WIRE & CABLE FOR SOLAR INFRASTRUCTURE

Power from the array to the grid.

Cable solutions for solar energy.
Long-term performance, site efficiency and coordinated supply.

01

Long-term performance

Cable solutions for the farm's electrical demands and operating environment.

02

Site efficiency

Reel planning and identification that help reduce handling and staging time.

03

Supply coordination

Coordinated cable releases aligned with the construction schedule.

Where Energy Meets Excellence™

BEYOND THE INITIAL CABLE PURCHASE

Value across the life of the farm.

A solar farm's cable network remains in service long after construction is complete. EdisonFlex connects product selection with practical supply support, helping projects address both long-term performance and installation efficiency.

01 / ENGINEERING

Cable for long-term service

RPVU90 photovoltaic wire and MV TR-XLPE cable serve the farm's DC and collection circuits. Conductor and construction options support the electrical and environmental demands of each project.

02 / CONSTRUCTION

Less handling on site

Project-specific reel plans, destination labels and grouped shipments help crews locate the right cable with less sorting, fewer repeat moves and less time spent staging material.

03 / OPERATION

Traceability beyond delivery

Product specifications, reel identification and batch records provide a documented reference for the supplied cable. This information supports project handover and later maintenance enquiries.

04 / ASSET PLANNING

Future cable requirements

Clear construction details give owners and project teams a starting point for replacement and expansion enquiries. We work with our distribution partners to help review future cable requirements.

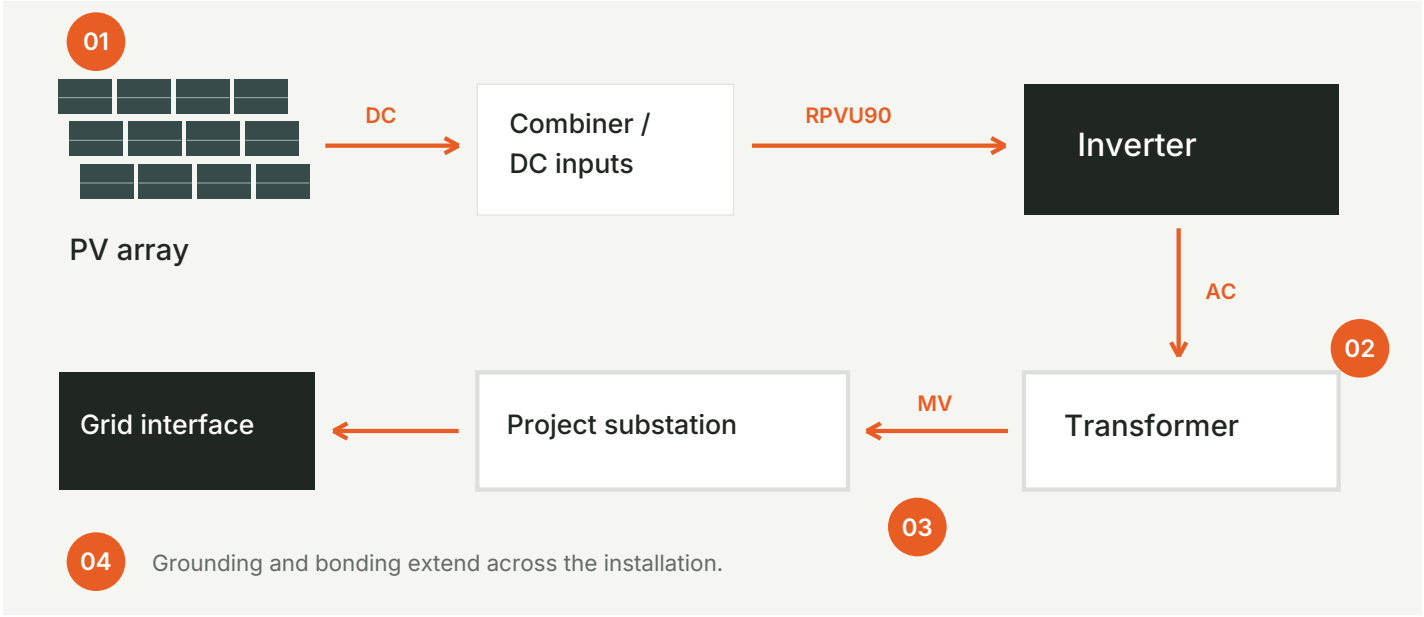
Value beyond the price of cable.

