

INTRODUCTION

The brush assemblies on pages 16,17,18 and 19 are the standard leaf and plunger brush assemblies used on Fabricast slip ring assemblies. These assemblies can be used to replace worn brushes on Fabricast slip rings or for other applications in which the customer feels they would be adaptable. Our engineers will specify the best brush grade for both Fabricast built slip rings and for customer applications. Custom brush assemblies can be designed and manufactured for your specific application.

BRUSH CONTACT MATERIAL

All slip rings and brush assemblies illustrated in the catalog are specified with FAG 180, our most common brush contact material. The following chart gives some basic information on FAG 180 and the most common optional brush contact materials.

Brush Contact Material Chart:

Brush Grade Number	Composition	Recommended Surface Speed	Carrying Capacity
FAG 180	80% Silver 20% Graphite	Up to 3500 feet per minute	250 amps per square inch
FAG 180A	80% Silver 20% Graphite plus MoS ₂	Up to 3500 feet per minute	250 amps per square inch
FAG 150	50% Silver 50% Graphite	Up to 6000 feet per minute	100 amps per square inch
FAG 150A	50% Silver 50% Graphite plus MoS ₂	Up to 6000 feet per minute	100 amps per square inch
FAG 193	93% Silver 7% Graphite	Up to 250 feet per minute	300 amps per square inch

Fabricast grade FAG 180 is the low noise level grade used for all standard brush assemblies. In general, a noise level of approximately 1 microvolt for each milliamp of current flow can be accomplished depending on the speed of the unit and quantity of brushes per ring.

Fabricast grade FAG 150 is the highest surface speed grade; however, noise levels are slightly higher than FAG 180. Brush life is approximately twice that of FAG 180. It is recommended when brush life is critical and/or surface speed is high. Low noise can be achieved with multiple contacts per ring.

Fabricast grade FAG 193 has the highest current carrying capacity of any grade; however, it is limited to a surface speed of 250 ft. per minute.

Fabricast grades FAG 180A and FAG 150A contain molybdenum disulfide in addition to silver and graphite. This additive is required for operation in altitude, vacuum, and inert environments. Other characteristics remain the same.