

SUBSEA SALES AND ENGINEERING PTE. LTD.

Subsea Cable Assemblies

Reliable Power. Secure Connectivity. Engineered for the Deep.

Product Brochure & Technical Datasheet | Manufacturer: SSAEPL | Singapore

Who We Are

Subsea Sales and Engineering Pte. Ltd. (SSAEPL) is a Singapore-based technology and engineering solutions provider delivering innovative products and integrated systems across the marine, land and air domains.

Our expertise spans advanced robotics, autonomous systems, AI-powered inspection, digital transformation and lifecycle engineering support — backed by partnerships with world-class technology providers.

MARINE

ROVs, AUVs, survey

LAND

Robotics, monitoring

AIR

UAVs, LiDAR,
thermal



Integrated Land, Air & Sea Technologies

Marine Technologies

- Work class ROV systems
- Inspection ROVs
- AUVs
- Hydrographic survey systems
- Underwater acoustics
- AI underwater inspection

Land Technologies

- Ground inspection robots
- Pipeline inspection systems
- AI vision detection
- Thermal imaging
- Infrastructure monitoring
- Industrial automation

Air Technologies

- Industrial drones (UAVs)
- Aerial mapping & LiDAR
- Thermal drone inspection
- Powerline inspection
- Solar farm inspection
- Security surveillance

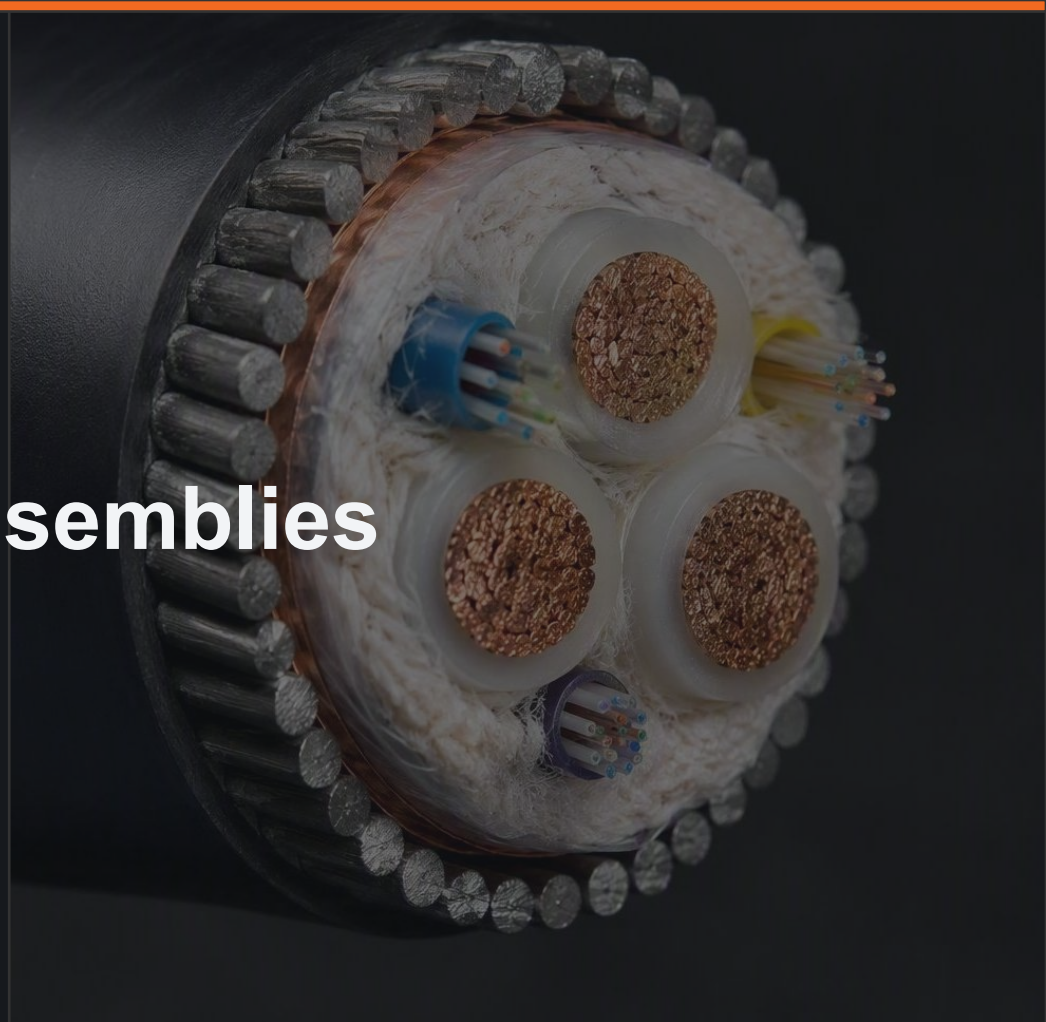
AI & Digital Technologies — Cross-Domain Intelligence Platform

Computer vision AI · Automatic defect detection · Predictive maintenance · Real-time monitoring · Digital twin · Automated reporting

PRODUCT DATASHEET

Subsea Cable Assemblies

Reliable connectivity for mission-critical underwater operations. SSAEPL supplies high-performance cable assemblies engineered for dependable power, signal and data transmission in harsh underwater environments.



