

SeaConnect™

Diver-Mate Fibre Optic Connector

RMSpumptools SeaConnect™ Optical connectors provide a wet-mate connection for all subsea monitoring and control requirements including Subsea Trees, production control systems and Renewable Energy.

Specifications

Optical Specification

Number of Contacts:	6 - with any combination of single mode or multi-mode
Contact Method:	APC Ferrule
Insertion Loss:	≤ 0.5 dB Single Mode (1310nm, 1550nm & 1625nm) ≤ 1.0 dB Multi-mode (850nm & 1300nm)
Return Loss:	≤ -45 dB Single Mode ≤ -30 dB Multi-mode
Max Optical Crosstalk:	≤ -60 dB Single Mode ≤ -60 dB Multi-mode
Optical Capacity:	up to 6 off MM / SM lines

General Specification

Operating Temperature:	-5°C to 60°C
Working Depth:	4,000 metres
Design Life:	30 years

Materials

Housing:	316 Stainless Steel or Super Duplex
Insulation:	PEEK
Elastomers:	Silicone, HNBR, Nitrile
Optical Ferrule:	PPS

Termination Options

Oil-filled Hose

1/2"NB oil filled hose termination.
Pressure compensating hose.

Field Installable Termination Assembly (FITA) Gland

Pressure compensating termination assembly onto cable.
Oil-Filled termination chamber.
Can be terminated in customer facilities.

Qualification Testing

Insertion Loss
Return Loss
Functional Mate / De-mate
Turbid Tank
Hydrostatic Pressure
Shock
Vibration
Thermal
Function - cold conditions
Life Cycle
Misalignment

Key Performance Features

Patented Latching Device
Seawater Protected Ferrules on both Male & Female
No Dummy Connectors required for protection when unmated in Subsea Environments
Fluid Filled Pressure Balanced Design



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