OE46M/30M Series Underwater Optical and Electrical Connector

Watertight Connectors

The OE46M/30M family provides optical and electrical connections for subsea instrumentation. The mating interface and contact configuration must match both cable assemblies.



Technical specifications

Contact resistance (mΩ)	<10
Current rating per contact (A)	≤40
Insertion loss (dB)	1.2 Standard / 0.6 Low-loss (1310 nm); 1.0 Standard / 0.5 Low-loss (1550 nm)
Mating life	>500 cycles (O-ring: 100 cycles)
Factory test pressure	Standard radial pressure: 30 MPa; customizable up to 60 MPa radial pressure; optional longitudinal water blocking for the receptacle
Operating temperature (°C)	-45 to +90
Connector shell	Standard: 316L stainless steel; TC4 titanium alloy available on request