Product Features

- Custom-engineered cable assemblies
- Electrical, fibre optic and hybrid solutions
- High-pressure, water-blocked construction
- Corrosion-resistant marine materials
- Oil and chemical-resistant outer jackets

- High-flex designs for dynamic applications
- Over-moulded terminations for durability
- Wet-mate and dry-mate connector compatibility
- Factory-tested for electrical & mechanical integrity
- Built to customer-specific requirements

IP68

Subsea-rated sealing

HV / LV

Power transmission

100%

Factory tested

Product Range

Electrical Cable Assemblies

- Power cables
- Control cables
- Instrumentation cables
- Sensor interface cables

Fibre Optic Cable Assemblies

- Single-mode fibre
- Multi-mode fibre
- High-speed data transmission
- Real-time video communication

Hybrid Cable Assemblies

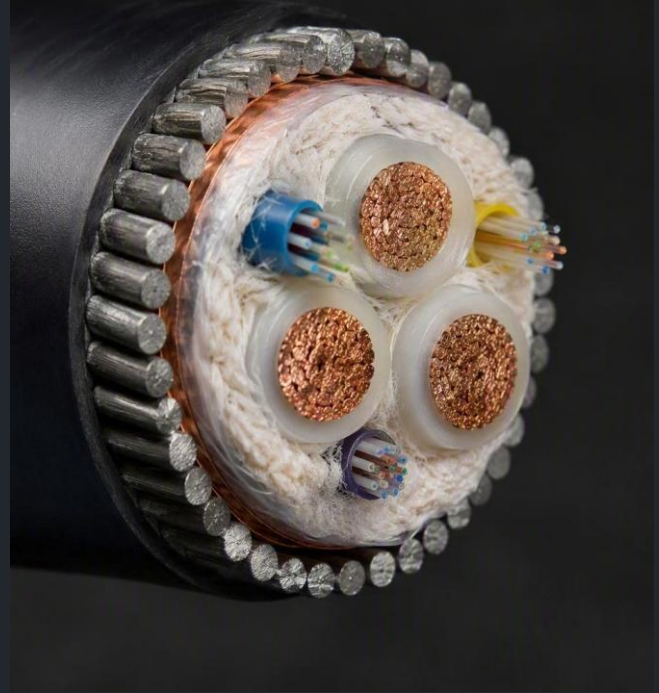
- Combined power and fibre optic
- Power, signal & comms in one cable
- Ideal for ROVs and AUVs
- Subsea instrumentation

Custom Harnesses

- Junction box assemblies
- Penetrator cable assemblies
- Sensor cable harnesses
- Equipment interface cables

Technical Capabilities

- High-voltage and low-voltage power transmission
- High-speed Ethernet and fibre optic communications
- Low-noise signal transmission
- High-pressure subsea operation
- Dynamic and static installation options
- Custom lengths and connector configurations
- Integrated strain relief and bend protection
- IP68 and subsea-rated sealing solutions



Quality Assurance



Every cable assembly undergoes comprehensive quality control and testing before despatch.

- Electrical continuity testing
- Insulation resistance testing
- High-voltage (Hi-Pot) testing
- Fibre optic attenuation testing
- Pressure and leak testing
- Mechanical pull testing
- Visual inspection and documentation

Applications

Subsea Vehicles

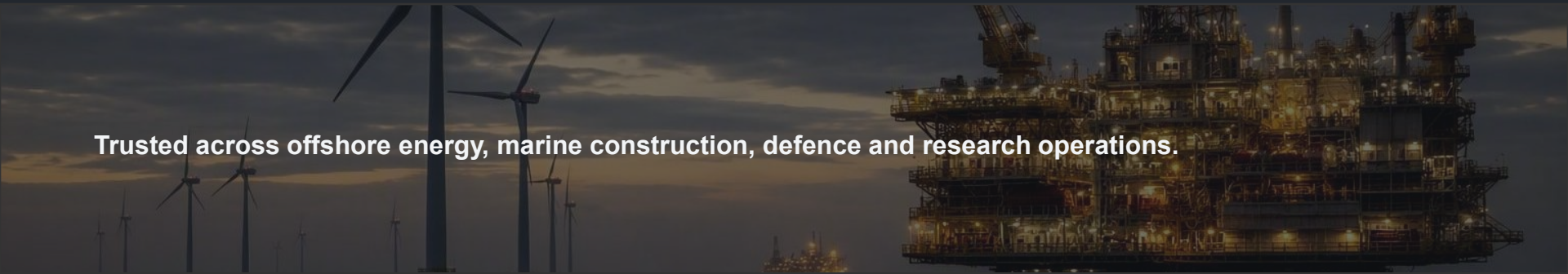
- Work class ROV systems
- Observation ROVs
- AUVs
- Towed survey systems

Energy & Offshore

- Offshore oil & gas
- Offshore wind farms
- Subsea production systems
- Ports & harbour infrastructure

Science & Defence

- Oceanographic research
- Marine defence systems
- Underwater monitoring networks
- Aquaculture monitoring



Trusted across offshore energy, marine construction, defence and research operations.

