Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat, SectionFormat,* and *PageFormat,* as described in *The Project Resource Manual—CSI Manual of Practice, Fifth Edition.*

This section must be carefully reviewed and edited by the Architect or Engineer to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all "Specifier Notes" after editing this section.

Section numbers are from *MasterFormat 2010 Update.*

SECTION 26 05 26.01
COMPRESSION AND MECHANICAL GROUNDING CONNECTORS

Specifier Notes: Delete any information below in Parts 1, 2 or 3 which is not required or relevant for the project.

PART 1 – GENERAL

1.01 SUMMARY

A. This section includes compression and mechanical grounding connectors for use in grounding grids and electrical systems, both Utility and commercial applications.

B. Related Sections:
1. Section 26 05 83.17 – Wiring Connections: Crimp Tools for Aluminum and Copper Lugs and Splices
2. Section 26 05 83.18 – Wiring Connections: Flexible Braided Connectors

1.02 REFERENCES

A. Underwriters Laboratories, Inc. (UL):
1. UL467 Grounding and Bonding Equipment
2. UL486A-486B Wire Connectors
3. UL486C Splicing Wire Connectors
4. UL1059 Terminal Blocks

B. Canadian Standard Association (CSA):
1. CSA C22.2 No. 41 Grounding and Bonding Equipment
2. CSA C22.2-65 Wire Connectors
3. CSA C22.2-188 Splicing Wire Connectors
4. CSA C22.1 Canadian Electrical Code Part I (CEC)

C. National Fire Protection Association (NFPA):
1. NFPA 70 National Electrical Code (NEC)

D. American National Standard Institute (ANSI):
1. ANSI C119.4 Electric connectors - connectors to use between aluminum-to-aluminum or aluminum-to-copper conductors

E. Institute of Electrical and Electronics Engineers (IEEE)
1. IEEE/ANSI C37.34 Standard Test Code for High-Voltage Air Switches

2. IEEE 837 Standard for Qualifying Permanent Connections Used in Substation Grounding

F. International Standards
   1. CEI/IEC 60480 Common specifications for high-voltage switchgear and control gear standards

G. Rural Utility Service (RUS)

H. National Electrical Manufacturers Association (NEMA)
   1. ANSI/NEMA CC 1 Electric Power Connection for Substations

1.03 SUBMITTALS

A. Comply with Section 01 33 00 – Submittal Procedures.

B. Product Data:
   1. Submit manufacturer's descriptive literature and product specifications for each product.
   2. Manufacturer's product drawings.

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications: Products shall be free of defects in material and workmanship.

B. Furnished products are listed, classified or approved by third party agencies as noted in the PRODUCTS section as suitable for the intended purpose.

1.05 WARRANTY

A. Product is warranted to be free of defects in material and workmanship.

B. Product is warranted to perform the intended function within design limits.

PART 2 – PRODUCTS

2.01 GENERAL

A. The connectors defined in this section shall be:
   1. E-Z-Ground® Compression Grounding Connectors
   2. Ground Rod Clamps
   3. Mechanical Grounding Connectors
   4. Ground Clamps
   5. Compression Taps
   6. Clamps
   7. Ground Plates
   8. Grounding Connectors
   9. Flexbraids

B. All compression grounding connectors shall use the appropriate Thomas & Betts crimping tool and die to assure the correct mechanical and electrical connection, and to maintain any third party approvals.

2.02 MANUFACTURERS

A. Acceptable Manufacturers:
Thomas & Betts Corporation
8155 T&B Blvd
Memphis, TN 38125
800-816-7809, 901-252-5000
www.tnb.com

