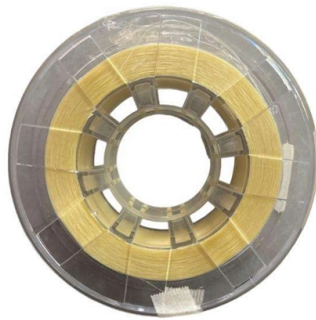


Table of Specifications and Models for Photovoltaic Cable Connectors



Overview

SOLAR We manufacture a wide spectrum of cables ranging from control cables for specialized applications to larger power cables for medium voltage applicati.

Key Takeaways

Photovoltaic cable connectors are available in multiple models such as SUNCLIX, PRC, VARIOCON, and TE Solar IPC, each designed for reliable DC connections, high voltage ratings, and easy installation.

Overview of P

V Connector Models	Manufacturer	Connector Model	Type	Voltage Rating	Current Rating	Key Features	Certifications
Phoenix Contact	SUNCLIX	DC Panel Connector	Up to 1500 V DC	20–30 A	Spring connection, tool-free, compact for tight spaces	IEC, UL	Phoenix Contact
Phoenix Contact	PRC	DC Connector	Up to 1000 V DC	16–25 A	Preassembled, fast-connection technology	IEC, UL	Phoenix Contact
Phoenix Contact	VARIOCON	AC/DC Hybrid Connector	Up to 1000 V DC / 250 V AC	16–32 A	Flexible for hybrid applications, modular design	IEC, ULTE	ConnectivitySolar IPC
Phoenix Contact	TE Solar IPC	DC Connector	Up to 1500 V DC	20–40 A	Pre-assembled tap cables, low contact resistance, easy installation	UL/cUL, IEC	TE Connectivity
Phoenix Contact	TE Solar IPC	DC Connector	Up to 1000 V DC	15–30 A	Precision-engineered, cost-effective, durable	UL/cUL, IEC	Key Features and Considerations

Installation Efficiency: SUNCLIX and TE Solar IPC connectors are preassembled or feature tool-free spring connections, reducing installation time and minimizing errors.



Voltage and Current Ratings: Most modern PV connectors support up to 1500 V DC and currents ranging from 16 A to 40 A, suitable for both residential and utility-scale solar installations. **Environmental Resistance:** Connectors are designed to withstand UV exposure, moisture, and temperature extremes, ensuring long-term reliability in outdoor PV systems. **Compatibility:** These connectors are compatible with halogen-free, cross-linked PV cables such as TOPSOLAR® H1Z2Z2-K and Nexans PV Type cables, rated for 1.

5 kV DC and suitable for wet, damp, or humid locations. **Standards Compliance:** Most connectors meet IEC, UL, and CSA standards, ensuring safety, performance, and regulatory compliance for global installations.

Recommended P

V Cable Pairings TOPSOLAR® PV H1Z2Z2-K: Flexible, halogen-free, 1.5 kV DC, compatible with all major PV connectors.

Nexans P

V Type Cable: Single-conductor, sunlight-resistant, flame-retardant, rated 1500 V DC/1000 V AC, suitable for module junction boxes and BOS integration.

Summary

When selecting PV connectors, consider voltage and current ratings, environmental resistance, installation method, and compatibility with PV cables. Models like SUNCLIX, PRC, VARIOCON, and TE Solar IPC provide reliable, certified solutions for both residential and large-scale solar projects, ensuring long-term system efficiency and safety.

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PV connector

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

