

Engineered for Extremes: HARTING Connectors for Outdoor and High-Vibration Environments

HARTING industrial connectors provide reliable power, signal, and data transmission in harsh environments where standard components would fail. Correct hood and housing material selection, coupled with sophisticated sealing and locking mechanisms, are primary for longevity against the elements, particularly vibration and mechanical shock.

ROBUST HOUSING MATERIALS

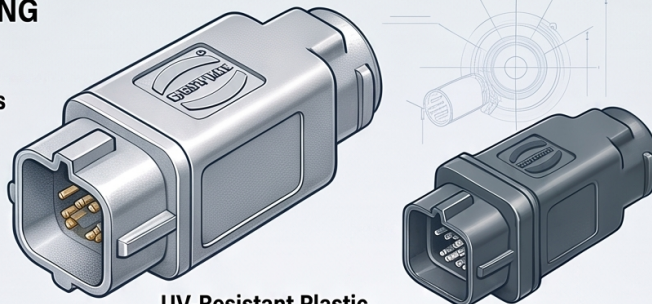
Die-cast Aluminium for Mechanical Stress

Aluminium is the most common material for industrial housings, using aluminium alloys to provide high-strength protection against physical impacts.



Protective Finishing and Coatings

Metal connectors are supplied with specialised coatings chosen based on the environmental function, such as nickel for robust electro-magnetic compatibility.



UV-Resistant Plastic for Outdoor Versatility

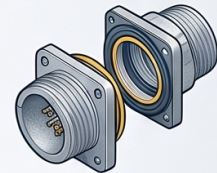
Han-Eco housings manufactured from high-performance plastomers offer corrosion resistance, weight reduction, and UV stability for outdoor applications.

ENVIRONMENTAL SEALING AND IP RATINGS



IP89K: Protection Against High-Pressure Jets

The IP88K rating ensures that water jets from high-pressure cleaners cannot penetrate the housing, a standard feature for the Han F+B series.



Dual-Action Gasket Systems

Reliable sealing is achieved through profile gaskets between the bulkhead and panel, and flange gaskets between mating connectors.



Protection Against Solids and Liquids

IP ratings according to DIN EN 60529 classify the degree of protection against ingress of solid foreign matter and harmful water entry.

HAN HPR FOR HARSH ENVIRONMENTS

The Han HPR series is specifically designed for harsh outdoor environments, providing the highest levels of protection and durability.

Superior EMC Shielding Capacity

Han HPR housings utilise a labyrinth structure and extensive contact overlapping to achieve high screening attenuation against interference.

Enhanced Attenuation with EMC Glands

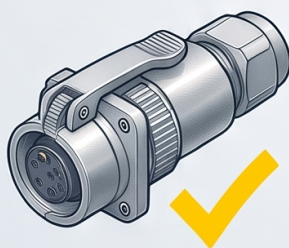
Using an EMC cable gland to connect the cable screen to the HPR housing provides an additional 5–15dB of screening attenuation.



Protective Finishing for Outdoor Versatility

Han-Eco housings manufactured from high-performance » offer corrosion resistance, weight reduction, and UV stability for outdoor applications.

LOCKING SYSTEMS FOR HIGH VIBRATION

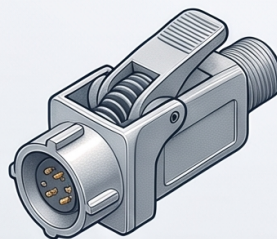


Screw Locking for Severe Vibration

- Screw locking is required for housings exposed to severe

Authorised Access and Security

- Because screw locking requires a tool for operation, it prevents unauthorised tampering and unintentional disconnection in public or high-stress areas.



Easy Lock Spring-Levered Locks

For roll applications like carriage-to-carriage connections, the Easy Lock system uses internal springs to reduce shock stress on the seals.

LOCKING SYSTEM SELECTION GUIDE



Severe Vibration / Shock



High Pressure / Submerged



Potential Vandalism



Frequent Mating Cycles



Space-Saving Design



Screw Locking (Mandatory)



Screw Locking (High Requirement)



Easy Lock Lever (High Requirement)



Central Locking Lever (Moderate Requirement)