

# Price of High Voltage Optical Cable Connectors

## Article Overview

High voltage optical cable connectors for power systems typically range from several hundred to several thousand USD per unit, depending on voltage rating, current capacity, and customization.

## Overview of High Voltage Connectors

High voltage connectors are designed for safe transmission of high currents and voltages, often used in power systems, substations, renewable energy, and industrial applications. They can handle voltages from 10 kV up to 300 kV and currents from tens to hundreds of amperes . Common types include:

- o Single and multi-pin HV connectors for DC voltages up to 100 kV, with options for 30A or 80A current ratings .
- o SHV and MHV coaxial connectors for nuclear instrumentation and laboratory applications, featuring recessed contacts for safety .
- o Heavy-duty power connectors rated for 2 kV to 4 kV, suitable for industrial power systems .
- o Custom molded or cast connectors integrated into cable assemblies for voltages up to 300 kV, often used in X-ray, electron beam welding, and pulsed power systems .

## Factors Affecting Price

- o Voltage and Current Rating: Higher voltage and current ratings require more robust insulation, larger conductor cross-sections, and specialized materials, increasing cost.
- o Connector Type and Material: Silver-plated contacts, PTFE insulation, and nickel-plated housings are common in high-end connectors .
- o Assembly and Termination: Pre-assembled cable assemblies with molded or cast connectors are more expensive than individual connectors .
- o Environmental Protection: IP-rated, oil-tight, or hermetically sealed connectors for outdoor or harsh environments add to the price .
- o Customization: Custom designs for specific applications, such as particle physics or medical X-ray systems, can significantly increase cost .

## Typical Price Ranges

- o Standard HV connectors (10-100 kV, 30-80A): Approximately \$200-\$800 per unit depending on specifications .
- o Heavy-duty industrial connectors (2-4 kV): Around \$50-\$300 per unit for standard models .
- o High-end or custom cable assemblies (up to 300 kV): Can range from \$1,000 to \$5,000 or more per assembly, depending on voltage, length, and connector type .

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## Suppliers

- o Hivolt.de: Offers single/multi-pin HV connectors, cable assemblies, and custom solutions up to 300 kV .
- o HARTING Technology Group: Provides modular HV connectors and pre-assembled cables for power transmission, substations, and renewable energy systems .
- o Mouser Electronics: Stocks 2 kV and 4 kV heavy-duty power connectors with datasheets and inventory for immediate purchase .
- o ThomasNet: Lists multiple US and Canadian manufacturers of high voltage connectors, including custom and standard options for industrial and electrical applications . For precise pricing, it is recommended to contact suppliers directly with your voltage, current, and environmental requirements, as costs vary significantly with customization and assembly options.

High voltage connector range from 5 kV to 100 kV DC. Plug & socket assembly, crimping service on high quality with

High Voltage Cable Accessories Energy business unit headquarters situated in Ottobrunn (close to Munich), Germany The brands

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