



Product Information

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D0403B Connector Lubricant

Description

By combining the superior lubricating qualities of Polyphenyl Ether with the cleaning power of a blend of solvents, Miller-Stephenson has created Connector Lubricant, a formulation that provides the most advanced total treatment for connectors.

ADVANTAGES:

- Cleans, lubricates and protects multi-pin connectors
- Reduces insertion forces
- Greatly increases mating cycles (especially important where high pin counts are involved)
- Extends connector life by preventing corrosion and galling
- Removes contaminants and oxides.
- Is non-migrating-contains no silicones.
- Non ozone depleting
- Available with an UV (ultraviolet) indicator
- No interference in electrical continuity
- Nonflammable
- Available in multiple concentrations of PPE

The active ingredient of Connector Lubricant is a six (6) ring polyphenyl ether lubricant. This lubricant will help protect metal connector surfaces from excessive wear, when subjected to hundreds of mating cycles, thereby increasing the life of the connectors. It will also reduce insertion forces and provide corrosion protection in harsh environments.

D0403B is available in different concentrations of polyphenyl ether (PPE). 2% of PPE is recommended for gold connectors operating at room temperature where there is little or no vibration. Where temperatures exceed 257°F/125°C or where connectors are exposed to severe vibration, a higher concentration of PPE is suggested. Also, connectors which are tin-lead require treatment with higher concentration of lubricant

Maximum Operating Temperatures

Estimated 20 year film life 230°F/110°C
Estimated 5 year film life 257°F/125°C

Note: Higher temperatures result in shorter film life.

Physical Properties: 6-ring Polyphenyl Ether

Surface Tension 54.2 dynes/cm

Evaporation Loss (ASTMD-972) 6.5 hrs.

400°F/204°C @ 760mm 0.04%
500°F/260°C @ 760mm 0.50%
500°F/260°C @ 140mm 1.10%

	wt.change of metals	500°F/ 260°C	600°F/ 316°C
		(FS-791 Method 5308.2, 48 hrs. @ temp., 5.5 hr. air flow)	Magnesium Aluminum Titanium Steel Copper Silver

Thermal Stability 836°F/447°C

Low-Temperature Performance: Performs consistently over a wide range of low temperatures to -20°C.

Electrical Properties: 6-ring Polyphenyl Ether

Dielectric Constant (@ 77°F/25°C)	60cy	1kc	10kc	100kc
		4.54	4.54	4.55

Resistivity @ 77°F/25°C @ 500VDC 1.56 x 10¹⁴ohm-cm

Dielectric Strength 43 Kv

Safety Data Sheets are available upon request.

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