



Top Drive

Service Loops

Compatible with leading world
manufacturers including

NOV CANRIG AKER

Special Cable developed by HELB

For different types of AC and DC drives on onshore and offshore drilling rigs: **1. Auxiliary loops** | **2. Power loops**

Double warranty period for best price

High-quality products with premium components & design

Short delivery time

Reliable and expert technical support

Resistant to mechanical damages, highly flexible, for suspension on just two points (ends), containing signal and power conductors

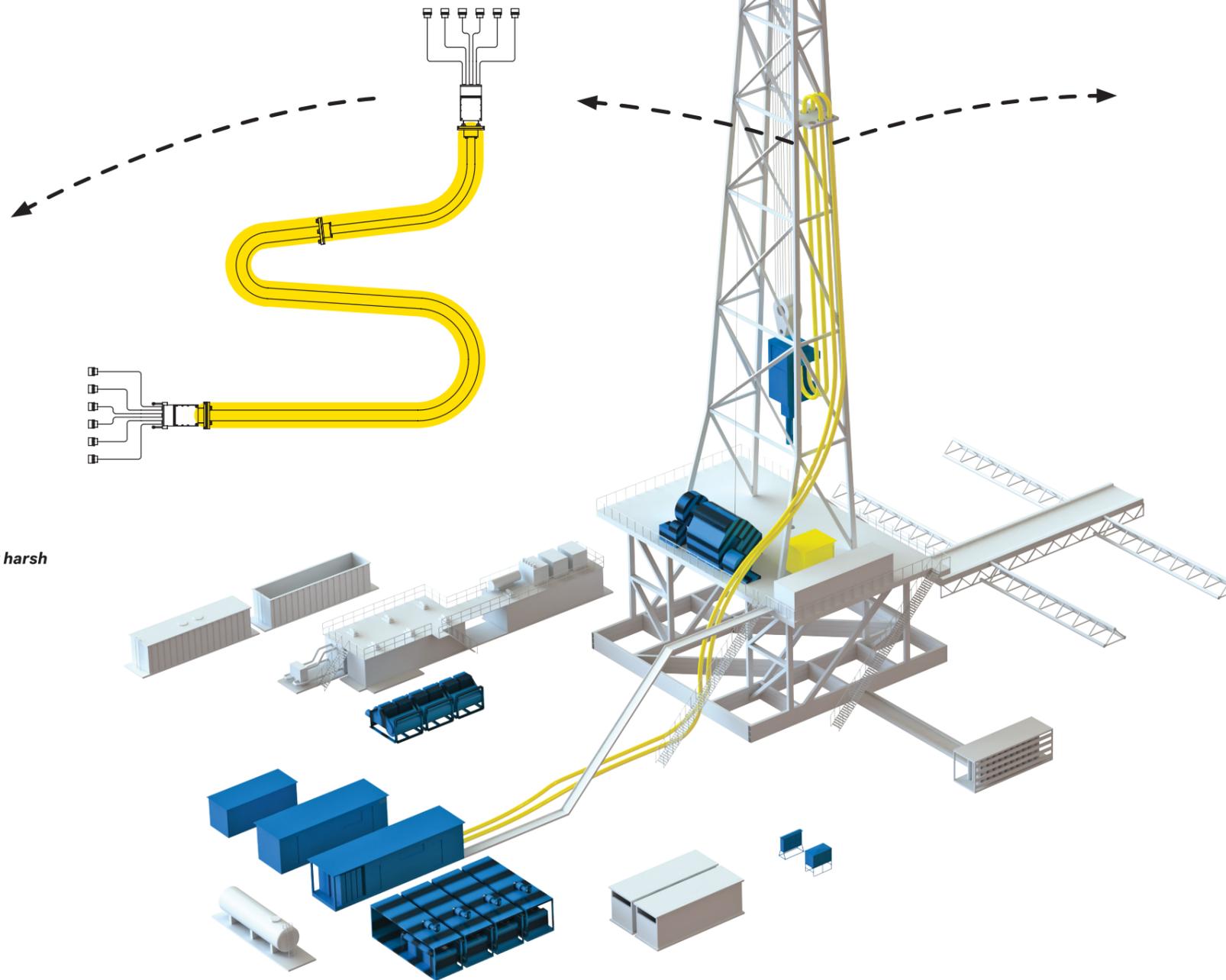
Specially designed head / flange for fixing the cable

Custom-built

24-month or 12-month warranty

Highly reliable

Suitable for extremely harsh operating conditions



Additional technical information

1

CABLE | Cables selected to provide durability in areas where continuous bending or free movement is required
Power loop cable / VFD or other appropriate type of cable:

- cross-linked flame retardant polyolefin for improved mechanical properties
- for AC/DC motors: cross-section of individual cable cores according to TD motor characteristics

Auxiliary loop cable / special cable developed by HELB:

- oil, UV, cold and extreme mechanical load resistance
- special type of sheathing insulation for high demanding wire & cable applications: TPE-E (Thermoplastic Polyester Elastomer) and PUR (Thermoplastic Polyurethane)

2

FLANGES | Technologically innovative part of the cable which evenly distributes the load on different parts of the cable and prevents “sinking or slipping” of the cable into the flange

Physical dimensions according to customer demands and actual situation on a rig

3

FILLINGS | Dynamic loops partially filled with environmentally friendly, 2-component, material based on hydrocarbon resins, with excellent insulating properties, hydrophobic and with excellent corrosion protection

4

CONNECTORS | Regular and certified explosion-proof connectors according to top drive or VFD connector type

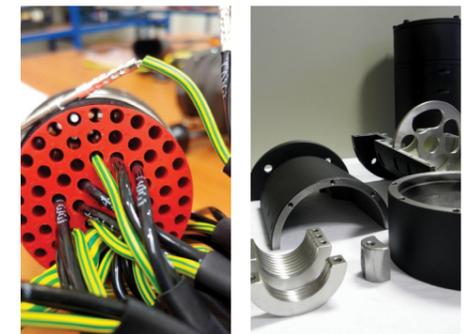
Enabling easy installation and dismantling which is important during rig movement

5

PROTECTIVE HOSE | Additional mechanical protection of the internal cable from possible damage and harsh working conditions.

Custom hose marking which indicates that the installed loop is not twisted.

NOV
CANRIG
AKER



Technical characteristics

EXAMPLE

LENGTH	from 20m to 80m
BENDING RADIUS	4 - 12d
PROTECTION HOSE	from 20m to 80m
STORAGE TEMPERATURE	-50°C to + 80°C
WORKING TEMPERATURE	-40°C do + 70°C
POWER LOOP	AUXILIARY LOOP
VFD cable: 535, 646, 777 MCM + 3x ground (depending on the type of the power loop)	Special innovative multi-core cable with carrying kevlar rope
Nominal voltage: 1000V for use in VFD application	Nominal voltage for power conductors: 600 VAC
Withstanding voltage: 2000V AC/DC	Nominal voltage for control and signal conductors: 230 VAC, 24 VDC, 4-20 mA, 0-10 VDC
	Withstanding voltage:1000V AC/DC



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