

Electric Motion Company Fiber to the Home Solutions



IDC Bond Clamp

The IDC Bond Clamp Series was developed to save time during installation and improve reliability of networks utilizing armored fiber cables in aerial and buried plant.

The IDC Bond Clamp uses “Vampire Teeth” to pierce the jacket of the cable and provide electrical continuity to the armor, does not require cutting into the jacket/sheath. The teeth are surrounded by waterproof gel to prohibit moisture/water ingress between jacket and armor and sit on a silicone pad that allows for expansion and contraction of the cable. The teeth are connected to a #10 post used to house a bonding harness terminal. The product line encompasses a Large, Medium, and Small Clamp which covers cable outside diameters from 1.3” - .25” in both aerial, vault, and direct burial applications.

In older plant, which requires new bonding and grounding points the IDC Bond Clamp is an ideal alternative to putting new low-cost products in the splice case, as they can be installed without disturbing the splice case.



IDC Bond Clamp Part Numbers

- **EM-80130-PS** accommodates cable OD's .80” - 1.3” (Large)
- **EM-4879-ALT-PS** accommodates cable OD's .48” - .79” (Medium)
- **EM-2546-PS** accommodates cable OD's .25” - .46” (Small)

IDC Bond Clamp Closure

In vault and direct burial applications it is recommended that a closure is used to house the IDC Bond Clamp, given the potential for water to collect in proximity or around the IDC Bond Clamp. The closure houses waterproof gel that will encompass the IDC Bond Clamp and works as a secondary seal to the waterproof gel used around the “Vampire Teeth”. There is a slot within the assembly for the bonding harness to travel through the closure parallel to the cable.



IDC Bond Clamp Closure Part Numbers

- **EM-80130-C** (Large)
- **EM-4879-C** (Small/Medium)

Fiber Flat Drop Connectors

The Flat Drop Connectors Series was developed to simplify the process of installing a bonding or grounding point on a locatable flat drop cable with an embedded locate wire. Used in vaults, pedestals, ONT's and ONU's. Suitable for all fiber flat drop cables with #24 AWG locate wire that is separable. Doesn't require stripping of the locate wire, simply snapping the connector together provides the force needed to pierce the jacket of the locate wire, while not damaging the locate wire.

The Flat Drop Connector uses "Baby Teeth" to pierce the jacket of the locate wire and provide electrical continuity to the locate wire. The teeth are surrounded by waterproof gel to prohibit moisture/water ingress between jacket and locate wire. The teeth are connected to a #10 post used to house a bonding harness terminal. The product line encompasses stand alone connectors as well as kits with the connector and a bonding harness. Bonding harness are available in #14 AWG and #12 AWG stranded wire with green PVC insulated tin plated copper and accompanying #12/10 AWG and #14 AWG ring terminals.



Flat Drop Connector Part Number

- EM-9182B

Flat Drop Connector Part Number Kits

- EM-9182B-1224-RR10 comes with 24" #12 AWG with two # 12/10 AWG ring terminals
- EM-9182B-1424-RR10 comes with 24" #14 AWG with two # 14 AWG ring terminals
- EM-9182B-1470-RR25 comes with 70" #14 AWG with two # 14 AWG ring terminals
- EM-9182B-1412-RR25 comes with 12" #14 AWG with two # 14 AWG ring terminals

Swing Arms

Vaults/handholds trap water, dirt and debris. The Swing Arm Series helps increase the longevity, reliability and accessibility of multi service terminal and splice cases by keeping them off the ground with adequate slack storage for cable management. Ideal for use with pre-terminated drops and splices cases in high foot traffic areas. Swings Arms secure to the side wall of the vault and pivot from 180 degrees to 90 degrees with 12" telescoping feature. Designed to accommodate a variety of splice cases and multi service terminals.



Swing Arm Part Numbers :

- EM-9286-9287-TSWA for 17' x 30' vaults
- EM-9286-9289-TSWA for 24' x 36' vaults
- EM-9287-TSWA for 30' x 48' vaults

Isolation Ground Switch

The IGS series was developed to reduce and simplify locating jobs in the field. Provides a convenient and reliable means for bonding and un-bonding up to five #6 AWG - #24 AWG ground wires with .25" terminal and one position for #6 AWG for connecting to ground rod. Switch functions in North and South positions. North position, all ground wires are un-bonded and easy to isolate and in South position all ground wires are bonded to ground. In North position, locate technicians simply needs to clip onto the appropriate post to start locating job. Stray voltage test port cut out on top of handle. Made from engineering grade thermoplastic and tin-plated brass components.



Isolation Ground Switch Part Numbers

- **EM-9125-OR** comes with Marker Post mounting hardware
- **EM-9125-OR-VB** comes with Vault Bracket mounting hardware
- **EM-9125-OR-PB** comes with Pedestal Bracket mounting hardware

Isolation Ground Puck

The IGP Series was developed to reduce and simplify locating jobs in the field. Provides continuity through the connector for locating through vaults. Mountable to the sidewall of a vault. The Isolating Ground Puck Series of products accepts mule tape, locate wires, and tone-able flat drop cable from #22 AWG - #26 AWG and copper clad wire from #10 AWG to #12 AWG. No stripping of the wire is required, simply insert the wires into the circular cut outs on the side of the Puck until the wire bottoms out. Puck functions in North and South positions. North Position is unbonded and South position is bonded. In the closed position, simply press the lever and slide to North position to un-bond it and retract wire needed to start locating. Constructed of engineering grade thermoplastic, tin-plated brass components, and filled with waterproofing gel.



Isolation Ground Puck Part Numbers

- **EM-9160:** 6 positions for #22 AWG - #26 AWG and 1 grounding connection for #6 AWG - #14 AWG, comes with screws to mount.
- **EM-9170:** 4 position for #12 AWG copper clad wire and 1 grounding connection for #6 AWG - #14 AWG, comes with screw to mount.
- **EM-9178G-BKT:** 8 positions for #22 - #26 AWG and 1 grounding connection for #6 AWG - #14 AWG, comes with a bracket for handhold mounting.