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July 15, 2021

**TO:** All Prospective Bidders

**FROM:** Trent Ensley, Procurement Manager

**SUBJECT: ADDENDUM NO. 1**  
**PWC2122006 - CABLE 1/0 AL & 750 MCM AL**

1. The Specification and Bid Documents are hereby modified or clarified per attached documents.
2. The foregoing changes or clarifications shall be incorporated in the original Bid Documents and a signed copy of this Addendum No.1 shall accompany the bid to acknowledge the bidder's receipt and familiarity with changes and/or clarifications.

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Acknowledgement:

Company\_\_\_\_\_

By\_\_\_\_\_

Date\_\_\_\_\_

Public Works Commission  
Fayetteville, NC  
Electric Systems Division  
**Material Specification**

1-065-510

Revision Date: July 15, 2021  
Revised By: Glenn Andersen

**CABLE, 1/0 AL, EPR, 25KV, 1/C, CN**

**Description:**

Underground primary distribution cable for installation in duct or direct burial rated 90°C, wet or dry, consisting of the following components:

**Conductor:** Solid, #1/0 AWG, EC-1350 aluminum alloy, ASTM B609

**Conductor Shield:** Minimum 12 mil, semi-conducting, extruded, compatible, strippable

**Insulation:** 260 mil, extruded, thermosetting ethylene propylene rubber (EPR)

**Insulation Shield:** Minimum 30 mil, free-stripping, semi-conducting

**Neutral:** Bare copper concentric, full neutral (16 x #14 or equivalent)

**Outer jacket:** 45 mil, linear low-density polyethylene (HMWPE/LLDPE)

**Nominal outside diameter:** 1.20 inches

Conductor shield, insulation and insulation shield to be applied in a continuous triple extrusion process; bare copper concentric neutral helically applied and uniformly spaced per ICEA S-94-649. Cable shall be identified with manufacturer's name, size and type of conductor, thickness & type of insulation, sequential footage, rated voltage and year of manufacture. Jacket shall be extruded with 3 red stripes. Each reel shall indicate beginning and ending footage on side.

**Performance Standards:**

Conductor: ASTM B-231

Cable shall meet or exceed requirements of ICEA Standard S-94-649 and AEIC CS8-07.

**Delivery Standards:**

Cable ends shall be sealed at both ends. Cable will be wound and shipped on 5,000 foot (+/-4%) wooden reels, covered/wrapped during shipment, with a maximum flange diameter of 72 inches and drum diameter as specified by NEMA WC26. The arbor hole shall be reinforced with a steel plate as shown in the photograph on Page 2 of this specification. Cable shall be shipped in an upright **vertical** position on the flanges. It is preferred that cable should be delivered on open bed trailers suitable for unloading from either side.

PWC Warehouse personnel (910-223-4355) will be notified of delivery 24 hours in advance. Deliveries shall be accompanied by certified test reports, partial discharge plots, and engineering information per above ICEA Standards.

**Types Accepted:**

<i>Manufacturer</i>	<i>Product</i>
OKONITE	161-23-4069
PRYSMIAN	---
KERITE	---

Note - Catalog numbers are shown for reference use only. Supplier is responsible for conforming to the above specifications.

Specification reviewed by: \_\_\_\_\_

Public Works Commission  
Fayetteville, NC  
Electric Systems Division  
Material Specification

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Revision Date: July 15, 2021  
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CABLE, 1/0 AL, EPR, 25KV, 1/C, CN

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Public Works Commission  
Fayetteville, NC  
Electric Systems Division  
**Material Specification**

1-065-522

Revision Date: July 15, 2021  
Revised By: Glenn Andersen

**CABLE, 750 MCM AL, EPR, 25KV, 1/C, CN**

**Description:**

Underground primary distribution cable for installation in duct or direct burial rated 90°C, wet or dry, consisting of the following components:

**Conductor:** 750 kcmil, EC-1350 aluminum alloy, ASTM B-231, 61 strand, Class B, strand-filled

**Conductor Shield:** Minimum 20 mil, semi-conducting, extruded, compatible, strippable

**Insulation:** 260 mil, extruded, thermosetting ethylene propylene rubber (EPR)

**Insulation Shield:** Minimum 40 mil, free-stripping, semi-conducting

**Neutral:** Bare copper concentric, one-third neutral (15 x #10 or equivalent)

**Outer jacket:** 70 mil, linear low-density polyethylene (HMWPE/LLDPE)

**Nominal outside diameter:** 2.08 inches

Conductor shield, insulation and insulation shield to be applied in a continuous triple extrusion process; bare copper concentric neutral helically applied and uniformly spaced per ICEA S-94-649. Cable shall be identified with manufacturer's name, size and type of conductor, thickness & type of insulation, sequential footage, rated voltage and year of manufacture. Jacket shall be extruded with 3 red stripes. Each reel shall indicate beginning and ending footage on side.

**Performance Standards:**

Conductor: ASTM B-231

Cable shall meet or exceed requirements of ICEA Standard S-94-649 and AEIC CS8-07.

**Delivery Standards:**

Cable ends will be sealed at both ends. Cable will be wound and shipped on 1,500' (+/- 4%) wooden reels, covered/wrapped during shipment, with a maximum flange diameter of 72 inches and drum diameter as specified by NEMA WC26. The arbor hole shall be reinforced with a steel plate as shown in the photograph on Page 2 of this specification. Cable shall be shipped in an upright **vertical** position on the flanges. It is preferred that cable should be delivered on open bed trailers suitable for unloading from either side.

PWC Warehouse personnel (910-223-4355) will be notified of delivery 24 hours in advance.

Deliveries shall be accompanied by certified test reports, partial discharge plots, and engineering information per above ICEA Standards.

**Types Accepted:**

<b>Manufacturer</b>	<b>Product</b>
OKONITE	162-23-4096
PRYSMIAN	---
KERITE	---

**Note** - Catalog numbers are shown for reference use only. Supplier is responsible for conforming to the above specifications.

Specification reviewed by: \_\_\_\_\_



Public Works Commission  
Fayetteville, NC  
Electric Systems Division  
Material Specification

1-065-522

Revision Date: July 15, 2021  
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CABLE, 750 MCM AL, EPR, 25KV, 1/C, CN

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