19845 US Highway 76 Newberry, SC 29108 T: 800-800-9008 F: 803-276-8940

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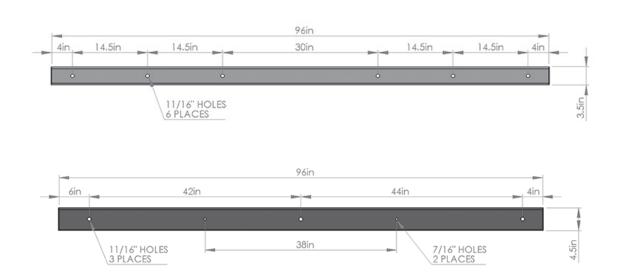
# HT-SERIES TANGENT CROSSARM MODEL - HTN096N00602REA

## Strong, Durable Composite Tangent Crossarm Assembly

Engineered for robust performance, Shakespeare fiberglass composite tangent crossarms support conductors along transmission and distribution lines. Shakespeare crossarms are a great choice for use on composite, concrete, steel, aluminum or wood utility poles. Often, composite crossarms are twice the strength and half the weight of their wood counterparts.

- 3-1/2" x 4-1/2" x 8 Tangent Assembly
- Lightweight Easy to Install
- Environmentally Safe
- No Preservatives
- Triple UV Protection
- Grey in Color

- Optimal Deflection Mitigation Design
- Will Not Rot, Splinter or Corrode
- Impervious to Insects, Woodpeckers
- Excellent Dielectric Properties
- Excellent Toughness and Impact Strength
- Standard Installation No Special Tools Needed



	ULTIMATE LOAD PER WIRE (lbs)	DEFLECTION PER 1000 (in)	WEIGHT (lbs)	MOMENT OF INERTIA ABOUT THE NEUTRAL AXIS (in <sup>4</sup> )	SECTION MODULUS ABOUT THE NEUTRAL AXIS (in³)	BENDING STRESS (psi)	MOMENT @ FAILURE (in/lbs)	FLEXURAL MODULUS (psi)
2 WIRE RATING	6800	0.39"	39	14.37	6.39	41,502	265,200	4.26E + 06

TESTING PER ASTM D8019-15 RUS LISTED



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#### REFERENCE STANDARDS

ASTM A153 (Zinc Coating); ASTM D635 (Burning of Self Supporting Plastics); ASTM G154 (Operating light and water exposure apparatus for non-metallic materials); ASTM D8019-15 (Determining the full section flexural modulus and bending strength of fiber reinforced polymer crossarms assembled with center brackets).

#### WEATHER AND UV PROTECTION

UV inhibitors shall be added to the resin system and the outside surface of the crossarm shall be covered with a polyester surface veil to prevent fiber bloom. Also, the arm shall be coated with a minimum of 1.5 mils of UV resistant coating. Crossarms shall be tested for a minimum of 15,000 hrs on the veil surface and 15,000 hrs on the coated surface or a combined test of 30,000 hrs with QUV-A per ASTM G154 with 4-hour light cycle and 4-hour humidity cycle.

#### **FOAM FILLING**

Crossarms shall be foam filled with a closed cell high density foam to prevent water ingress and must completely fill the crossarm and adhere to the inside walls.

#### MOUNTING BRACKET OR HARDWARE

Mounting brackets shall be manufactured from hot dipped galvanized steel using 50,000 psi steel. All bolts, nuts and other hardware to be hot dipped galvanized.

#### **END CAPS**

Crossarm shall be sealed with non-removable flush mounted inserts. External caps are not acceptable.

#### **MECHANICAL STRENGTHS**

The ultimate strengths should be listed per ASTM D8019-15. Compressive strength in both the vertical and horizontal directions shall be a minimum of 500 psi without permanent deformation or damage to the fiber/ resin matrix.

#### **ELECTRICAL CHARACTERISTICS**

Fiberglass crossarms shall have an average 60 Hz BIL of no less than 15 kV/inch and an average wet 60 Hz BIL of no less than 12 kV/inch.

#### **IDENTIFICATION**

Each fiberglass crossarm shall be permanently marked with the manufacturer's name or logo and the date of manufacture.

#### **PACKAGING**

Fiberglass crossarm shall be shipped fully assembled.