The right cable and a coordinated supply plan support efficient construction and long-term operation.

A CONNECTED POWER PATH

From the array to the grid.

EdisonFlex cable families serve distinct roles across the solar installation, from DC home runs and AC connections to medium-voltage collection, grounding and auxiliary controls.



01	Array DC circuits	RPVU90	DC home runs to combiner or inverter equipment.
02	AC and auxiliary power	ACWU90 / TECK90 / RW90	Selected to suit the inverter output, voltage and route.
03	MV collection	MV TR-XLPE	Transformer-to-collector and substation circuits.
04	Grounding and controls	Bare copper / TC / CIC-TC	Bonding networks and specified auxiliary controls.

Conceptual application map, not a wiring diagram. Topology varies by project; combiners may be integrated or omitted. Supporting cable families require project-specific approval. Grid interface equipment is outside this cable overview.

Explore the Solar Energy application page +

RPVU90 PHOTOVOLTAIC WIRE

Purpose-built for DC routes.

Copper and aluminum options support DC home runs in commercial and utility-scale solar systems, balancing electrical performance, installation requirements and cost.

Representative copper and aluminum constructions.

2000 V

XLPE insulation

Single conductor

Copper range	Aluminum range	Temperature rating
14 AWG-1000 kcmil	6 AWG-1000 kcmil	90°C wet/dry, as listed
Sunlight resistance	**Low-temperature marking**	**Referenced standard**
SR / SUN RES marking	-40°C	CSA C22.2 No. 271

Cable selection for long-term performance

Electrical performance

Conductor size, circuit loading, route length and thermal conditions influence voltage drop and operating losses across the DC network.

Installation compatibility

Copper and aluminum each require suitable sizing and compatible connections. Cable dimensions and reel configuration also shape handling and installation.

For exposed DC runs

Sunlight-resistant insulation supports outdoor routes. Suitable supports help protect against abrasion and movement.

For buried DC runs

Direct-burial-marked constructions support underground home runs, with soil and thermal conditions addressed in the design.

Published 2000 V catalog ranges. CSA certificate 80219416; burial and flame markings are construction-specific. The -40°C marking is not a field installation temperature. Final sizing follows the project design.

RPVU90 specifications and CSA certificate +

MV TR-XLPE

Connect generation to the grid.

Concentric-neutral primary cable connects inverter transformers with the collection network and project substation. The construction must match the system design.

5-46 kV

Copper or aluminum
TR-XLPE insulation

Conductor

Published family range: 2 AWG-1500 kcmil, copper or aluminum.

Insulation system

TR-XLPE with conductor and insulation shields, in voltage classes and insulation levels suited to the specified system.

Neutral and jacket

Concentric-neutral construction; LLDPE or PVC jacket as listed in the certification scope.

CONSTRUCTION CONSIDERATIONS

01 System voltage and grounding arrangement

02 100%, 133% or 173% insulation level, as applicable

03 Conductor size and thermal design inputs

04 Neutral size and fault-duty requirements

05 Jacket, water-blocking needs and route conditions

06 Termination, splice and pulling requirements

Reel lengths aligned with collector routes support efficient pulling. Suitable bend radii, pulling limits and compatible joints help protect cable integrity during installation and service.

CSA C68.5 / certificate 80222535. 90°C constructions as listed. Family ranges do not imply every size, voltage, insulation level or neutral combination is available.

MV product details and selected CableIQ specifications +

BEYOND THE DC AND MV CIRCUITS

Complete the site specification.

Armoured cable, building wire, bare copper and control cable support the wider solar installation, with constructions suited to the specified circuit and installation method.

ACWU90 / TECK90

Armoured power connections

ACWU90

TECK90

ACWU90: 600 / 1000 / 2000 V.
TECK90: 600 / 1000 V.
Copper or aluminum; XLPE insulation and interlocked armour with outer jacket. TECK90 also has an inner jacket.

