

Delrin Center Insulator for Wire Antennas & Ham Sticks Made in USA



The body is machined from a billet of DuPont Delrin using custom tooling. It includes two 3/8-24 threaded female connectors to accept threaded rods for wire antennas and stick antennas. An Amphenol 83-1R SO-239 is used for legal-limit operation. Pricing is located below, after a brief review.

DuPont Delrin, while expensive, has the following important features for use as a center insulator:

- Tensile Strength: 10,000 psi
- Rockwell Hardness: M94, R120
- Dielectric Strength: 500,000 volts/in
- Dielectric Constant: 3.7
- Dissipation Factor: 0.005
- Volume Resistivity: 1E+15 ohms-cm
- Water Absorption: 0.0022
- UV Resistant: Yes. But will dull/chalk with sun exposure.
- Chemical Resistant: Yes. Hydrocarbons, certain acids & bases.

The Delrin body, 1 3/8" dia. x 3 1/2" long, contains mounting features for the antenna connections, the SO-239, which sits in a pocket, and the optional stainless steel choke/balun Hanging Kit.

The SO-239 is a high-quality Amphenol 83-1R. It is mounted with QTY 4, 18-8 stainless steel pan head Phillips machine screws for full legal limit using reasonable loads.



The antenna connections are made using high-strength copper Alloy 360 to resist atmospheric corrosion. The material is certainly not cheap but the electrical connections are non-magnetic and are good/excellent conductors. The 3/8-24 threaded rod is Class 1A fit, minimum Rockwell hardness of B55, minimum tensile strength of 50,000 psi and elastic modulus of 14,100,000 psi. Each rod has a 1/8" diameter through hole to accept up to solid 10 AWG wire. The nuts have Class 2B thread fit and have dimensions that meet ANSI/ASME B18.2.2. The female connectors are 3/8-24 thread, Class 2B.

Delrin Center Insulator (without Rod Kit)	\$35
Includes Delrin body, 3/8-24 female connectors, mounted SO-239	
Delrin Center Insulator (with Rod Kit) for Wire Antennas	\$40
Includes Delrin body, 3/8-24 female connectors, mounted SO-239, Rod Kit	
Hanging Kit (optional)	\$8
QTY 3, #10-24 stainless steel eyes. Hang DCI from tree and hang a choke/balun.	
Rod Kit (spare, for quick antenna changes)	\$14
QTY 2 each, 3/8-24 threaded rod with 1/8" hole, flat washer, nut.	

Worldwide shipping is an extra charge, billed at cost from 14560 USA (assume 1lb to estimate). PayPal or USPS Money Orders are accepted. To order, please send an email to DCI@perluma.com for a total price, including shipping to your address. Discounts for volume purchases. Thank you.

Made in Springwater, NY, USA means:

1. Every \$1 of manufacturing activity returned \$1.48 to the US economy;
2. We're part of the 67% of private-sector R&D spending and 30% of USA productivity growth;
3. American hands and know-how were employed;
4. We're proud to contribute innovations to our friends around the globe.