

**ENGINEERING & STANDARDS DEPARTMENT  
693A Spanish Town Road, Kingston 11  
Tel. 937-9200-9399, Fax 937-9259  
T & D MATERIAL PURCHASING SPECIFICATION**

<b>JPS SPECIFICATION: CCPVC-4/0-2010-15</b>	<b>DATE: October 20, 2015</b>
<b>ITEM STOCK: 50315</b>	<b>SUPERSEDES: All Previous</b>

**DESCRIPTION: Conductor, Copper, 19 Strands, PVC, PE or XLPE Insulated, Single, Overhead, 120 mm<sup>2</sup> (#4/0 AWG), Ampacity 340 Amps, 600V.**

**APPLICATION: To be used for wiring on overhead distribution lines and equipment.**

**SPECIFICATION**

**Conductor, Copper, 19 Strands, PVC, PE or XLPE Insulated, Single, Overhead, 120 mm<sup>2</sup> (#4/0 AWG), Ampacity 340 Amps, 600V; to be used for wiring on overhead distribution lines and equipment.**

Conductor shall be manufactured from hard drawn copper and consist of nineteen strands. Conductor shall have a cross sectional area of 120mm<sup>2</sup>. The insulation shall be manufactured from a flame and moisture retardant, oil and sunlight resistant polyvinylchloride (PVC) compound, polyethylene (PE) or cross-linked polyethylene (XLPE). Nominal insulation thickness shall be 80 mils. Conductor shall be suitable for use in wet or dry locations of maximum temperature 75°C. Conductor shall be suitable for 340-ampere operation in air.

The conductor shall be permanently marked in bright colours (orange/yellow) every 3ft along its length 'Manufacturer's Name, 4/0 AWG, CU, 600V PE, XLPE or PVC, Date, PROPERTY OF JPS.' The markings on the cable shall be legible from 7ft away. Conductor shall be packaged on reels with maximum gross weight 650 kilograms.

The manufacturer/Supplier shall provide at the time of tendering a complete data sheet outlining the cable's construction, insulation, mechanical and electrical characteristics, dimensions and packaging details.

**Conductor shall be manufactured in accordance with ANSI/NEMA WC 70-2009 ICEA S-95-658-2009 standards.**



**Prepared by:**

*S. Whilby 20-Oct-15*

**Shevon Whilby  
Transmission & Distribution Engineer  
Engineering & Construction Department**

**Approved by:**

*Osawaki Wickham 02/21/2015*

**Osawaki Wickham, P. E.  
Manager  
Engineering & Construction Department**

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Manufacturer/Supplier	
Catalogue No.	
Manufacturing Standard(s)	
Voltage Rating (V)	
Insulation Type	
Testing Standards (s)	
Stranding	
Area (mm <sup>2</sup> )	
Diameter (mm)	
Weight per Unit Length (kg/km)	
Ultimate Tensile Strength	
Modulus of Elasticity (Initial & Final)	
Coefficient of Linear Expansion	
Standard Length of Cable on Reel (m)	