Products: Blackburn® Grounding Connectors

2.03 DESIGN AND PERFORMANCE REQUIREMENTS

A. E-Z-Ground® Compression Grounding Connectors
1. E-Z-Ground® compression grounding connectors where applicable shall conform to IEEE standard 837 requirements.
2. E-Z-Ground® compression grounding connectors shall be approved for direct burial or in concrete applications.
3. E-Z-Ground® compression grounding connectors shall be UL Listed to UL467 and CSA Certified C22.2 No. 41.
4. E-Z-Ground® compression grounding connectors shall be prefilled with oxide inhibitor.
5. E-Z-Ground® compression grounding connectors shall be made from high conductivity copper alloy.
6. Figure 6 compression ground tap connector
   a. Figure 6 compression ground tap connector shall be of the 54855 series.
   b. Figure 6 compression ground tap connector shall be used for main and tap, cable to rebar or cable to ground rod applications.
   c. Figure 6 compression ground tap connector shall have a wire range of #4 to 500 kcmil.
   d. Figure 6 compression ground tap connector shall connect to ½", 5/8" or ¾" ground rod.
   e. Figure 6 compression ground tap connector shall connect to #3, #4, #5 or #6 rebar.
   f. Figure 6 compression ground tap connector shall be available with tin plating by adding a –TP suffix to the end of the catalog number.
7. Figure 8 compression ground rod tap connectors
   a. Figure 8 compression ground rod tap connectors shall be of the GR12-202 series.
   b. Figure 8 compression ground rod tap connectors shall be used for cable to ground rod applications.
   c. Figure 8 compression ground rod tap connectors shall have a wire range of #2 to 500 kcmil.
   d. Figure 8 compression ground rod tap connectors shall connect to ½", 5/8", ¾" or 1" ground rod.
8. Figure 6 to 8 compression ground rod to grid connectors
   a. Figure 6 & 8 compression ground rod to grid connectors shall be of the 54855LR12 series.
   b. Figure 6 & 8 compression ground rod to grid connectors shall be used ground rod to grid or cable to grid connections.
   c. Figure 6 & 8 compression ground rod to grid connectors shall have a wire range of #2 to 500 kcmil.
   d. Figure 6 & 8 compression ground rod to grid connectors shall connect to ½", 5/8", ¾" or 1" ground rod.
   e. Figure 6 & 8 compression ground rod to grid connectors shall be available with a tin plating by adding a –TP suffix to the catalog number.
9. Figure 6 to 8 compression ground grid connectors
   a. Figure 6 to 8 compression ground grid connectors shall be of the 54855L series.

b. Figure 6 to 8 compression ground grid connectors shall be used for cable to cable, cable to ground rod, or cable to rebar.
c. Figure 6 to 8 compression ground grid connectors shall have a wire range of #6 to 500 kcmil.
d. Figure 6 to 8 compression ground grid connectors shall connect to ½" and 5/8" ground rod.
e. Figure 6 to 8 compression ground grid connectors shall connect to #3 to #6 size rebar.

10. T and X connectors
    a. T and X connectors shall be of the GG21-21 series.
    b. T and X connectors shall be a one-piece construction.
    c. T and X connectors shall be used for cable to cable or cable to ground rod connections.
    d. T and X connectors shall have a wire range of #2 to 500 kcmil.
    e. T and X connectors shall connect to ½", 5/8" or ¾" ground rod.
11. 90º connectors
    a. 90º connectors shall be of the GRD2 series.
    b. 90º connectors shall be for cable to cable grid connections.
    c. 90º connectors shall have a wire range of #2 to 250 kcmil.
12. C-taps
    a. C-taps shall be of the CTP22 series.
    b. C-taps shall have a main and tap wire range of #6 to 500 kcmil.
    c. C-taps shall require #6 AWG conductors to be doubled.
13. Pigtail connectors
    a. Pigtail connectors shall be of the GR12-306 series.
    b. Pigtail connectors shall be a figure 8 construction.
    c. Pigtail connectors shall be used for connecting cable to ground rod.
    d. Pigtail connectors shall have a wire range of #6 to 4/0.
    e. Pigtail connectors shall be capable of handling two wires in a range of #6 to #2.
    f. Pigtail connectors shall connect to ½", 5/8" and ¾" ground rod.
14. Grounding plates
    a. Grounding plates shall be of the GP2250-2 series.
    b. Grounding plates shall be connecting grid cable to ground.
    c. Grounding plates shall have 3/8-16 UNC and ½-13 UNC thread holes for mounting.
    d. Grounding plates shall have a wire range of #2 to 500 kcmil.
15. I-beam ground clamp
    a. I-beam ground clamp shall be of the IBG2-10 series.
    b. I-beam ground clamp shall be for connecting cable to an I-beam or any structural steel member up to 1" maximum thickness.
    c. I-beam ground clamp construction shall consist of a C-clamp and a heavy duty compression lug.
    d. C-clamp shall be made from drop-forged high-grade steel, zinc plated.
    e. C-clamp shall have a breakaway bolt head that shears at predetermined torque to ensure a tight connection.
    f. Heavy duty compression lugs that cover a wire range of #2 to 500 kcmil.
16. Ground clamp
    a. Ground clamp shall be of the CC2C-45R series.
    b. Ground clamp shall be used to crimp to cable then clamp onto ground rod or rebar.
    c. Ground clamp cable crimp section shall be color coded for easy die identification.
    d. Ground clamp shall be furnished with ¼" stainless steel washer, bolt and nut.
    e. Ground clamps shall have a wire range of #3 to 4/0 AWG.
    f. Ground clamp shall connect to ½", 5/8" or ¾" ground rod.
    g. Ground clamp shall connect to 4/5" or 5/8" rebar.
17. Flat-surface ground clamp
    a. Flat-surface ground clamp shall be catalog number 53055FL or 53065FL.

