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| Section L: Electrical | Effective Date: <u>01-01-2026</u> |
| <p>L 1 Tracer Wire (Solid Copper)</p> <p>L 1.1 Tracer Wire (Copper Clad Steel)</p> <p>L 2 Direct Bury Wire Splice Kit</p> | |

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| L 1 – TRACER WIRE (SOLID COPPER): | | Effective Date: <u>01-01-2026</u> |
| <p><u>SPECIFICATION:</u> Tracer wire shall meet or exceed the performance specifications of:</p> <ul style="list-style-type: none"> • Manufactured for the purpose of direct burial power applications in accordance with the National Electric Code. • Conductor shall be soft drawn bare copper meeting the requirements of ASTM Standard Specification B-3. • Shall be a minimum gauge size 10. • Conductor shall be solid strand. • Insulation shall be polyvinylchloride (PVC) or low density, high molecular weight polyethylene for applications of up to 600 volts. • Insulation shall be color coded per type service. • Shall be constructed in accordance with Underwriter Laboratories, Inc. • Thermoplastic Heat and Water resistant Nylon coated (THWN). <p><u>COLOR-CODED:</u></p> <ul style="list-style-type: none"> • Blue: Potable water • Green: Sanitary sewer/ force main | |   |
| <p><u>RESTRICTIONS:</u></p> <ul style="list-style-type: none"> • For use in mains and service lines installed by open cut. | | <p><u>MANUFACTURER:</u></p> <ul style="list-style-type: none"> • OPEN |

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| L 1.1 – TRACER WIRE (COPPER CLAD STEEL): | | Effective Date: <u>01-01-2026</u> |
| <p><u>SPECIFICATION:</u> Tracer wire (Copper-Clad Steel Wire) shall meet or exceed the performance specifications of:</p> <ul style="list-style-type: none"> • Conductor shall be copper-clad steel wire composed of a steel core with a uniform and continuous copper cladding thoroughly bonded to the steel throughout. • Cladding: The steel and copper Interface must have a metallurgical bond achieved through a high heat and pressure bonding process. Established process for porosity-free material. • Steel: Extra high strength with 0.54 carbon or greater. Verified to meet required mechanical properties. • Copper: UNS-C10200; of copper according to ASTM B-170 (latest revision). High conductivity, oxygen free copper to achieve optimal signal performance. • Shall be a minimum gauge size 12AWG (.0808" diameter). • Shall have an average tensile break load of 1100 lbs. • Conductor shall be solid strand. • Surface Condition; Shall be free of any defects, including flakes, grooves, pits, and voids. Wire shall be smooth, bright and shiny, and free of excessive copper dust and residual drawing lubricants. • Insulation shall be color coded per type service. <p><u>INSULATION & THICKNESS REQUIREMENTS:</u></p> <ul style="list-style-type: none"> • Insulation shall be high molecular weight-high density polyethylene (HDPE) jacket complying with ASTM-D1248, 30-volt rating. • 30 mil insulation for 2" to 8" pipe Installed by directional drill and all sizes installed by open cut. • 45 mil insulation for 10" and larger pipe and all subaqueous pipe installed by directional drill. <p><u>COLOR-CODED:</u></p> <ul style="list-style-type: none"> • Blue: Potable water • Green: Sanitary sewer/ force main |  | |
| <p><u>RESTRICTIONS:</u></p> <ul style="list-style-type: none"> • Required on pipe installed by horizontal directional drill or pneumatic installation. • Shall not be used in open cut installations. | <p><u>MANUFACTURER:</u></p> <ul style="list-style-type: none"> • Copperhead Industries LLC. - 1245X EHS • OPEN | |

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| <p>L 2 – DIRECT BURY SPLICE KITS:</p> | <p>Effective Date: <u>01-01-2026</u></p> |
| <p><u>SPECIFICATION:</u> Direct bury water proof wire connectors shall meet or exceed the performance specifications of:</p> <ul style="list-style-type: none"> • UL Standards 486D, direct bury wire splices. • Shall be compatible with THWN insulation thickness and AWG solid strand copper wiring. • Shall use a silicone insulating gel sealant. <p><u>DESIGN:</u></p> <ul style="list-style-type: none"> • Shall splice and effectively moisture seal three to four (minimum) # 10 conductors as part of the installation of tracer wire in pipe line construction. |  |
| <p><u>RESTRICTIONS:</u></p> | <p><u>MANUFACTURER:</u></p> <ul style="list-style-type: none"> • 3M- DBR-6 DIRECT BURY SPLICE KIT |