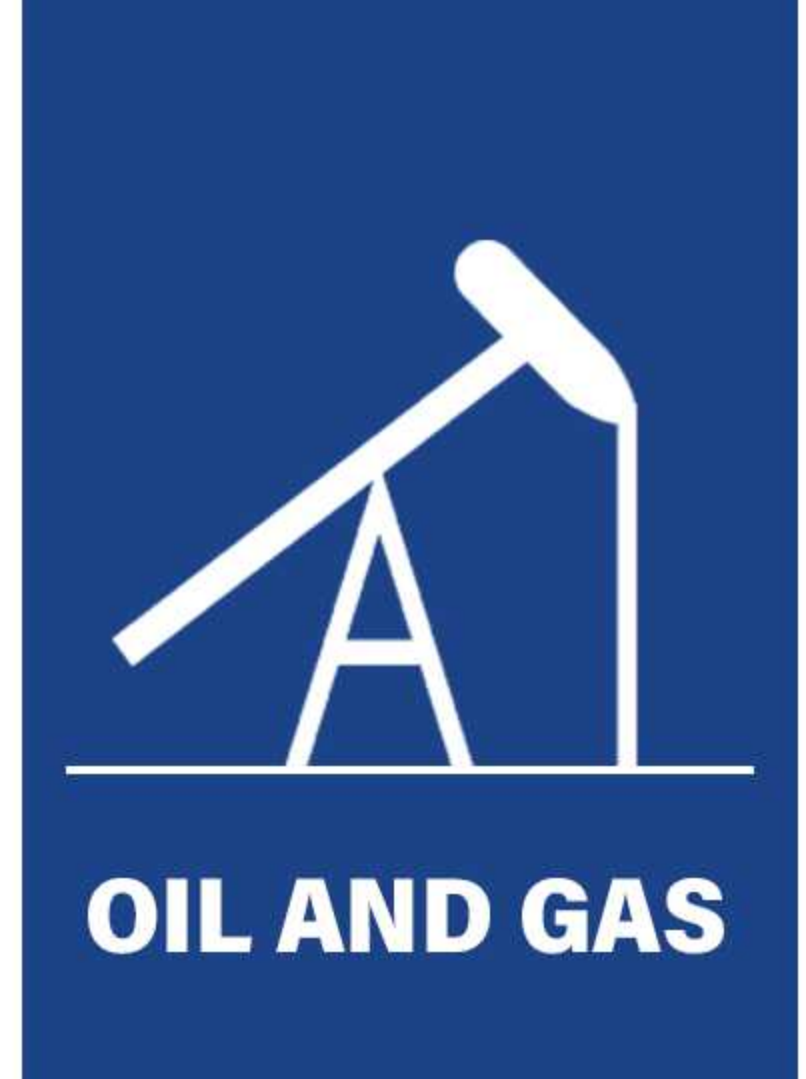




LANDER

FLAT PACK



LANDER

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Oil And Gas

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COMPANY PROFILE

OIL AND GAS

Our Brand

Lander is a professional manufacturer of high-end cables and related products for the energy and industrial sectors. Our key products include capillary tubes, downhole control lines, chemical injection lines, coiled tubing, TEC cables, ESP cables, Flatpack cables, Wireline cables, Peek wire, and PFA cables.

We also provide magnet wire for ESP motors, steel ropes, strapping materials, cable protectors, and other accessories for demanding industrial applications.

Our Philosophy

Lander's core strengths lie in cost competitiveness, on-time delivery, and flexible service. We are committed to providing customer-oriented, efficient, and tailored solutions, always striving to create greater value for our clients.

Our Quality

We adhere to API and ASTM international standards, rigorously controlling every stage of production, from raw material procurement to manufacturing. This ensures the highest levels of performance and reliability for our products.

Our focus on quality allows us to meet the toughest industrial requirements, delivering dependable and durable solutions for even the most challenging conditions.