b. Flat-surface ground clamp shall be used for connecting or terminating runs of cable to flat surfaces.
c. Flat-surface ground clamp shall have a keeper bar design to extend cable range and hold cable prior to crimping.
d. Flat-surface ground clamp shall be marked with conductor size range and die code.
e. Flat-surface ground clamp shall two bolts holes of 3/8" size.
f. Flat-surface ground clamps shall have a wire range 1/0 to 250 kcmil.

18. Bus bar connector
a. Bus bar connector shall be catalog number GBBC22 or GBBC26.
b. Bus bar connector shall be used to connect copper conductor to a ¼" copper bus bar.
c. Bus bar connector shall attach directly to copper conductors and bus bar with one crimp.
d. Bus bar connector shall not require drilling and tapping to attach to the bus bar.
e. Bus bar connector shall have a wire range of #6 to #2 AWG.

19. SnapTap™ connector
a. SnapTap™ connector shall be of the JP62 series.
b. SnapTap™ connector shall be used for bonding and grounding tap applications using solid copper, steel strand and/or ground rod.
c. SnapTap™ connector shall be installed with standard channel locks or pliers.
d. SnapTap™ connector shall be made from high-strength aluminum alloy with tin plating.
e. SnapTap™ connector shall be a one-piece design.
f. SnapTap™ connector shall provide an audible snap indicating the connection is complete and properly installed.
g. SnapTap™ connector shall be disassembled with the use of a flat-head screw driver.
h. SnapTap™ connector shall have a main and branch wire range of:
1) Main: #6 to #2 AWG solid copper
2) Tap: one or two #6 AWG solid copper
i. SnapTap™ connector shall connect to steel strand sizes of ¼", 5/16" or 3/8".
j. SnapTap™ connector shall connect to ½" ground rod.

20. Riser cable flag connectors
a. Riser cable flag connectors shall be of the GFL2-1 series.
b. Riser cable flag connectors shall be used to connect a single copper cable to copper bus bar.
c. Riser cable flag connectors shall have 3/8" bolt holes on 1" centers for fastening to the bus bar.
d. Riser cable flag connectors shall have a wire range of #2 to 1600/24 kcmil.

B. Ground Rod Clamps
1. Ground rod clamps shall be UL listed and CSA certified.
2. Ground rod clamps shall be listed for direct burial.
3. Ground rod clamps shall be made from high-strength corrosion resistant copper alloy.
4. Ground rod clamps shall have hex head bolts or socket set screws.
5. Ground rod clamps shall be available to cover the following ground rod sizes: 3/8", ½" 5/8", ¾" and 1".
6. Ground rod clamps shall be available to cover a wire range of #10 to 4/0 AWG.
7. Ground rod clamps shall be of the following series:
a. JWR: wide-range ground rod clamp
b. JAB12 & JAB12H series: socket set screw or hex head bolt ground rod clamps
c. G3 series: budget-line ground rod clamps
d. GG12 & GG12H series: heavy-duty socket set screw or hex head bolt ground rod clamps

