

# 518D Non-Conductive Hose

Designed specifically for the rigors of the aerial lift market including the highest level of non-conductivity, abrasion and permeation resistance.



Parflex 518D non-conductive thermoplastic hose was developed to handle the harshest environments, both internally and externally. The 518D hose, from Parker Hannifin, has a new core material that is more resistant to permeation and an outer jacket that has greater abrasion resistance than many other products on the market today.

Many end users are using hydraulic fluids with aggressive additives that can move through hoses over time (permeation). The core material in 518D is highly resistive to the permeation of these fluids. In addition, Parflex gave the 518D-4 a special reinforcement package to reduce the reinforcement diameter, allowing for an increase in the thickness of the special PFX cover. In lab studies, this improvement has shown to provide as much as 5x more abrasion resistance than 518C hose.



Parflex 518D hose uses the same fitting and crimp diameters as our current 518C product for a quick and easy replacement.



## Contact Information:

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## Product Features:

- Twin or multi-line constructions available
- Super high density braid for maximum impulse life without loss of flexibility
- "MADE IN USA" construction
- 4:1 design factor (SAE)
- Bonded construction; thicker jacket makes splitting easier



ENGINEERING YOUR SUCCESS.

# 518D – Non-Conductive Hose



## Features

- Nylon core for maximum resistance to permeable fluids.
- 518D-4 offers heavier polyurethane jacket improving abrasion resistance and ease of splitting bonded constructions
- Super high density braid allows smaller braid O.D. (518D-4)
- Twin or multi-line constructions available.

## Applications/Markets



- Medium pressure hydraulic service where hydraulic circuit exposure and contact with high voltage may be encountered
- Aerial lift equipment
- Hydraulic tools where exposure to high voltage may be encountered

## Certifications

- Meets SAE J517 for less than 50 micro-amps leakage under 75,000 volts per ft.
- Meets/Exceeds SAE 100R7
- ANSI A92.2

[Visit the webpage](#)

Part Number	Nominal I.D.		Maximum O.D.		ANSI A92.2 Max. Working Pressure 73°F/ 23°C		SAE 100R7 Max. Working Pressure 73°F/ 23°C		Minimum Bend Radius		Weight		Permanent Fitting Series
	#	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs./ft.	
518D-2	1/8	3	.34	9	3,150	21.7	3,000	21.0	0.50	13	.03	.05	56
518D-3	3/16	5	.43	11	3,250	22.4	3,250	22.4	0.75	19	.05	.07	56
518D-4	1/4	6	.47	12	3,150	21.7	3,000	20.7	1.50	38	.06	.09	56
518D-5	5/16	8	.57	14	3,150	21.7	2,500	17.2	1.75	44	.08	.11	56
518D-6	3/8	10	.64	16	3,000	20.7	2,250	15.5	2.00	51	.10	.14	56
518D-8	1/2	13	.81	21	3,000	20.7	2,250	15.5	3.00	76	.15	.22	56
518D-12	3/4	19	1.09	28	1,660	11.4	1,250	8.7	5.00	127	.21	.31	56

## Construction

Tube: Nylon

Reinforcement: Fiber

Cover: Proprietary Blend (PFX)

## Operating Parameters

Temperature Range:

- -40°F (-40°C) to +212°F (100°C)

Vacuum Rating: 28 inch Hg

Change in length at Max. Working Pressure: +/-2%

Min. Burst Pressure: (SAE requires 4:1 Design Factor)

- 4:1 Design Factor is required if hose failure will result in movement of aerial device
- 3:1 Design Factor is acceptable if hose failure will not result in movement of aerial device

## Fittings

56 Series

For most Parker products, Crimp Die Selection charts can be found online at [www.parker.com/crimpsource](http://www.parker.com/crimpsource)

## Colors

- Orange

## Notes

- Non-perforated cover
- Lay lines on this hose will have both ANSI and SAE maximum working pressure listed. ANSI A92.2 "Vehicle Mounted Elevating and Rotating Aerial Devices"

