

## Extremely Robust Extruded TPU Fuel & Oil Discharge Lay Flat Hose



Specially Designed for Heavy Duty Fuel & Oil Transport in Marine & Offshore environments

Low Weight & Flexible for Fast Deployment and Retrieval

Completely Antistatic: 2 grounding wires totally encapsulated within the external black straps to prevent static build up

Blue and Black Colored Options Fully Approved for Potable Water - NSF/ANSI/CAN Standard 61 Certified

**Color:** High visibility orange cover is the standard. Blue (NSF certified version), black (NSF certified version), and NATO green options are also available upon request and minimum order quantity.



### Electrical Performance:

The OROFLEX OFFSHORE hose contains 2 electric wires embedded within the hose to prevent the build up of static electricity. Each static wire has a 0.5mm<sup>2</sup> cross section and is totally encapsulated within a black strap along the hose. This construction makes the OROFLEX OFFSHORE hose highly conductive and yet flexible, with a much lower electric resistance than the 1.5 ohm/ft (4.9 ohm/m) stated in the MIL-PRF-370K/2017 standard. \*

\* The 1 1/4" hose has only 1 electrical wire.

### Couplings:

As requested by purchaser; crimped ferrule couplings, segmented couplings, conical couplings, Camlock, Victaulic, Storz, etc. The hose must be properly connected to conductive couplings and properly grounded when transferring fuels in order to prevent electric build up. To do so, the 2 electric wires woven into the body of the hose need to be electrically bonded to the couplings.

### Applications:

Designed and recommended for fuel and oil discharge operations in refineries, bunkering, offshore industry, chemical plants, and military installations. Ideal for brackish and seawater transfer, brine transfer, ship-to-shore unloading, ship-to-ship refueling, bulk fuel discharge/loading, tank-to-tank transfer, offshore rig supply, drill water, drilling muds, cement, bulk powder, high pressure bypass, and drinking water transport (NSF approved versions).

### Construction:

Made from circularly woven 100% high tenacity synthetic yarn, completely protected and locked-in by a tough, highly resistant thermoplastic polyurethane extruded through the weave, forming a single homogenous construction without the use of glues or adhesives. It includes 2 electrical grounding wires totally encapsulated within the external black straps along the hose to help prevent static build up. The construction of the hose does not permit corrosion or scaling, while giving a high resistance against abrasion and cutting. Easy handling, storage & transport, which allows for fast installation and retrieval. 2% maximum hose elongation and 15% maximum hose expansion.

### Lengths:

Standard lengths in 330ft (100m) and 660ft (200m). Longer lengths may be available upon request.

### Abrasion Resistance:

The OROFLEX OFFSHORE hose will extend the lifetime of your application when under extreme conditions, where abrasion is the main concern. Under practical conditions, thermoplastic polyurethane is considered to be the most abrasion resistant elastomeric material.

### Service Temperature Range:

From -58°F (-50°C) to 150°F (65°C), with peaks of up to 175°F (80°C). Special versions for higher and lower temperatures available upon request.

### Ozone Resistance:

No visible signs of cracking will appear due to the ozone. Excellent weather and UV resistance.

### Chemical Resistance:

Exposure to seawater and contamination by most chemical substances, hydrocarbons, oils and greases has no effect on the short or long term performance of the hose. A chemical resistance chart is available and TIPSA will supply specific chemical resistance data when requested by the purchaser for unique applications.

### Lining Properties:

- Ultimate Tensile Strength of the lining: Minimum guaranteed value of 5,800 psi (40 MPa).
- Ultimate Elongation: 500% minimum.

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### Physical Properties:

Part Number	Nominal Inner Diameter		Wall Thickness		Working Pressure * Fuel Oil		Working Pressure * Other Fluids		Burst Pressure		Tensile Strength		Nominal Weight	
	mm	inch	mm	inch	bar	psi	bar	psi	bar	psi	kg	lb	kg/m	lb/ft
F556270A	32	1 ¼	2.2	0.087	20	290	40	580	80	1,160	3,000	6,600	0.29	0.19
F556271A	40	1 ½	2.2	0.087	18	260	35	508	70	1,015	3,500	7,700	0.35	0.24
F556272A	52	2	2.7	0.106	16	230	31	450	62	900	5,500	12,150	0.59	0.40
F556273A	65	2 ½	3.4	0.134	15	218	29	420	58	840	6,000	13,250	0.87	0.58
F556274A	76	3	3.5	0.138	15	218	29	420	58	840	8,000	17,650	1.02	0.68
F556150A	102	4	3.5	0.138	15	218	29	420	58	840	12,000	26,450	1.38	0.93
F556275A	127	5	4.3	0.169	15	218	29	420	58	840	18,000	39,700	1.94	1.30
F556276A	152	6	4.5	0.177	15	218	29	420	58	840	29,000	63,950	2.63	1.77
F556152A	203	8	4.3	0.169	11	160	21	300	42	600	35,000	77,200	3.30	2.22

\* The maximum working pressure of the assembly is given either by the hose or the coupling, whichever is lower.

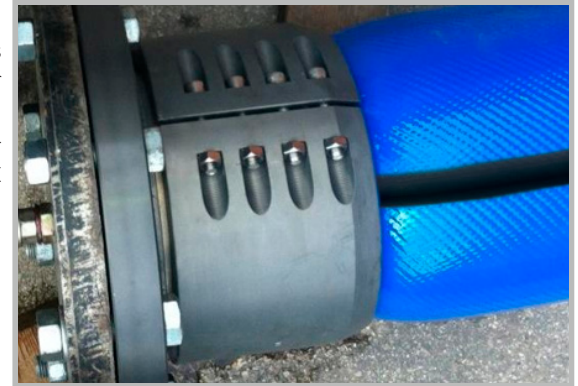
All these part numbers refer to the hose in orange color.

The OROFLEX OFFSHORE hoses are only available on minimum order quantity.

The actual diameter of these hoses may differ slightly from the nominal diameter specified in this chart to make sure that they can be properly assembled with the couplings. Please contact TIPSA or your distributor for more information regarding diameter tolerance.

The blue colored and black colored versions of the OROFLEX OFFSHORE hose are fully approved for potable water. NSF (National Sanitation Foundation) certifies that these versions of the OROFLEX OFFSHORE hose conform to the requirements of NSF/ANSI/CAN Standard 61- Drinking Water System Components- Health Effects.

Only products bearing the NSF Mark are Certified.



Do not use this product in applications that require an electrically non-conductive hose.

**tipsa:** reserves the right to modify any specification without prior notice to meet or exceed changing standards. Customers are advised that special diameters or construction characteristics can be produced upon special request. Contact your local dealer or TIPSA at: [tipsaex@tipsa.com](mailto:tipsaex@tipsa.com)

