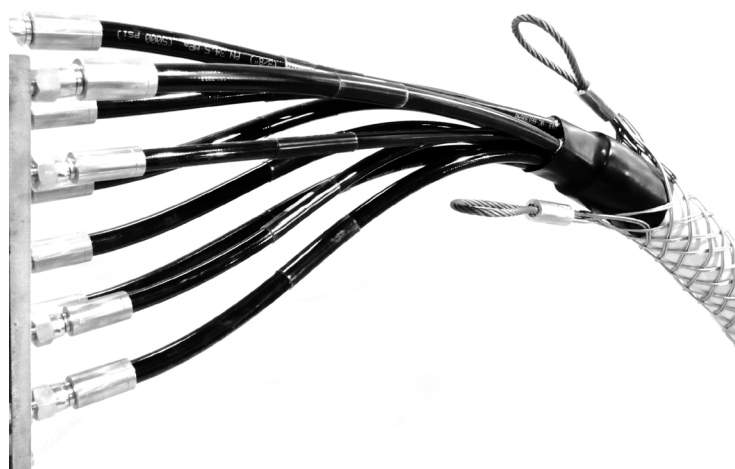


Fluid Control UMBILICAL

INTRODUCTION

Since the start-up in 1979 Fluid Control has acquired extensive experience within flexible hose assembly solutions. We deliver a wide range of high quality hoses from world class manufacturers with several types of fittings for multiple applications. Based on our sound knowledge and competence we have established our own umbilical/hydraulic flying leads production to meet our customer needs. All umbilicals/hydraulic flying leads are custom made according to customer requirements.



FLUID CONTROL
www.fluidcontrol.no



FLUID CONTROL

A TYPICAL PRODUCTION PROCESS

Bundling

All lines are bundled in the production assembly line.

Spoiled onto a drum

The bundle is spoiled onto a drum making it ready for extrusion.

Extrusion & Braiding

The bundle is typically extruded with a cover of flameretardant polyurethane or other materials specified by our customers. Aramid wire and steel wire for tension relief are available options.

Termination

Upon completion of the extrusion process our certified hose fitters terminate the hoses with the specified connectors / fittings.

Testing & Flushing

All lines undergo a hydrostatic pressure test in accordance to applicable standards and flushing according to customer specification. When requested we invite Third Party to witness the testing.

Tag / Marking

The umbilical will be tagged and marked in accordance with Fluid Control standard procedure. The tags will include customer reference or other requested information. Customer specific marking is possible.

Final Inspection

Before umbilical / hydraulic flying lead is packed and shipped to customer we perform a final inspection as part of our quality process.

DOCUMENTATION PACKAGE

Our standard documentation package consists of the following documents:

- Hydrostatic Pressure Test Reports
- Datasheets
- Drawings

Other documents are available on request.

SERVICE AND REPAIR OF UMBILICAL

- Re-termination of hose fittings
- Testing / Flushing
- Repair of outer sheet
- Re-application Armour Body
- Moulded bend stiffener


BENEFITS OF USING FLUID CONTROL

- Short lead times
- Customized design
- Certified hose fitters
- Extensive knowledge and competence within the field of flexible hose solutions
- Wide range of hoses and couplings supplied from world class manufacturers in stock



UMBILICAL DATA SHEET Umbilical hose assembly 36 mtr. x 15 lines

DESCRIPTION	Umbilical hose assembly 36 mtr. x 15 lines		
	UMB END 1		UMB END 2
Tail Length	1m	Tail Length	1m
Mechanical Transmittion	N/A	Mechanical Transmittion	N/A
Bend Stiffner	N/A	Bend Stiffner	N/A
End fittings	JIC6 & JIC4 S/S 316	End fittings	JIC6 & JIC4 S/S 316
Cable Sock	Yes		Yes
HOSE TYPE	NO Off	WP	TP
2022N-06V91-5K	11	345	517
2022N-04V91-10K	4	690	1035
Filler	Type	Length	
4 off	10 mm rope	36	
Test medium	Flush medium	Flush class	
Water			

02	Initial design		TST	
REV	DESCRIPTION	DATE	CREATED	APPROVED
REVISION HISTORY				
DRAWN BY	28.07.2014	DRAWING NUMBER	P-00239-02	
CHECKED BY		DESCRIPTION	Umbilical 15 lines	
APPROVED BY		PROJECT / TITLE		
MATERIAL	Steel 2	CLIENT		
WEIGHT	N/A	STATE	Work in Progress	This Drawing is the property of Fluid Control AS and may not be used, reproduced, published or disclosed to others without written authorization.
SIZE	A3	SHEET	1 OF 1	
DRAWING NOT TO SCALE		FIRST ANGLE PROJECTION		
REV	02			