C. Mechanical Ground Connectors
   1. Mechanical ground connectors shall have a UL listing and/or CSA certification.
   2. Mechanical ground connectors shall be of the following series:
      a. GTC13 series tower ground clamps
         1) GTC13 series tower ground clamps shall be made from high-strength corrosion resistant copper alloy.
         2) GTC13 series tower ground clamps shall use a square shank bolt to prevent turning while tightening the nut.
         3) GTC13 series tower ground clamps shall cover a wire range of 2/0 to 250 kcmil.
      b. CTG250 wide-range tower ground clamp
         1) CTG250 wide-range tower ground clamp shall be dual rated for both aluminum and copper conductors.
         2) CTG250 wide-range tower ground clamp may be used on aluminum or galvanized steel cable tray.
         3) CTG250 wide-range tower ground clamp shall have a ribbed neck on the bolt to prevent rotation during tightening of the nut.
         4) CTG250 wide-range tower ground clamp shall have a tin plated body.
         5) CTG250 wide-range tower ground clamp shall have galvanized hardware.
         6) CTG250 wide-range tower ground clamp shall cover a wire range of #2 to 250 kcmil.
      c. Aluminum lay-in lug
         1) Aluminum lay-in lug shall be of the LL414 series.
         2) Aluminum lay-in lug shall be dual rated for both aluminum and copper conductors.
         3) Aluminum lay-in lug shall be made from high-strength, high-conductive aluminum alloy.
         4) Aluminum lay-in lug shall use a slotted of hex drive aluminum set screw.
         5) Aluminum lay-in lug shall be an open-faced design to allow easy inserting of the conductor.
         6) Aluminum lay-in lug shall have stud hole diameters of .22”, .27” or .33”.
         7) Aluminum lay-in lug shall be rated for 90ºC conductors.
         8) Aluminum lay-in lug shall cover a wire range of #14 to 250 kcmil.
      d. Copper lay-in lug
         1) Copper lay-in lug shall be CULL414 or CULL414TP.
         2) Copper lay-in lug shall be made from high-strength, conductive copper alloy.
         3) Copper lay-in lug shall be listed for direct burial.
         4) Copper lay-in lug shall use a stainless steel slotted set screw.
         5) Copper lay-in lug shall have a stud hole diameter of .22”.
         6) Copper lay-in lug shall cover a wire range of #14 to #4 AWG.
         7) Copper lay-in lug shall be rated for 90ºC conductors.
         8) Copper lay-in lug CULL414TP shall be tin plated.
      e. Service post connectors
         1) Service post connectors shall be of the SP-S (short stud) series of SP-L (long stud) series.
         2) Service post connectors shall be available in single or double conductor constructions.
         3) Service post connectors shall be used to ground one or two copper cables to steel structure or transformer.
         4) Service post connectors shall be made from high-strength, corrosion resistant copper alloy.
         5) Service post connectors shall have hex designed bolts and nuts for easy installation.
         6) Service post connectors shall cover a wire range of #12 to 500 kcmil stranded copper and #12 to #2 solid copper.

D. Ground Clamps
1. Ground clamps shall be UL listed and/or CSA certified.
2. Ground clamps shall be used for connecting grounding conductors to ground rod or pipe.
3. Ground clamps shall be available to cover IPS pipe ranges of 3/8" to 4" and water pipe ranges of ½" to 12".
4. Ground clamps shall be available to cover ground rod ranges of 5/8" to 4-1/2".
5. Ground clamps shall be available to cover wire ranges #8 to 250 kcmil.
6. Ground clamps shall be of the following series:
   a. GUV584 series: U-bolt design, cast or forged copper alloy
   b. 2-TB and 3902 series: U-bolt waterpipe ground clampls
   c. AJ series: tin plated aluminum with zinc plated steel screws for use with copper or aluminum conductors
   d. BJ-1 series: die cast zinc with zinc-plated steel screws
   e. JD series: cast bronze with zinc plated steel screws
   f. JDLI: cast bronze with stainless steel hardware for direct burial
   g. JA series: cast bronze with zinc plated steel hardware for connecting armored cable to water pipe.
   h. 10105 & 10109: zinc plated malleable iron cable tray ground clamp.
   i. 6209 series: swivel tray clamp, zinc plated malleable iron with hardened zinc plated steel screws.
   j. TGC: beam ground clamp, high conductivity copper alloy with tin plated steel bolt.

E. Compression Taps:
1. Compression taps shall be of the CC 48 series.
2. Compression taps shall be made from pure electrical grade copper for a high conductivity, low resistance, reliable connection.
3. Compression taps shall have the following wire range size:
   a. A groove: #6 to 4/0 AWG
   b. B groove: #8 to 4/0 AWG
4. Compression taps shall be marked with the die reference for easy identification.
5. Compression taps shall be RUS accepted.