CSA C22.2 No. 51 / No. 131

RW90 / RWU90

Building and auxiliary power

RW90: 600 / 1000 / 2000 V.
RWU90: 1000 V per certificate.
XLPE-insulated copper or aluminum conductors for specified building and auxiliary distribution circuits.

CSA C22.2 No. 38

Bare copper

Grounding and bonding

Solid or stranded bare copper supports the site grounding and bonding network, including connections across array structures, equipment and the project substation, as specified.

ASTM B3 / B8, as applicable

TC / CIC-TC

Auxiliary control circuits

600 V copper tray and control cable, with PVC / XLPE insulation and an overall PVC jacket, for specified auxiliary equipment and control-panel circuits.

Catalog: CSA No. 239 / UL 1277

Cable images are representative. Supporting families are application options, not interchangeable with RPVU90 or MV cable. Approvals are construction-specific. TC / CIC-TC serves control applications rather than dedicated communications circuits.

LESS HANDLING. BETTER COORDINATION.

Every reel. A clear destination.

EdisonFlex works with authorized distributors and project teams to align reel preparation, identification and delivery with the construction plan, helping reduce sorting, repeat handling and staging time.

01

Cable schedule

Approved constructions, lengths and destinations.

02

Reel preparation

Reel mapping, project labels and shipment groups.

03

Staged release

Delivery windows aligned with site readiness.

04

Site delivery

Reels grouped by zone or installation sequence.

DEPLOYMENT LABEL

ARRAY BLOCK B07

Destination	Inverter INV-07
Route	Trench DC-07-03
Reel sequence	07 of 18
Cable / length	Schedule reference
Traceability	Reel ID + batch

Preparation for the installation

Options include multi-chamber reel paralleling, triplex or twisted configurations and extruded longitudinal striping.

Less material waiting on site

Staged releases and coordinated drop-shipping can reduce laydown time and moves between storage locations.

Coordination as plans change

Revised cable quantities, reel allocations and shipment groups stay part of the conversation as site needs evolve.

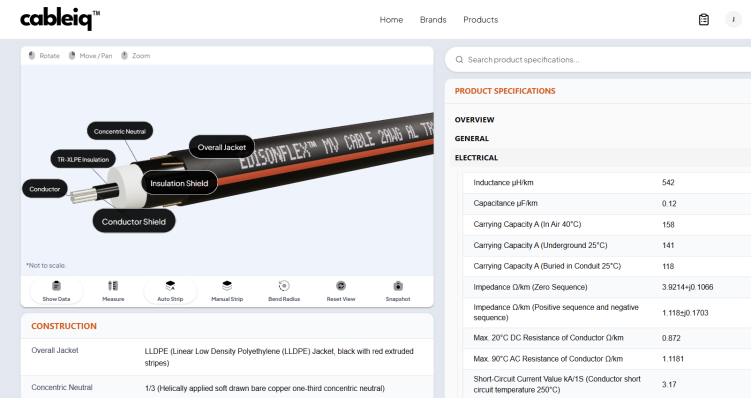
Preparation options, reel configurations, label content and delivery arrangements are agreed for each project, subject to product availability. Project labels complement standard compliance and traceability markings.

Project deployment + Supply coordination +

SPECIFICATION THROUGH HANDOVER

Confidence in every connection.

Product-specific documentation, traceable supply and responsible sourcing support the project from technical approval through delivery and asset handover.



CableIQ™

Selected RPVU90 and MV constructions, cable layers and available technical and procurement data in one digital view.

Explore digital specifications +

Features vary by product.

Technical approval support

Product specifications, certification records and testing documentation support review of the selected cable.

Traceability beyond delivery

Reel IDs, cable markings and batch records support receiving and handover alongside site commissioning records.

RESPONSIBLE SUPPLY

Environmental management

ISO 14001 frameworks guide environmental practices across our manufacturing network.

Responsible sourcing

Responsible raw material sourcing, labour practices and production controls support supply-chain accountability.

Project reporting

Environmental documentation supports procurement requirements. Coordinated logistics helps limit avoidable handling and waste.

Share your cable schedule, installation sequence and delivery requirements.

Move your project forward.

sales@edisonflex.com 1-800-585-3029

Available exclusively through authorized distributors.