Jumper systems

PBOF electrical and optical flying leads

Highlights

- Field proven technology.
- Qualified to API standards
- In-house Engineering and Assembly
- Multiple configurations.

ELFO

- Located in Kongsberg, Norway.
- Small, flexible, and innovative.
- High competence on optical and electrical distribution systems.

ELFO Subsea has the knowledge, experience, and manufacturing facilities to provide various configurations of Subsea Jumpers.

With tailored processes and production facilities we can make quick turnaround on prototyping and production in accordance with your needs. Our specialty is custom design, low volume production, refurbishments, installation, and commissioning. All phases through sales, project engineering, production and delivery are standardized and in accordance with applicable industry standards.

With years of experience with this type of technology, we are proud to deliverer ELFO jumper systems equipped with OEM instruments, connectors or ELFO designed equipment to the industry.

Design	Specification	
	OD 25mm	OD 32mm
Minimum Bend Radius (static)	120mm	160mm
Weight in air (water)	0.65 (0.15) kg/m	1.05 (0.25) kg/m
Design life	30 years	
Water depth	4000 meters	
Temperature rating	-18°C to 40°C	
Sealing	Double water-blocking barriers	
Materials	Hose: SBR/NBR/PVC. Fittings and split box: Super duplex	
Interface	Fitting MKII, compatible with subsea connectors, sensors, and equipment	

Performance	Qualification
Compensation	Positive internal pressure and compensation characteristics verified for full range
Pull forces	> 5000N
Burst pressure	> 40Bar
Crush resistance	No detrimental effects due to the hose being crushed flat verified
Hose kink	Kinking of hose < 30% of minimum bendradius
Drop	Withstands the impact of drop from a height of 2 meter
Handling and coiling	Withstands handling and coiling in figure 8 pattern to minimum bend radius
Shock and vibration	Shock tested in 6 directions, sinusoidal and random vibration
Temperature	Temperature soak and cycling to high and low design temperature
Hyperbaric	Three pressure cycles from ambient to 445bar

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