F. Clamps:
1. Blackburn® XT series clamps
   a. Blackburn® XT series clamps shall be used for Tee taps, cross, parallel and end to end connections.
   b. Blackburn® XT series clamps shall be made from a copper alloy casting for high strength.
   c. Blackburn® XT series clamps shall use silicone-bronze bolts for durability.
   d. Blackburn® XT series clamps shall handle a main wire range of #1 to 1000 kcmil.
   e. Blackburn® XT series clamps shall handle a tap wire range of #6 to 1000 kcmil.
   f. Blackburn® XT series clamps shall have a tin plated option by adding a –P suffix to the catalog number.
2. Blackburn® DLC single U-bolt aluminum fitting series
   a. Blackburn® DLC single U-bolt aluminum fitting series shall be used for deadend loop connections.
   b. Blackburn® DLC single U-bolt aluminum fitting series shall be cast from high strength, heat treated aluminum-silicon alloy.
   c. Blackburn® DLC single U-bolt aluminum fitting series hardware shall be made from galvanized steel for strength and durability.
   d. Blackburn® DLC single U-bolt aluminum fitting series shall have a main and tap wire range of #6 to 1/0 AWG and ACSR.
   e. Blackburn® DLC single U-bolt aluminum fitting DLC2106 shall be RUS accepted.
3. Blackburn® HLC series hot-line clamps
   a. Blackburn® HLC series hot-line clamps shall have an eye-bolt coated with grease to ensure turning in all weather conditions.

a. Blackburn® HLC series hot-line clamps shall have a ACSR wire range of #6 to 397.5 main and #6 to 3/0 AWG tap; #8 to 400 kcmil main and #8 to 4/0 AWG tap.
b. Blackburn® HLC series hot-line clamps shall be available in the following materials:
   i. Bronze for copper to copper connections.
   ii. Plated bronze for general purpose connections.
   iii. Plated aluminum for general purpose connections.
c. Blackburn® HLC series hot-line clamps shall be RUS accepted.
d. Blackburn® HLC series hot-line clamps shall be available pre-filled with oxide inhibitor by adding a 9 suffix to the catalog number.

4. Blackburn® PGH center-bolt parallel groove hot-tap clamps
   a. Blackburn® PGH center-bolt parallel groove hot-tap clamps shall be made from aluminum.
   b. Blackburn® PGH center-bolt parallel groove hot-tap clamps shall have an ACSR wire range of #8 to 397.5 main and #8 to 266 tap; #8 to 1000 kcmil main and #8 to 300 kcmil tap.
   c. Blackburn® PGH center-bolt parallel groove hot-tap clamps shall be available in copper for copper conductors of #8 to 2/0 AWG.
   d. Blackburn® PGH center-bolt parallel groove hot-tap clamps shall be available pre-filled with oxide inhibitor by adding a 9 suffix to the catalog number.

G. Ground Plates:
1. 5575 pole butt grounding plate
   a. 5575 pole butt grounding plate shall be an economical means of grounding systems or equipment over wrapping pole butt with copper wire.
   b. 5575 pole butt grounding plate shall have four moisture retaining cups embossed into the solid plate to help maintain a better ground.
   c. 5575 pole butt grounding plate shall accommodate up to a #2 AWG ground wire.
   d. 5575 pole butt grounding plate shall be RUS accepted.
2. Blackburn® 1016TB and 1016BTB galvanized ground plates
   a. Blackburn® galvanized ground plates shall be ¼" thick hot-dipped galvanized steel.
   b. Blackburn® galvanized ground plate 1016BTB shall include JAB58H ground clamp for a more secure ground connection.
   c. Blackburn® galvanized ground plates must be buried a least 24' below finish grade level according to CEC 10-702 rule.
   d. Blackburn® galvanized ground plates shall have a ground wire range of #8 to 1/0 AWG.
   e. Blackburn® galvanized ground plates shall be CSA certified.
3. Blackburn® GP series copper pole bottom ground plates
   a. Blackburn® GP series copper pole bottom ground plates shall be used for multi-grounded neutral construction.
   b. Blackburn® GP series copper pole bottom ground plates shall be available with a built-in pressure connector (#8 to #2 AWG wire range), or with #6 AWG copper pigtail attached.
   c. Blackburn® GP series copper pole bottom ground plates shall be RUS accepted.
4. Blackburn® PB series copper pole ground plates
   a. Blackburn® PB series copper pole ground plates shall provide a low resistant neutral ground.
   b. Blackburn® PBGW copper pole ground plates have a silicon-bronze nut and lockwasher for corrosion resistance and strength.
   c. Blackburn® PBGW copper pole ground plates have a ground wire range of #10 to 2/0 AWG.
   d. Blackburn® PBH copper pole ground plates have a riveted all-copper lug with ground wire range of #14 to #4 AWG.

