

PEEK MultiBeam Couplings

SOLAR PANEL HIGH VOLTAGE CAPACITORS

PROBLEM

A large household name in the Japanese consumer electronics industry was experiencing issues with alternative competitor couplings used in high voltage capacitors. After supplying around 30 machines to a solar panel manufacturer, the electronics giant got a shock when an electrical discharge problem caused one of the machines to malfunction.

SOLUTION

The malfunctioning machines were refitted with new Huco PEEK MultiBeam couplings. The PD (partial discharge) across the Huco MultiBeam couplings is 35,000 volts which is why the high dielectric strength PEEK material is needed (20 kV/mm in this particular application). The PEEK material has high mechanical strength at elevated temperatures, good chemical resistance, and very good electrical insulation properties.

Special Huco MutiBeam PEEK coupling models are available in 25, 32, and 38 mm diameters. They are designed for small amounts of angular misalignment (up to 7 degrees) and radial offset (up to 0.2 mm). Units have a peak torque rating up to approx. 2.5 Nm.



HIGHLIGHTS

- High dielectric strength PEEK material utilized (20 kV/mm)
- Up to 2.5 Nm peak torque
- Up to 7 degree angular misalignment
- Up to 0.2 mm radial offset

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