LANDER PRODUCT INTRODUCTION

LANDER FLAT PACK

Features

Lander's Flat Pack is specifically engineered to streamline well completion operations by minimizing the number of spooler units and simplifying installation procedures. Available in multiple configurations—featuring single-pass or dual-pass encapsulation—it provides robust protection in challenging downhole environments. Each tube and component can be color-coded or custom-printed for quick identification and efficient handling. For applications requiring enhanced crush resistance, bumper bars or wire rope reinforcements are also available. With Lander's Flat Pack, you can reduce operational costs while ensuring a safer and more reliable well completion process.

Application

Flat Pack is commonly used when several different lines are terminated at approximately the same depth in the well. Common applications include intelligent well systems, deep-set chemical injection lines with downhole gauge cable, and safety valve lines with shallow set chemical injection lines. In some cases, bumper bars are encapsulated within the Flat Pack to provide additional crush resistance.

Standards & Approvals

Control Lines are manufactured according to applicable ASTM standards for each specific material. Tubes can be supplied flushed, filled, and filtered per client requirements and to the appropriate NAS/SAE standards.

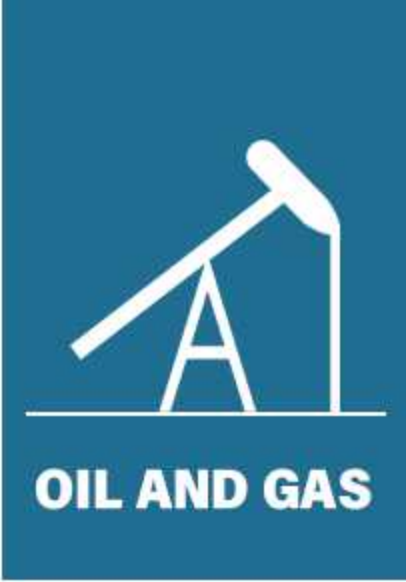
Combination

- TEC cable
- TEF
- Hybrid
- Control Lines
- Steel wire rope
- Other optional

Design & Construction

- Encapsulation for single and multiple lines
- Optional Bumper Bars
- Optional Strip Encapsulation
- Up to 8 lines can be flatpacked
- Customized Line Marking
- Full range of application materials - Optional Flush & Fill





LANDER TECHNICAL DATA

LANDER TECHNICAL DATA OF FALT PACK

Flat Pack Material Guide

Different TEC models, using materials ranging from HDPE and nylon to FEP and PFA, are tailored for various brine and hydrocarbon environments—from standard to extreme—ensuring enhanced completion reliability through optimized abrasion resistance, corrosion resistance, and thermal stability.

Completion Fluid Environment

TEC Style	TEC 100	TEC 150	TEC 175	TEC 200	TEC 250	TEC300
Brine	HDPE PE	PP TPO -PP	FEP, ETFE or ECTFE	FEP	PFA	Proprietary Fluoropolymer
Petroleum -based	Nylon	Nylon	FEP, ETFE or ECTFE	FEP	PFA	Proprietary Fluoropolymer
Petroleum and brine	ETFE or ECTFE	ETFE or ECTFE	FEP, ETFE or ECTFE	FEP	PFA	Proprietary Fluoropolymer

Encapsulation Material

Material Name	Common Industry Name	Temperature Range	Abrasion Resistance	Resistance to Brines	Resistance to Hydrocarbons
Nylon 11	Rilsan 11, Nylon 11, Polyamide	-60°C to 135°C	5	3	5
Polypropylene	Poly, Polyolefin	-25°C to 150°C	3	5	3
TPET,TPR,TPV	Santoprene, EZPrene, NexPrene	-30°C to 150°C	3	5	3
PVDF - Copolymer	Solef, Kynar	-30°C to 150°C	4	4	5
ECTFE	Halar	-75°C to 150°C	5	5	5
ETFE	Tefzel	-100°C to 150°C	5	5	5
FEP	Teflon	-110°C to 200°C	3	5	5
MFA/PFA	Teflon	-110°C to 250°C	3	5	5

5=Excellent 1= Poor

Other Polymers and grades available upon request.



