

ENGINEERING DEPARTMENT
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T & D MATERIAL SPECIFICATION

JPS Specification #: 8 mm ShieldWire-2017	Date: October 2, 2017
Item Stock: 020301003003	Supersedes: 8 mm (5/16") Shield Wire

Description: Wire, Shield, 8-mm diameter, extra high strength galvanized steel, class 'C', coated, 7 strands, left hand lay.

Application: For shielding transmission and distribution line from lightning strikes.

SPECIFICATION

The Shield Wire shall have a nominal diameter of 8-mm (5/16"), fabricated from extra high strength grade steel with class 'C' galvanized coating. The Shield Wire shall have seven (7) strands, left hand lay, manufactured and tested according to ASTM A-363 Standards. It shall conform to the following:

Stranding: 7 x 2.64	Area: 38.3 mm ²
Weight: 0.305 kg/m	Minimum ultimate Tensile Strength: 5085 kg
Final Modulus of elasticity: 19,000 kg/mm ²	Initial Modulus of elasticity: 17,000 kg/mm ²
Coefficient of linear expansion: 0.0000115/1°C	Standard Reel Length: 3,000m

Manufacturers shall complete the attached data sheet and submit it along with their bids.

Prepared By:

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Approved By:

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Manager
Engineering & Construction

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Manufacturer/Supplier	
Type and Material	
Catalogue No.	
Manufacturing Standard(s)	
Testing Standard(s)	
Stranding	
Area (mm ²)	
Diameter (mm)	
Weight per Unit Length	
Ultimate Tensile Strength	
Modulus of Elasticity (Final & Initial) (kg/mm ²)	
Coefficient of Linear Expansion	
Standard Length of Cable on Reel	