

Murene



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Subsea oil filled pressure compensated system

The hose conduit is specially designed as 1st barrier and mechanical protection for copper and fibre optical conductors. The hose is internally pressurized with a dielectric fluid. Between the two layers of rubber there is an axial layer of aramid fibre to absorb longitudinal pull load during handling and a cross woven layer of nylon/polyester to provide the pressure compensation properties of the hose.

Design life is >30 years subsea at over 3500meters water depth. The Murene hose is designed to withstand the extreme snag loads it can be exposed to when handled by ROV's.

The Murene system will normally have a swaged fitting at both ends with the industry standard Mk2 interface. Further, the system is modular, comprising split boxes with multiple inlets/outlets.

Standard material is titanium grade 2. Other materials can be supplied on request.

Murene Specifications

Model	DN 12	DN 20
Applicable standards	Statoil TR1229 Ver. 5 / TR1233 Ver. 4 / TR2390 Ver. 2	
Nominal ID	13mm	19 mm
Nominal OD	25 mm	32 mm
Material	Inner liner: NBR, Cover: NVC/SBR	
Colour	Inner liner: Black Cover: Orange	
Marking	Model, prod. quarter, batch number	
Work pressure	10 bar	
Burst pressure	>90 bar	
Elongation at 10 bar	+/-2%, typical <1% at 2500N tension	
Volumetric expansion	>10% at 10 bar internal pressure.	
Storage temperature	-40 to +60 °C (-40 to 140 °F)	
Work temperature	-5 to +40 °C (23 to 104 °F)	
Bend radius	100mm	
Compatibility	Inner liner: silicone, synthetic hydraulic oil Cover: seawater	
End terminations	Titanium gr. 2 Mk2 fittings, straight, 90 deg. bend or 45 deg. bend (bends not welded)	
Breakouts	Split boxes in Titanium gr. 2 with 1-4 inlets and 1-4 outlets. NBR/NR splitters	