TECHNICAL DATA OF FALT PACK

Flat Pack Profiles Guide

Multiple configurations: round, square, and rectangular core line structures.
Corrosion and pressure resistant for harsh downhole environments.
High precision manufacturing ensures sealing and performance.
Supports hydraulic control, chemical injection, and sensing integration.

Single Core Line Round Flat Pack

Round	Core Line	Size
	1 x 1/8" Line	0.250" Diameter (6.35 mm)
	1 x 1/4" Line	0.410" Diameter (10.4 mm)
	1 x 3/8" Line	0.535" Diameter (13.6 mm)
	1 x 1/2" Line	0.660" Diameter (16.8 mm)

Single Core Line Square Flat Pack

Square	Core Line	Size (Height*width)
	1 x 1/8" Line	0.250" x 0.250" (6.35 mm x 6.35 mm)
	1 x 1/4" Line	0.433" x 0.250" (11.0 mm x 11.0 mm)
	1 x 3/8" Line	0.535" x 0.535" (13.6 mm x 13.6 mm)
	1 x 1/2" Line	0.660" x 0.660" (16.8 mm x 16.8 mm)

Two-core Lines Rectangle Flat Pack

Rectangle	Core Line	Size
	2*1/4" Line	0.433" x 0.866" (11.0 mm x 22.0 mm)
	2*1/4" Line + 7.5mm Wire Rope	0.472" x 1.024" (13.0 mm x 26.0 mm)
	2*3/8" Line	0.512" x 1.024" (16.0 mm x 30.0 mm)
	2*1/2" Line	0.472" x 1.024" (12.0 mm x 26.0 mm)

Three-core Lines Rectangle Flat Pack

Rectangle	Core Line	Size (Height*width)
	3 x 1/4" Line	0.433" x 1.299" (11.0 mm x 33.0 mm)
	1 x 1/4" x 0.035 Line + 2 x 1/4" x 0.049 Line	0.433" x 1.102" (11.0 mm x 28.0 mm)

Four-core Lines Rectangle Flat Pack

Rectangle	Core Line	Size (Height*width)
	4 x 1/4" Line	0.433" x 1.732" (11.0 mm x 44.0 mm)

Three-core Lines Rectangle Flat Pack

Rectangle	Core Line	Size (Height*width)
	1/4" Flatpack with Bumper	Width:1.417"(36 mm)
	Bars	Height: 0.551(14 mm)

