

518C - Non-Conductive Hose SAE J517 ANSI A92.2 Meets or Exceeds SAE 100R7 1000 to 3000 PSI



PTFE Hose & Fittings

Thermoplastic Tubing

Coiled Air Hose, Fittings & Accessories

Truck (Fleet) Products

Tooling & Equipment

Hose Accessories

Technical & Design Information

Approvals & Guides

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| Part Number | I. D. | | Max. O. D. | | Max. Working Pressure ANSI A92.2 | | Max. Working Pressure SAE 100R7 | | Min. Bend Radius | | Weight | | Crimp Fitting | | 80C Crimp Die | Field Attachable Fitting | | |
|-------------|-------|------|------------|------|----------------------------------|-------|---------------------------------|-------|------------------|------|--------|--------|---------------|--------|---------------|--------------------------|-------|----|
| | # | inch | mm | inch | mm | wpsi | MPa | wpsi | MPa | inch | mm | lbs/ft | kg/m | series | pg | crimp die | re | pg |
| 518C-2 | 1/8 | 3 | 0.34 | 9 | 3000 | 20.68 | 2500 | 17.24 | 1/2 | 13 | .031 | .046 | 57 | 53-77 | P02H | N/A | | |
| 518C-3 | 3/16 | 5 | 0.42 | 11 | 3000 | 20.68 | 3250 | 20.68 | 3/4 | 19 | .046 | .069 | 55 | 53-77 | P03 | ** | | |
| 518C-4 | 1/4 | 6 | 0.47 | 12 | 3000 | 20.68 | 3000 | 18.96 | 1-1/2 | 38 | .052 | .077 | 55 | 53-77 | P04J | ** | | |
| 518C-5 | 5/16 | 8 | 0.57 | 14 | 3000 | 20.68 | 2500 | 17.24 | 1-3/4 | 44 | .075 | .112 | 55 | 53-77 | P05 | 51 | 42-50 | |
| 518C-6 | 3/8 | 10 | 0.63 | 16 | 3000 | 20.68 | 2250 | 15.51 | 2 | 51 | .096 | .143 | 55 | 53-77 | P06 | 51 | 42-50 | |
| 518C-8 | 1/2 | 13 | 0.81 | 21 | 3000 | 20.68 | 2250 | 15.51 | 3 | 76 | .148 | .221 | 55 | 53-77 | P08 | 51 | 42-50 | |
| 518C-10 (+) | 5/8 | 16 | 0.98 | 25 | 2000 | 13.8 | 1500 | 10.34 | 4 | 102 | .200 | .298 | 58 | 78-102 | P10H | N/A | | |
| 518C-12 | 3/4 | 19 | 1.08 | 27 | 1660 | 11.4 | 1250 | 8.62 | 6 | 152 | .188 | .280 | 55 | 53-77 | P12 | 51 | 42-50 | |
| 518C-16 | 1 | 25 | 1.32 | 34 | 1330 | 9.2 | 1000 | 6.90 | 8 | 203 | .269 | .401 | 55 | 53-77 | P16 | 51 | 42-50 | |

N/A = Not Available

Tube: Polyester
Reinforcement: Fiber
Cover: Proprietary Blend (PFX)
Cover Color: Orange, non-perforated
Temperature Range: -40°F to +212°F (-40°C to +100°C)
 (Limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids)
Vacuum Rating: N/A
(Delta) Working Length @ Rated WPSI: ±2% Max.

Applications/Markets:
 Medium pressure hydraulic service where both field attachable and permanent hydraulic circuit exposure and contact with high voltage may be encountered

Special Features:
 Twin or multi-line constructions available
 Meets SAE J517 for less than 50 micro-amps leakage under 75,000 volts per ft. Meets or exceeds SAE 100R7 specifications and Ontario Hydro electrical standards
 Complies with ANSI A92.2 for vehicle-mounted aerial devices. High density braid for maximum impulse life without loss of flexibility
Note: Lay lines on this hose will have both ANSI and SAE maximum working pressures listed. ANSI A92.2-1990 "Vehicle Mounted Elevating and Rotating Aerial Devices."

** 3/16" and 1/4" working pressure reduced to 3,000 and 2,750 respectively when using field attachable (51 series) couplings.

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

Note: The above hose(s) are not intended for use in static discharge applications; i.e., airless paint spray.
 (+) Non Standard. See page ii for information on non-standard products.