

518C – SAE 100R7 Non-conductive Hose

Copolyester Core Tube

Hydraulic service where hydraulic circuit exposure and contact with high voltage may be encountered.



Features

- Twin or multi-line constructions available
- High density braid for maximum impulse life without loss of flexibility
- Low coefficient of friction cover

Construction

- Tube: Copolyester
- Reinforcement: Fiber
- Cover: Polyurethane

Operating Parameters

- Temperature Range:
 - Petroleum based hydraulic fluids and lubricating oils within a temperature range -40°F (-40°C) to 212°F (100°C)
 - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 135°F (57°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 required per SAE J517 100R7
 - 3:1 min design factor acceptable per ANSI A92.2

Compliance

- Meets SAE J517 for less than 50 micro-amps leakage under 75,000 volts per ft.
- Meets/Exceeds SAE J517 100R7 specifications and Electrical Standards except 518C-2 with respect to maximum working pressure
- DNV-GL Type Approved
- ANSI A92.2

Fittings

- 56 Series – pg. E-33 51 Series – pg. E-22
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

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"
- *3/16" and 1/4" working pressure reduced to 3,000 and 2,750 psi respectively when using field attachable fittings
- Field attachable fittings are not intended for use on hose that has been previously in service

Color

- Orange (non-conductive)

Series 518C

[Visit the webpage](#)

Part Number	Nominal I.D.		Maximum O.D.		ANSI A92.2 Maximum Working Pressure		SAE 100R7 Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series	Field Attachable Fitting Series
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs./ft.	kg/mtr		
518C-2	1/8	3.2	0.34	8.6	3,150	21.7	2,500	17.2	1/2	13.0	0.03	0.05	56	-
518C-3	3/16	5	0.43	10.9	3,250	22.4	3,250	22.4	3/4	19.0	0.05	0.07	56	51*
518C-4	1/4	6.3	0.47	11.9	3,150	21.7	3,000	21.0	1-1/2	38.0	0.05	0.08	56	51*
518C-5	5/16	8	0.57	14.5	3,150	21.7	2,500	17.2	1-3/4	44.0	0.08	0.11	56	51
518C-6	3/8	10	0.64	16.3	3,000	20.7	2,250	15.5	2	51.0	0.10	0.14	56	51
518C-8	1/2	12.5	0.81	20.6	3,000	20.7	2,250	15.5	3	76.0	0.15	0.22	56	51
518C-12	3/4	19	1.09	27.7	1,660	11.4	1,250	8.7	5	127.0	0.21	0.31	56	51
518C-16	1	25	1.32	33.5	1,330	9.2	1,000	6.9	8	203.0	0.27	0.40	56	51



WARNING

This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.