Bonding & Grounding Solutions
For Data Centers and Equipment Rooms

The electrical protection of today’s high-speed cabling systems is an essential part of a properly designed and installed information and communications technology (ICT) infrastructure. A bonding and grounding system will aid in controlling negative influences such as electromagnetic interference (EMI), electro static discharge (ESD) or ground potential rise from lightning.

Chatsworth Products (CPI) offers a comprehensive line of UL® Listed Bonding and Grounding Products, as well as racks and cabinets that feature integrated bonding provisions.

**Bonding and Grounding checklist:**

1. **Bonding Busbars**
   For each equipment room and telecommunications room, select a Secondary Bonding Busbar (SBB) with sufficient connections for the racks and tray in the room

2. **Rack-Mount Busbar Kits**
   For racks and cabinets, use a Rack Bonding Busbar (RBB) to provide an equipotential plane to protect equipment and patch panels that require bonding to the SBB

3. **Two Hole Ground Terminal Block**
   For racks and cabinets that do not have integrated bonding, use Bonding Terminal Blocks and Bonding Jumpers

4. **Ground Wire, Bonding Jumpers & Straps, and Stand-Off Tie-Down "L" Bracket**
   Bond racks and cabinets to the Busbar with Ground Wire or Jumpers and use Tie-Down "L" Brackets to support them. Use straps to electrically bond sections of cable runway

5. **Compression Lugs and Taps**
   Use Compression Lugs and Taps to connect Ground Wire and Bonding Jumpers to Busbars, racks, cabinets, cable runway or other conductors

6. **Antioxidant Joint Compound**
   Use Joint Compound when making bonding connections between metal surfaces on Racks, Cabinets, Cable Runway, Cable Tray and Busbars

7. **Pedestal Clamp with Bonding Conductor**
   For raised floor pedestals that are bonded together, use Pedestal Clamps to bond them to the SBB
Primary and Secondary Busbars
Includes: (1) Busbar, (2) insulators, (2) Stand-off brackets (6.6’H x 3.1’D (168 mm x 80 mm)), (4) Stainless steel bolts with Torx T-45 head • All Busbars ship individually and preassembled • UL Listed, File E236184, Category KDER (US), KDER7 (Canada)

Compression Lugs
Connect copper or tinned copper conductors to Busbars, racks, cabinets or Cable Runway. • Manufactured from electroplated tinned copper conductors • Available individually or in bulk quantities in 3 styles; Two-Hole, Slotted and 90˚ Slotted

Ground Wire, Bonding Jumpers & Straps
Rack Bonding Jumper Kit, Equipment Bonding Jumper Kit and Cable Runway Bonding Trap are UL Listed, File E236184; Category KDER (US), KDER7 (Canada)

Joint Compound
Recommended for all copper-to-copper connections, copper threads and all mechanical/pressure type bonding.

Pedestal Clamp with Bonding Connector
Manufactured from electroplated tinned copper or bronze (P/N 40169-003) with stainless steel installation hardware • PNs 40169-001 and 40169-002 are UL Listed

For additional Bonding and Grounding information, visit us at: chatworth.com/en-us/products/bonding-grounding/bonding-hardware

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Rev.5  07/20  MKT-60020-354