ Services focuses on expedited shipping

through our North American logistics footprint via our customer service centers and agent warehouses from coast to coast. We offer same day and next day shipping on stock items such as empty conduit and building wire in CIC. Delivering custom CIC products with the shortest lead time and below MOQ is one of the many dedicated



services celebrated by customers managing EV infrastructure, utility undergrounding, and DOT & DOE funded projects. You can learn more about Southwire SPEED™ Services by scanning the QR code:



Southwire®