



Pushing Performance  
Since 1945



PEOPLE. POWER. PARTNERSHIP.

## HARTING for shipbuilding industry

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## 1 Open Deck



Han® HPR connectors for power supply

Han® M – data and power connection for open deck panel

F.O. connector in Han-INOX® housing

### Open deck critical environment requirements:

- a) Temperature
- b) Water
- c) Salt

### HARTING product characteristics for deck and mast:

- housings with corrosion resistant coating or stainless steel
- fast and simple wiring of modular subsections and equipment on deck
- electrical connection of bulker hatch covers
- connectors for antennas
- ready to mate cabling solutions

## 2 Wheelhouse



Ha-VIS eCon 3000

har-speed M12

RJ45 Industrial

Ha-VIS eCon 2000

Han® EMC

D-Sub InduCom

Han® AV

har-port

Shielded connectors on control unit

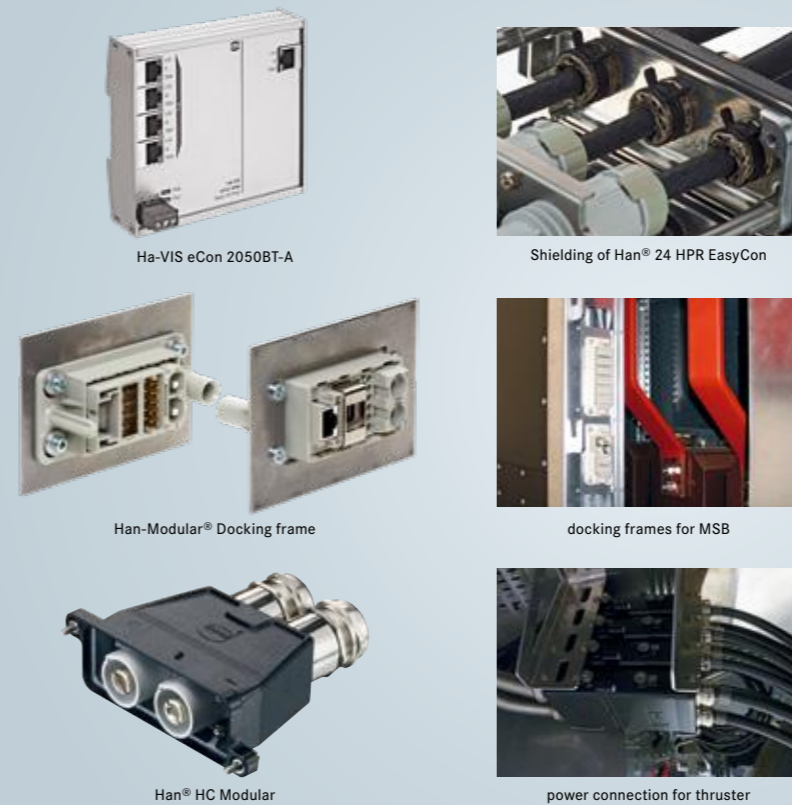
### Wheelhouse critical environment requirements:

- a) Electronic environment
- b) Magnetic compass
- c) Sensitive data

### HARTING product characteristics for wheelhouse consoles:

- EMC connector housing
- Fiber-optical connectors
- Choise of connectors for NMEA 0183 and NMEA 2000 interfaces
- Industrial type ethernet connectors (RJ45)
- Push-Pull solutions with f.o. and RJ45 inserts
- screened bus connectors (Inducom)
- customized pluggable rack systems with reduction of wiring through backplanes

## 3 Engine Room



Ha-VIS eCon 2050BT-A

Shielding of Han® 24 HPR EasyCon

Han-Modular® Docking frame

Han® HC Modular

docking frames for MSB

power connection for thruster

### Engine room critical environment requirements:

- a) Vibration
- b) Temperature
- c) Oil

### HARTING product characteristics for engine room and MSB:

- vibration proof and EMC motor connectors up to 650 A
- biggest portfolio of housings and inserts (from f.o. until 200 A module) for fast connection of control units and distribution boxes
- modular docking frames with draw-out type MCC for power and signal modules combination
- Ha-VIS eCon unmanaged ethernet switch portfolio with robust design for harsh environment

## 4 Cabins



Han-Eco®

Han-Modular® ECO

Han-Power® T

Han-Port® data connectors

Han-Port® plug sockets

cabin distribution

cabin lamp with Han 3A®

### Cabin critical environment requirements:

- a) fast
- b) simple
- c) low smoke/fire resistant

### HARTING product characteristics for passenger and crew cabins:

- connection outlets for office use
- easy wiring with Han-Modular® connector (combination of power, data and signal contacts in one connector)
- reliable electronical connectors for fire detectors, climate control units and public alarm systems
- light weight plastic housing for e.g. cabin lamps
- complex uniform cabin distribution box with a backplane as a basis



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