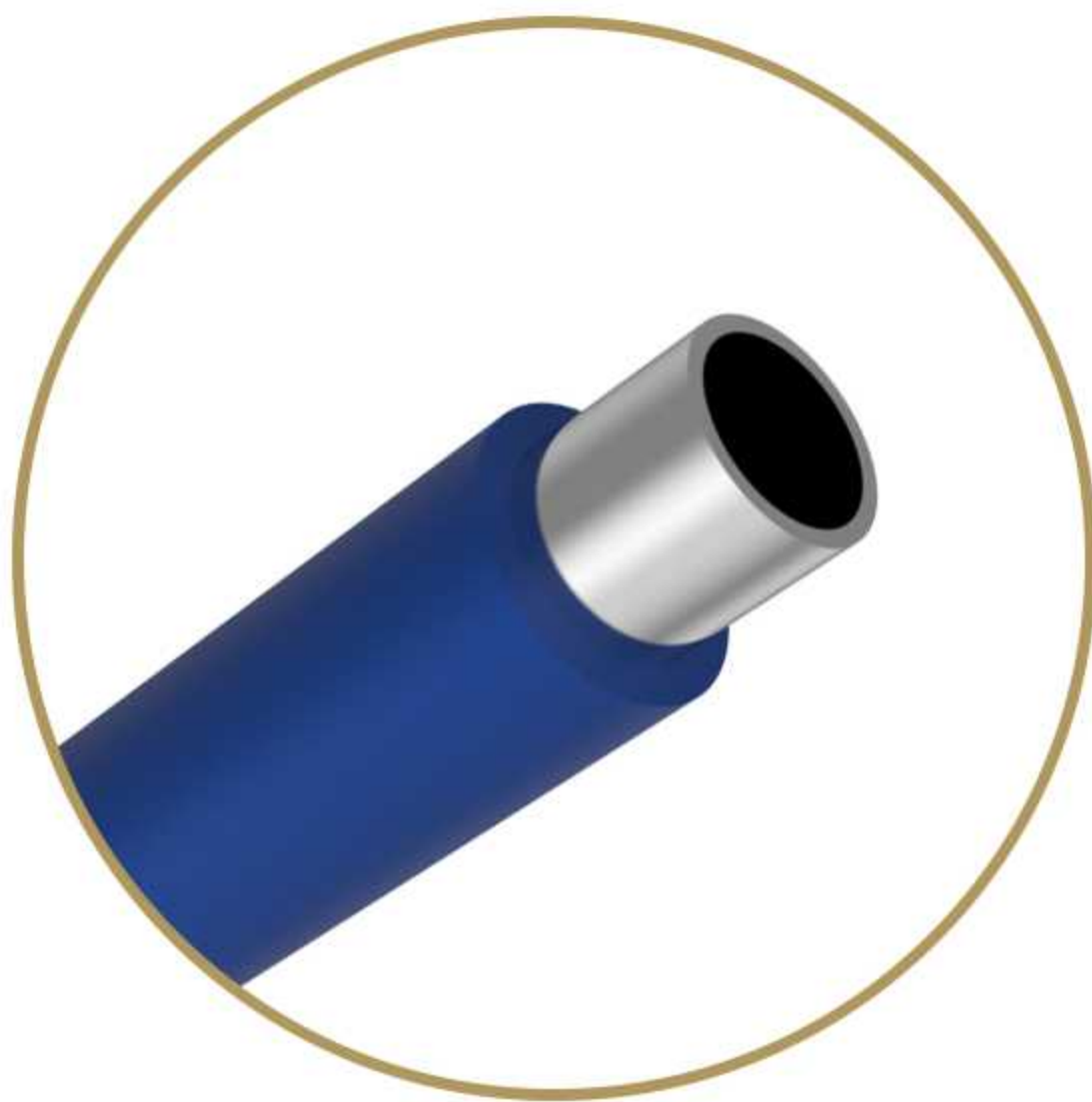
Five-core Lines Streamlined Flat Pack

Rectangle	Core Line	Size (Height*width)
	5x1/4" Line Flatpacks	Width:2.080"(52.8 mm)
		Height: 0.670"(17.0 mm)

