

# MEPNN Supplier Scouting Opportunity Synopsis

## Section 1: General Information

Scouting Number	2026-189
Item to be Scouted	BABA: Electrical Receptacles
Days to be scouted	14
Response Due By	05/15/2026
Description	An electrical receptacle is a noncurrent-carrying wiring device that provides a safe, standardized interface between building wiring and plug-in appliances. It contains contact assemblies that grip the blades of a plug and deliver power.

## Section 2: Technical Information

Type of supplier being sought	Manufacturer
Reason	BABA
Describe the manufacturing processes (elaborate to provide as much detail as possible)	<p><b>1-Prepare Raw Materials</b> All metal and plastic components must be prepared before molding or stamping begins.</p> <ul style="list-style-type: none"> <li>-Dry thermoplastic resin (nylon or polycarbonate) to remove moisture</li> <li>-Cut brass or phosphor-bronze strips for contacts</li> <li>-Prepare steel for mounting strap stamping</li> <li>-Stage screws, grounding clips, and shutter components</li> </ul> <p><b>2-Injection Mold the Receptacle Body</b> The insulating body is formed using high-temperature, high-pressure molding.</p> <ul style="list-style-type: none"> <li>-Inject molten nylon/polycarbonate into multi-cavity molds</li> <li>-Form front face, back body, and internal partitions</li> <li>-Cool and eject molded parts</li> <li>-Trim gates and runners for clean edges</li> </ul> <p><b>3-Stamp and Form Metal Components</b> Contacts and mounting straps are produced from precision-stamped metal.</p> <ul style="list-style-type: none"> <li>-Stamp brass/phosphor-bronze into hot, neutral, and grounding contacts</li> <li>-Form spring arms for plug retention</li> <li>-Punch and bend steel mounting straps</li> <li>-Apply tin or nickel plating to terminals if required</li> </ul> <p><b>4-Assemble Contact System</b> Internal conductive parts are assembled into the molded body.</p> <ul style="list-style-type: none"> <li>-Insert hot and neutral contact assemblies into body channels</li> <li>-Install grounding clip and bond it to the mounting strap</li> <li>-Add terminal screws and pressure plates</li> <li>-Verify alignment for plug insertion</li> </ul> <p><b>5-Install Safety Features</b> Modern receptacles require tamper-resistant and grounding components.</p> <ul style="list-style-type: none"> <li>-Add tamper-resistant shutters to the face</li> <li>-Install shutter springs and guides</li> <li>-Add insulating barriers between hot and neutral paths</li> <li>-For GFCI/AFCI models: mount PCB, CT sensors, and test/reset mechanism</li> </ul> <p><b>6-Join Face and Body</b> The receptacle is mechanically closed and secured.</p> <ul style="list-style-type: none"> <li>-Align faceplate openings with internal contacts</li> <li>-Ultrasonic weld, screw, or snap-lock the housing</li> <li>-Ensure handle ears and mounting strap are rigidly fixed</li> </ul>

Provide dimensions / size / tolerances / performance specifications for the item	<p>This is for a Multifamily Apartment. Typical dimensions and requirements. MHFA Project.</p> <p>Please see attached document. This has the cut sheets for receptacles, cover plates, and switches. These are manufactured by Leviton, who doesn't offer BABA compliant options.</p>
List required materials needed to make the product, including materials of product components	<p>1. Body, face, and insulation  Thermoplastic body:  Nylon or high-impact polycarbonate (heat- and impact-resistant)  Facepiece:  Same resin (nylon/PC), often color-matched (white, ivory, almond, etc.)  Internal barriers/insulators:  Glass-filled plastic or fiberboard inserts (between contacts and terminals)</p> <p>2. Current-carrying parts  Hot and neutral contacts:  -Brass or phosphor bronze stampings  -Sometimes tin-plated for corrosion resistance  Terminal clamps / back-wire plates:  -Brass or steel, often tin-plated  Grounding components:  -Ground terminal: brass or steel, green-finished  -Ground strap/yoke bonded to ground terminal</p> <p>3. Mounting strap / yoke  Material:  -Steel or brass  Finish:  -Zinc, nickel, or other corrosion-resistant plating  This is the metal frame that screws to the box and supports the device.</p> <p>4. Screws and hardware  Mounting screws:  Steel, zinc-plated (box mounting)  Terminal screws:  Brass (hot), silver-colored (neutral), green (ground)  Back-wire clamp screws (if used):  Steel or brass</p> <p>5. Safety and code features  Tamper-resistant shutters (TR):  -Small nylon or acetal shutter pieces  -Tiny stainless or music-wire springs  Gaskets / seals (for WR or spec-grade):  -Elastomer or rubber seals around face and terminals</p> <p>6. Electronics (for GFCI/AFCI/USB receptacles)  PCB substrate:  FR-4 fiberglass epoxy  Components:  Resistors, capacitors, diodes, ICs, relays, current transformers (CTs), MOVs  Leads and jumpers:  Tinned copper wire  (Standard duplex receptacles don't have these—only GFCI/AFCI/USB types.)</p>
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Are there any other standards, requirements, etc.?	No
Additional Technical Comments	This is for a three story 48 Unit Multifamily apartment over a one-story parking garage.

## Section 4: Business Information

Estimated potential business volume	Estimated 1,500
Estimated target price / unit cost information (if unavailable explain)	Estimated \$4,500.00
When is it needed by?	July 2027
Describe packaging requirements	Electrical receptacles require packaging that protects terminals, shutters, electronics, and cosmetic surfaces while maintaining low cost and high durability. The most critical elements are rigid cartons, internal partitions, ESD protection for smart devices, and stable palletization.
Where will this item be shipped?	Blaine Minnesota

## Additional Comments

Is there other information you would like to include?