

# Global High Voltage Interlock Loop System Components Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G8B3CB696ED4EN.html>

Date: June 2026

Pages: 182

Price: US\$ 3,480.00 (Single User License)

ID: G8B3CB696ED4EN

## Abstracts

According to our (Global Info Research) latest study, the global High Voltage Interlock Loop System Components market size was valued at US\$ 2601 million in 2025 and is forecast to a readjusted size of US\$ 4675 million by 2032 with a CAGR of 8.7% during review period.

The High Voltage Interlock Loop (HVIL) System Components market encompasses the safety-critical electrical and electronic components that form the monitoring circuit within electric vehicle (EV) and hybrid electric vehicle (HEV) high-voltage architectures. In 2025, global high voltage interlock loop system components production reached approximately 140,410K unit, with an average global market price of around USD 18 per unit. A factory gross profit of USD 5.04 per unit with 28% gross margin. A single line full machine capacity production is around 1,400K unit per line per year. The upstream is dependent on stable copper supply, engineering resin availability, precision stamping capacity, and automotive-grade molding capabilities. The downstream demand is concentrated in electrified transportation and high-voltage energy systems. In a modern 800V electric SUV, HVIL connectors are installed between the battery pack, inverter, onboard charger, power distribution unit, and electric motor. When high-voltage connector is disconnected, the HVIL circuit immediately signals the battery management system to isolate high voltage within milliseconds, preventing electrical shock. Mexico is leading supported by US manufacturing investment. China leads due to massive EV production scale and export growth.

This report is a detailed and comprehensive analysis for global High Voltage Interlock Loop System Components market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the

market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global High Voltage Interlock Loop System Components market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High Voltage Interlock Loop System Components market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High Voltage Interlock Loop System Components market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High Voltage Interlock Loop System Components market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

#### The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for High Voltage Interlock Loop System Components

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global High Voltage Interlock Loop System Components market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and

key developments. Key companies covered as a part of this study include TE Connectivity (US), Aptiv PLC (Ireland/US), Amphenol Corp (US), Molex (US), Rosenberger (Germany), Sumitomo Electric (Japan), Yazaki Corp (Japan), Hirose Electric (Japan), Staubli (Switzerland), Harting (Germany), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

High Voltage Interlock Loop System Components market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

HVIL Connectors

HVIL Terminals & Contacts

HVIL Harnesses & Dedicated Cables

HVIL Sensing & Monitoring Nodes

Others

### Market segment by Connection Interface Type

Wire to Wire Connectors

Wire to Device Connectors

In Line Connectors

Header Connectors

Others

#### Market segment by Voltage Architecture

400V Architecture

800V Architecture

>800V Ultra-High Voltage

48V Mild Hybrid Systems

Others

#### Market segment by Application

Battery Electric Vehicles (BEVs)

Plug in Hybrid Electric Vehicles (PHEVs)

Commercial EVs (Buses, Trucks)

Electric Light Commercial Vehicles (vans, LCVs)

Others

#### Major players covered

TE Connectivity (US)

Aptiv PLC (Ireland/US)

Amphenol Corp (US)

Molex (US)

Rosenberger (Germany)

Sumitomo Electric (Japan)

Yazaki Corp (Japan)

Hirose Electric (Japan)

Staubli (Switzerland)

Harting (Germany)

Phoenix Contact (Germany)

ITT Cannon (US)

JST Mfg (Japan)

BorgWarner/Delphi (US)

Hyundai Kefico (Korea)

Kyungshin Corp (Korea)

Luxshare-ICT (China)

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Zhejiang Yonggui (China)

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Shenzhen Renhotec (China)

ACES Group (Taiwan)

Korea Electric Terminal (Korea)

Suzhou Chilye (China)

Bada Optical (China)

Arida Machinery (China)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe High Voltage Interlock Loop System Components product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High Voltage Interlock Loop System Components, with price, sales quantity, revenue, and global market share of High Voltage Interlock Loop System Components from 2021 to 2026.

Chapter 3, the High Voltage Interlock Loop System Components competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed

emphatically by landscape contrast.

Chapter 4, the High Voltage Interlock Loop System Components breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and High Voltage Interlock Loop System Components market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of High Voltage Interlock Loop System Components.

Chapter 14 and 15, to describe High Voltage Interlock Loop System Components sales channel, distributors, customers, research findings and conclusion.

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