

# FLEXIBLE HARNESS WIRING SYSTEMS

## Flexible Harness Wiring Systems



Our class-leading range of pre-cabled flexible harnesses meet your every requirement. CMR designs and manufactures a variety of flexible wiring system solutions to meet your application, environment and performance expectations. We service a range of blue-chip end customers including OEMs in the marine, locomotive and high horsepower engine and genset markets.

## // Description

Your engines and equipment require a wide range of pre-cabled flexible wiring solutions.

CMR advanced flexible harness capabilities include:

- Heat shrink
- Braided
- Conduit

CMR's flexible harness manufacture process applies automated cut, strip and termination alongside best-in-class build-board assembly and test facilities, supported by Cirris test software. The sleeving method is specified dependant on the customer specification and CMR recommend the best solution considering operating environment, design for manufacture and cost.

CMR's e plug and play flexible harness systems enable efficient assembly and can be supplied with bespoke mounting brackets and p-clips to ensure efficient assembly at the customer production facility.

Typical materials selected and used for our flexible harness system include the following.

Sleeving and Conduit:

- Harnessflex - conduit and transitions
- Schlemer - conduit
- Rayfast - Heatshrink sleeving and transitions capable of up to 200°C
- Nomex - High temperature sleeving

Electrical information:

- Internal wiring is designed according to each application
- The electrical connections are made through connectors specifically selected for the application and environment

**Industrial Engine Wiring Systems - Flexible Wiring Systems - Flexible Harness Wiring Systems**

**// Specifications**

- Operating Temperature Range ..... Up to 200°C
- Electrical Connection .....
  - Deutsch - Connectors and terminals, including heavy duty range for harsh environments
  - PEI - Connectors and Terminals, military standard components
  - Bosch - Connectors
  - Tyco – Connectors and Terminals
- Insulation ..... Capable of achieving IP66

**// Applications**

DEFENSE - ARMY	OIL & GAS - ONSHORE
DEFENSE - NAVY	POWER - POWER PLANT
INDUSTRY & UTILITIES - PROCESS INDUSTRIES	POWER - ENGINES & GENSETS
INDUSTRY & UTILITIES - HAZARDOUS & MACHINERY	TRANSPORTATION - LAND
OIL & GAS - OFFSHORE	TRANSPORTATION - MARINE

**// Markets**

DEFENSE	POWER
INDUSTRY & UTILITIES	TRANSPORTATION
OIL & GAS	

\* Pictures, drawings and technical specifications are non-contractual and may be subject to technical modification

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