

RIGID PIPEHARNESS™ - COMPLEX & MULTI-SERVICE CAW, CPW, & MSP

Pipe - Complex & Multi-Service



Our PIPEHarness™ systems, first patented in 1972, set the global industry standard for robustness. Enclosed within aluminium profiles, using typical 60mm x 60mm extrusions, the CMR PIPEHarness™ protects your critical wiring on the engine platform and internally, within the crank case.

// Description

Your ability to perform is based on a need for absolute reliability.

Typical applications of the Complex and Multi-Service PIPEHarness™ range includes:

- Connection of sensors used for monitoring diesel and gas engines
- Transmission of measuring signals

This rigid PIPEharnesses™ is designed for performing the electrical connections between:

- each coil and the general input to which the cable from the distributor is connected
- each temperature sensor and the general output to which the extension cable is connected
- Each pipe is designed according to the dimensions and the timing of various engine types. The mechanical installation is thus much simplified
- Easy maintenance (connections through connectors)

Main Benefits:

- Complex pipes carrying out the functions of a measurement and ignition pipe and those of a multi-service pipe
- Pipes allow for the transmission of all low-voltage and low-level signals.
- Fool-proof and pre-wired system, designed to reduce wiring operations on the engine. No special installation skill required (plug and play)
- The pipe is fitted only with 2 or 3 brackets
- Simplified engine cabling
- Reduced costs of cabling
- Installation and replacement of sensors in minimum time
- Impossibility of inversion when connecting sensor
- Standardization of sensors (cable length) and optimization of spare parts stocks.

All CMR PIPEHarness™ products are produced using automated cut, strip and termination, build board assembly with best in class test

Industrial Engine Wiring Systems - Complex & Multi-Service - Pipe - Complex & Multi-Service

systems support by Cirris test software.

// Specifications

- Operating Temperature Range Min -50°C / Max 85°C (100 hours at 125°C)
- Electrical Connection
 - Internal wiring is designed according to each application. For thermocouples, it can be either common negative or wire to wire. A PT 100 sensor can be installed for the cold junction temperature compensation
 - Each base is wired to the main male connector with high temperature PVC insulated cable
 - The pipe is fitted with dispensed polyurethane, for perfect insulation, sealing and vibration protection
 - Electrical connections can be customer specific or standard JAEGER connectors. For NATO application the connectors are from SOURIAU or JUPITER
- Weight Usually 3.2 Kg/meter
- Length Up to 6 metres
- Width Usually 60x60mm, 30x30mm, 50x50mm
- Other Dimensions Up to 90mm x 90mm
- Insulation IP54 or 64
- Other Features
 - The pipes can be considered as mechanical parts offering the corresponding savings, allowing sensors with identical extension cord lengths
 - Mounted with one bracket, approximately every 1.5 metres

// 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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