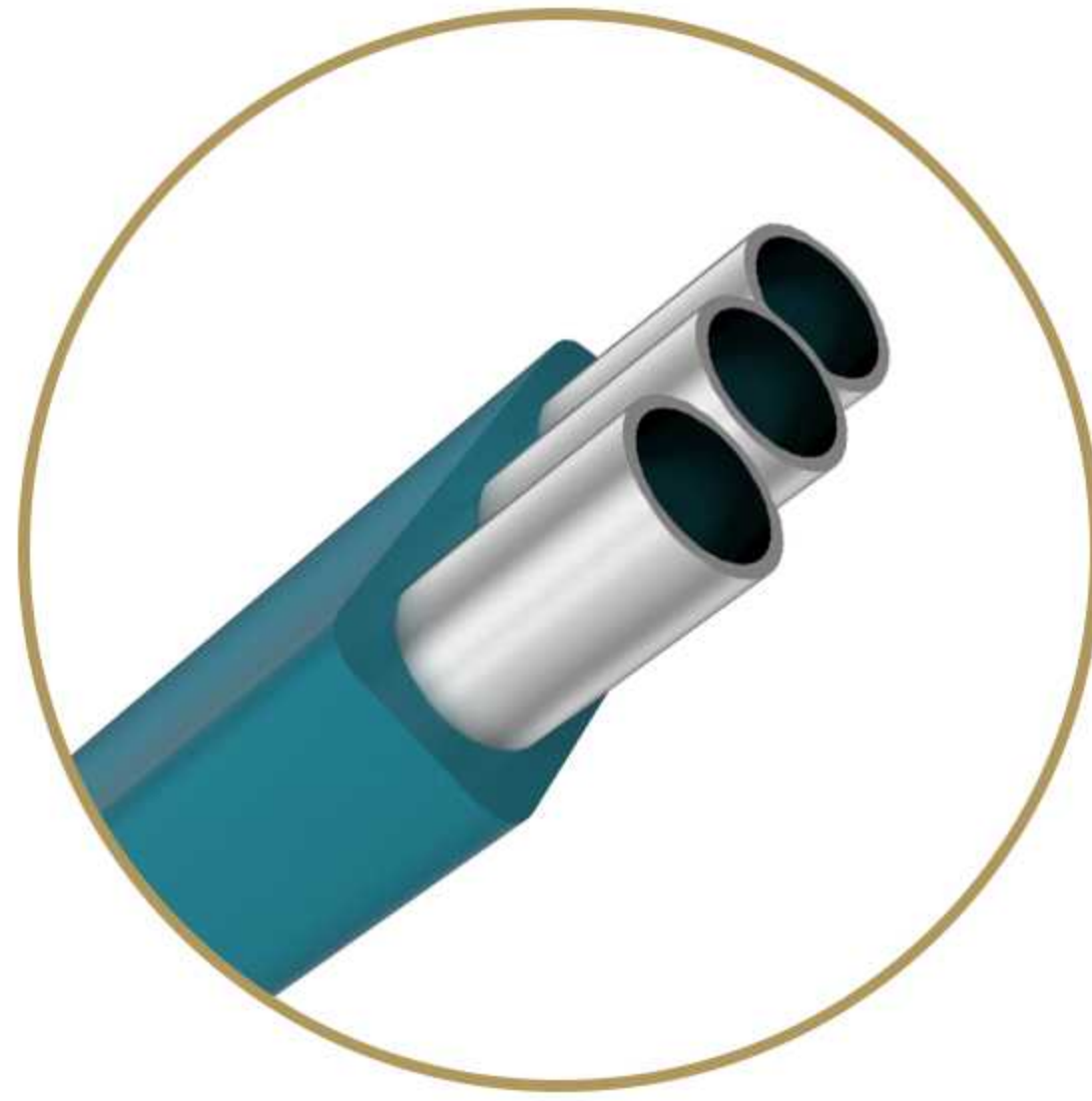
LANDER HOT SALE FALT PACK

LANDER HOT SALE FALT PACK

Hot Sale FLAT PACK is a compact packaging solution specially designed for downhole cables and coiled tubing. Its flat-packed structure maximizes space efficiency and reduces transportation costs while ensuring product integrity and safety during handling.



