

ENGINEERING DEPARTMENT
693A Spanish Town Road, Kingston 11
Tel 937-9320-5, Fax 937-9259
T & D MATERIAL SPECIFICATION

JPS Specification #: SCOREPVC_2018

Date: June 12, 2018

Item Stock:

Supersedes: All Previous

Description: Single core 1 kV, 750 MCM (400mm²). PVC Insulated, PVC Sheathed, Copper Cable

Application: To be used for secondary underground distribution in conduit systems; suitable for use in wet or dry locations, direct burial, underground duct, and where exposed to sunlight. To be used at 1,000 volts or less and at conductor temperatures not to exceed 105°C for normal operation

SPECIFICATION

The PVC Insulated, PVC Sheathed, copper conductor shall be predominantly used for secondary underground distribution in conduit systems; suitable for use in wet or dry locations, direct burial, underground duct, and where exposed to sunlight. To be used at 1,000 volts or less and at conductor temperatures not to exceed 105°C for normal operation.

The cable shall be fire resistance, oil resistance, UV resistance and flame retardant.

Nominal Cross Sectional Area (mm²)	400
Overall Diameter (mm)	35.5
Rated Voltage (V)	1000
DC Resistance at 20°C (Ω/km)	0.047
AC Resistance at 70°C (Ω/km)	0.061
Minimum Current Carrying Capacity at 30° C (A)	550
Short Circuit Current at 1 sec (kA)	41.2
Cable Weight (kg/m)	4087


The cables shall be suitable package on reels in 500m length.

Each reel must be clearly marked or tagged (manufacturer's standard showing legibly all essential information such as product identification, item description (conductor type and size) Length and Gross, Tare and Net Weight.

The insulated low voltage cable shall be NYY1 or approval equal.

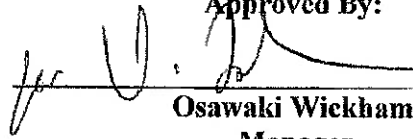


Prepared By:

 12/6/2018

Ryan McPherson
T&D Project Engineer

Approved By:

 12/6/18

Osawaki Wickham
Manager
Engineering & Standards