

# 53DM/538DM – DuraMax™ SAE 100R18 Low Temperature Hydraulic Hose

## Nylon/Copolyester Core Tube

Superior flexibility in cold temperature applications.



### Features

- Low coefficient of friction cover
- Superior flexibility in cold temperature applications
- Excellent for over-the-sheave applications
- Better bend radius than SAE J517 and 100R7
- 3,045 psi constant pressure

### Construction

- Tube: Nylon: -2  
Copolyester: -4 to -12
- Reinforcement: Fiber
- Cover: Copolyester

### Operating Parameters

- Temperature Range:
  - Petroleum based hydraulic fluids and lubricating oils within a temperature range -70°F (-57°C) to 212°F (100°C)
  - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 135°F (57°C) {Sizes -4 thru -12}
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

### Compliance

- Meets/Exceeds SAE J517 100R18
- Meets SAE J517 electrical standards (non-conductivity) - 538DM

### Fittings

- 56 Series – pg. E-33 CG Series – pg. E-72  
CY Series – pg. E-77
- For most Parker products, Crimp Die Selection charts are found online at [www.parker.com/crimpsource](http://www.parker.com/crimpsource)

### Notes

- Perforated cover - 53DM
- Non-perforated cover - 538DM

### Color

- ● Black - 53DM
- ● Orange (non-conductive) - 538DM



### Series 53DM/538DM

[Visit the webpage](#)

Part Number	Non-Conductive	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series
		inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr	
53DM-2	-	1/8	3.2	0.33	8.2	3,045	21	1/2	13	0.03	0.05	CY
53DM-4	-	1/4	6.3	0.49	11.9	3,045	21	1-1/4	32	0.07	0.10	56
53DM-5	-	5/16	8	0.59	15.0	3,045	21	2	51	0.10	0.15	56
53DM-6	538DM-6	3/8	10	0.66	16.7	3,045	21	2	51	0.11	0.16	56
53DM-8	-	1/2	12.5	0.85	21.6	3,045	21	3-1/2	89	0.17	0.26	56
53DM-10	-	5/8	16	1.03	26.2	3,045	21	4	102	0.22	0.33	56
53DM-12	-	3/4	19	1.13	28.7	3,045	21	6-1/2	165	0.26	0.39	CG

### 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](http://www.P65Warnings.ca.gov).