

High Fibre

Working with an OEM specializing in the manufacturing and fabrication of fibre optic connectivity products and systems. Customer services a variety of industries, including Avionics, Industrial and Medical.



Project Brief

To design and engineer Ex certified enclosures for fibre optic communication and termination in marine and offshore applications. The environment at the installation site is rated Zone 1. This is another part of the project we covered earlier as “Well Connected”

Challenges

Develop an enclosure design, based on an original general purpose configuration, that could be certified for hazardous location use.

Internal components, which included fibre optic connection and transmission equipment, did not need to be Ex rated but had to meet requirements in IEC 60079-28 codes and standards (Protection of equipment and transmissions using optical radiation)

Epoxy coating on interior and exterior surfaces of the enclosures to ensure protection against conditions of an offshore environment (i.e., salt air, sea spray, wind, etc).

Outcome

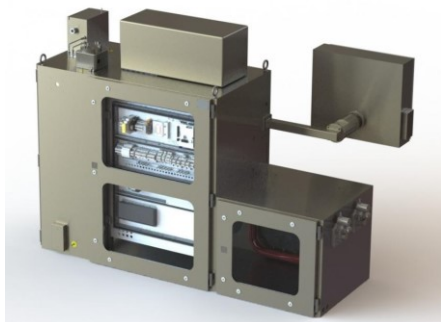
IEC Ex approved, IP66 enclosure with internal chassis plates for fibre optic components.

Environmental epoxy coating as per project specifications.

IECEx Ex op pr (Optical Radiation) certification for Zone 1

Expo Products and Services

Custom Enclosure Service



With Expo's fully custom process, a dedicated engineer will work with you to develop exactly what you need and agree on a detailed budget and project timeline with milestones. As this is a highly flexible service, we can adapt the plan if your project requirements change.

[Click here](#) for more information.

Design and Consultancy services

Expo Technologies' team of consultants and certification engineers have the experience and knowledge to support our customers through the certification process for equipment to be used in Hazardous Areas.

From concept design through to maintenance, Expo Technologies works with you to reduce the risks and accelerate your entry into global markets.

[Click here](#) for more information.



Certification consultancy

Our Certification Engineer works with the customer through a standard, well-proven process to make sure the design is compliant with the Expo's Schedule of Limitations (SoL), ensuring successful project completion. The SoL defines the scope of what can be certified under Expo's populated enclosure certificate and is broad enough to cover most applications.

[Click here](#) for more information.