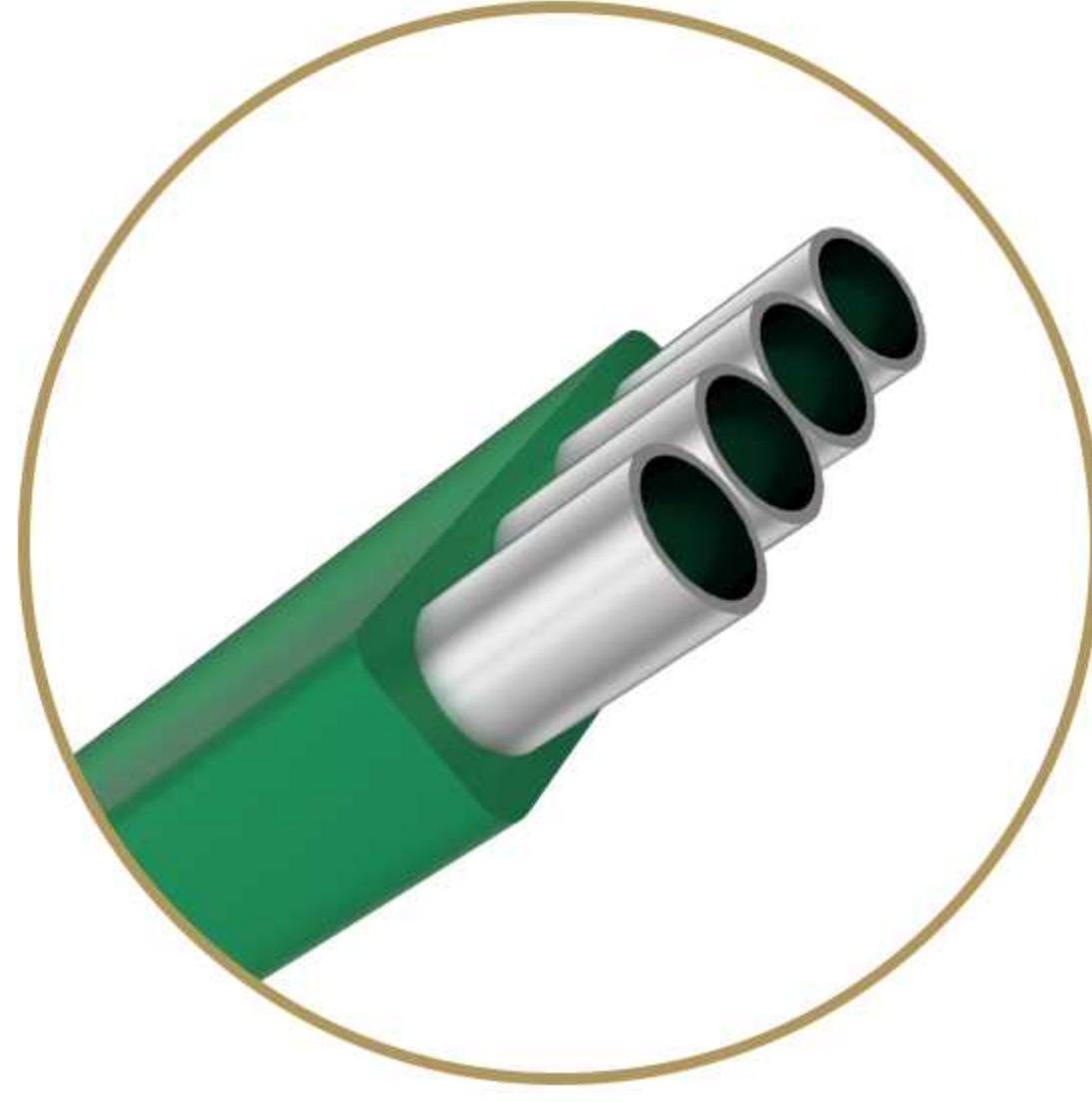
Single Core Round Flatpack-13.6mm
1 x 3/8" Flatpack-Round
Shape Encap 0.535"(13.6mm)



Three-Core Rectangle Flatpack
3 x 1/4"(6.35mm) Flatpack-Rectangle
Shape Encap 0.990"*0.410"(25.2mm*10.4mm)



Single Core Square Flatpack
1 x 3/8"(9.53mm) Flatpack-Square
Shape Encap 0.512"*0.512"(13mm*13mm)



Four-Core Rectangle Flatpack
4 x 1/4"(6.35mm) Flatpack-Rectangle
Shape Encap 1.280"*0.410"(32.5mm*10.4mm)



Two-Core Rectangle Flatpack
2 x 1/2" Flatpack-Rectangle
Shape Encap 1.200"*0.660"(30.5mm*16.8mm)



Two-Core Rectangle Flatpack
1 x 1/4" TEC and (1)3/8" Flatpack-Rectangle
Shape Encap 0.825"*0.535"(21*13.6mm)



LANDER

LANDER, CONNECT OIL AND GAS WORLD

GLOBAL SALES NETWORK

Warehouses In Canada & USA

Strategically located warehouses in North America, ensuring efficient and timely deliveries across the continent.

30 + Export Countries

A trusted partner with a strong global footprint, delivering high-quality products to over 30 countries worldwide.

Professional In Oil & Gas Industry

With many years of industry experience, we provide advanced solutions for the oil and gas sector, meeting the stringent requirements of critical applications.