Industries & Services

Industries We Serve

- Offshore oil & gas
- Offshore wind & renewable energy
- Marine construction
- Ports & harbours
- Defence & homeland security
- Government agencies
- Mining, utilities & infrastructure
- Water & wastewater
- Aquaculture
- Research & academia

Our Services

- Technology consulting
- Engineering & system integration
- Equipment supply
- Installation & commissioning
- Operations & maintenance
- Technical training
- Lifecycle support
- Spare parts management
- Project management
- 24/7 technical support

Why Choose SSAEPL

Custom-Designed

Solutions engineered around your specific application.

Quality Materials

High-grade materials and manufacturing standards.

Broad Compatibility

Works with leading subsea connectors and equipment.

Proven Reliability

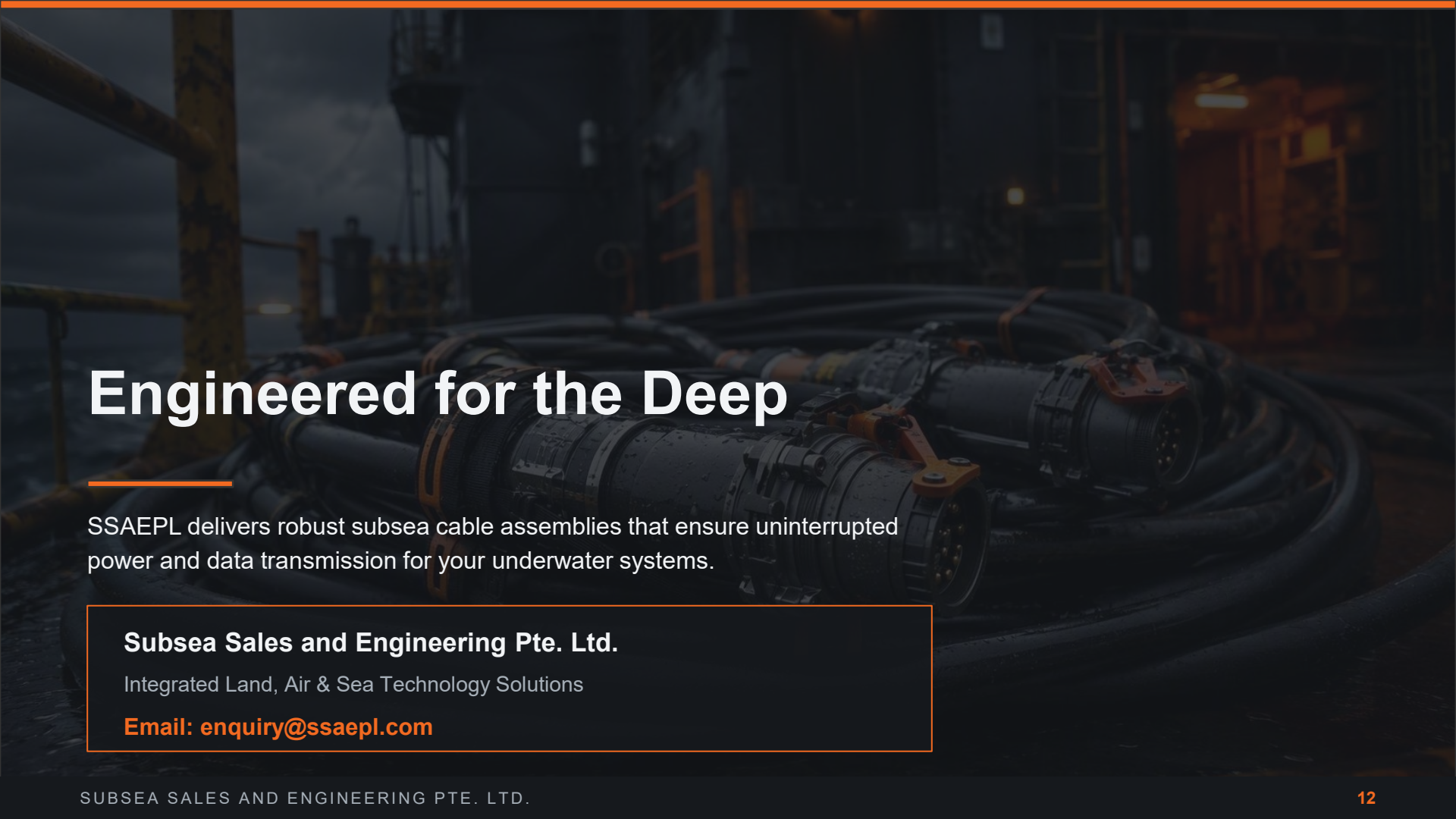
Dependable performance in demanding offshore conditions.

End-to-End Support

Technical support from design through installation.

Fast Turnaround

Rapid prototype and production delivery.



Engineered for the Deep

SSAEPL delivers robust subsea cable assemblies that ensure uninterrupted power and data transmission for your underwater systems.

Subsea Sales and Engineering Pte. Ltd.

Integrated Land, Air & Sea Technology Solutions

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