



Established in 2008

For Switchgear Market

OPTIMAL CONNECTIVITY

Connecting your Solutions

2024



Pushing Performance
Since 1945



OPTIMAL CONNECTIVITY LLC is certified according to ISO 9001:2015, ISO 14000:2015 and ISO 45001:2018



Designed for Heavy Duty Applications

HARTING connectors are known for the core competence in connecting and networking for **industrial power, signal and control applications**.

HARTING's connectivity technology provides **complete connector and installation concepts** for industrial infrastructures for INDUSTRY 4.0.

HARTING's latest installation technology sets new standards with connectors, such as the Han® series. Smart Connectivity connectors and devices are built as cyber-physical systems for connecting, e.g. a production site to the corporate cloud.



Industrial Power Connectors

Secure transmission of power, quick connection and safe disconnection of system modules, minimum downtime and maintenance free operation paired with compact and space saving connections between units are key features of HARTING connectors.

OPTIMAL CONNECTIVITY **manufactures customized cabling solutions** for **power plants, metal processing industries, airports and Oil&Gas** market. HARTING connectors are leading in technology and safety.



Industrial Signal & Data Connectors

Error-less Exchange of data and signals, EMC and EMI protection, easy and fast termination together with flexible connector boots for RJ45 connectors are the key advantages of HARTING data connectors.

OPTIMAL CONNECTIVITY provides standard lengths cable assemblies and also offers **manufacturing customized cabling solutions** for applications in rugged environment, power distribution, data centers etc. using also Ethernet Cat.6/7 data cable with RJ45 and M12 connectors.

Fiberoptic Cable Assemblies

Using HARTING connectors and cables, we are manufacturing cable assemblies designed for use in environments with special and mostly challenging environments.

Resistance against **heat, fire, mechanical stress, vibration, bending, sea water, oil, fluids** are the typical requirements we are addressing with our **Solution Specific Product Designs**.

Thanks to **short manufacturing times** we can address almost every Single-mode and Multi-mode assembly within days.





Profibus SCADA Cable Assemblies

HARTING connectors and cables are key elements in process automation and process control with **SCADA**, **Profibus**, etc. An industrial automation system, error-free communication between PLC, SCADA, HMI or any other automation devices is essential to pass information. The Process field bus, Profibus, is used for real-time data exchange. Profibus can perform complex communication task is best suitable for fast and time-critical applications.

Profibus PA and **Profibus DP**, the most used protocols are designed replace previous systems such as 4-20mA in process automation allowing savings in cable, asset management, be exchangeable without configuration.

Active Equipment - Media Converter

Signal Transmission and **Signal Amplification** are important for safe data communication, hence we design, build new or modify existing equipment in order to achieve the required features like **high speed communication over larger distances, converting signals, improving S/N ratio**. Our Orion series products include a unique range of SHDSL industrial grade Modems & Repeaters.

RFID Readers and RFID Tags

Our ISO 18000-6c **RFID** (Radio Frequency Identification) systems can identify tagged devices such as metal containers, machines, tools, trains, concrete parts or other assets in most challenging and harsh industrial environment. We provide Class 1 Generation 2 (C1G2) RFID readers which are following UHF RFID (860–960 MHz) protocol for communication acc. EPCGLOBAL/GS1 GEN2 standard.

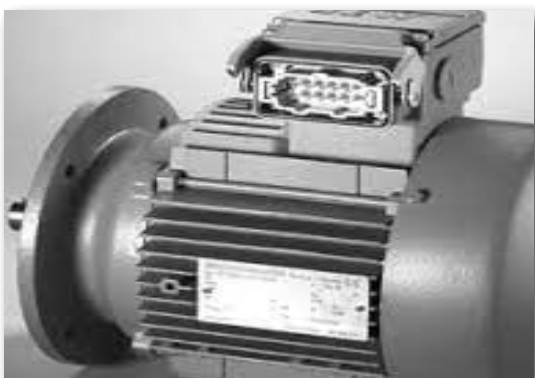
We also provide **in-metal, on-metal, robust, high-temperature UHF RFID** transponders, also called RFID tags, for stationary and mobile RFID readers together with complete systems which can be integrated with process control systems. RFID tags can also be manufactured to meet individual requirement of shape and fixation methods.

Custom-Design Solutions

In industrial communication, like for mother/child battery-powered conveyor robots, the performance of antennas is critical for the functioning of the entire system.

We design and build customer specific solutions including **antennas** which are combining mechanical, electrical and radio signal propagation features.

We create antennas which are often **designed-to-project** regarding frequency bands, radiation pattern, near field and far field coverage, polarization, antenna gain, connectivity and housing requirements.





How to find our office:



GPS coordinates: N 25° 10' 53.00" E 55° 22' 46.00"

Makani Code: 40R CN 36679 86045



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