H. Grounding Connectors:
1. Blackburn® K1 bronze jumper clamp
   a. Blackburn® K1 bronze jumper clamp shall be used to make connections between aluminum or galvanized steel and copper or copper bonded steel wire.
   b. Blackburn® K1 bronze jumper clamp shall have a silicon-bronze bolt and lockwasher to minimize loosening.
   c. Blackburn® K1 bronze jumper clamp shall have a parallel groove design to eliminate bolt removal for installation.
2. Blackburn® TTC transformer tank ground connectors
   a. Blackburn® TTC transformer tank ground connectors shall fit on all standard EEI-NEMA distribution transformers.
   b. Blackburn® TTC transformer tank ground connectors shall have a 1/2"-13 stud for grounding conductors from #8 to 2/0 AWG.
   c. Blackburn® TTC2 transformer tank ground connectors shall have a rotating eyebolt for accommodating cable in either vertical or horizontal direction.
3. Bronze ground connectors for copper 2709 T series
   a. Bronze ground connectors for copper 2709 T series shall support a conductor range of #8 to 1000 kcmil.
   b. Bronze ground connectors for copper 2709 T series shall be made of high strength bronze for corrosion resistance and durability.
   c. Bronze ground connectors for copper 2709 T series shall be supplied with a copper alloy ¼” bolt, washer and nut.
   d. Bronze ground connectors for copper 2709 T-1 series shall support one ground conductor to flat.
   e. Bronze ground connectors for copper 2709 T-2 series shall support two ground conductors to flat.
4. Bronze ground connectors for copper 2709 and 2710 series
   a. Bronze ground connectors for copper 2709 and 2710 series shall support a conductor range of #8 to 1000 kcmil.
   b. Bronze ground connectors for copper 2709 and 2710 series shall be made of high strength bronze for durability and corrosion resistance.
   c. Bronze ground connectors for copper 2709 and 2710 series shall be supplied with a ¼” copper alloy bolt, washer and nut.
   d. Bronze ground connectors for copper 2709-1 series shall come with one bolt and support one ground conductor.
   e. Bronze ground connectors for copper 2709-2 series shall come with one bolt and support two ground conductors.
   f. Bronze ground connectors for copper 2710-2 series shall come with two bolts and support two ground conductors.
5. Ground connector series type 2752 and 2755
   a. Ground connector series type 2752 shall be used for running 2 or 3 conductors parallel to pipe or rod.
   b. Ground connector series type 2752 shall cover standard pipe sizes from 1/4" to 2” and rod diameter range from 1/2" to 1-1-/4”.
   c. Ground connector series type 2752 shall handle a conductor range from #8 AWG to 750 kcmils.
   d. Ground connector series type 2752 shall be made from bronze alloy.
   e. Ground connector series type 2755 shall be used for running one conductor parallel perpendicular to pipe or rod.
   f. Ground connector series type 2755 shall cover standard pipe sizes from 1/4" to 6” and rod diameter range from 1/2" to 1-1-/4”.
   g. Ground connector series type 2755 shall handle a conductor range from #8 AWG to 750 kcmils.
   h. Ground connector series type 2755 shall be made from bronze alloy.
   i. Ground connector series types 2752 and 2755 shall be in accordance to NEMA standard CC1.

I. Flexbraids:
   1. Flexbraids shall be used to connect transformers, generators or busbars wherever there is severe vibration or misalignment.
   2. Flexbraids shall have 99.9% pure copper ferrules on each end for high conductivity.
   3. Flexbraids shall have individual wire tinned prior to weaving for maximum corrosion protection.
   4. Flexbraids shall be available to cover an ampacity at 60ºC range of 350A to 4000A. The ampacity at 60ºC shall be based upon the temperature rise test per CEI/IEC 60694 and IEEE/ANSI C37.34.
   5. Flexbraids shall be available in the following series:
      a. FBE1H series – 1-hole NEMA extra-flexible
      b. FBE2H series – 2-hole NEMA extra-flexible
      c. FBE4H series – 4-hole extra flexible
      d. FBS1H series – 1-hole flexible series
      e. FBS2H series – 2-hole flexible series
      f. FBS4H series – 4-hole flexible series
   6. Flexbraids extra-flexible versions shall use 36 AWG individual wires in braid construction.
   7. Flexbraids flexible versions shall use 30 AWG individual wires in braid construction.

PART 3 – EXECUTION

3.1 INSTALLATION

A. Installation shall be in accordance with the NEC and CEC guidelines where applicable and manufacturer's instructions.
   1. All connectors shall have the cable stripped to the proper length as defined by the manufacturer.
   2. For the correct compression tool and die reference manufacturer's supplied literature.
   3. All connectors shall have the wire termination screws torqued to that specified by UL486A-486B, UL486C or the manufacturer's instructions.

END OF SECTION