SCOPE

The Electrical Trades Preferred Manufacturers List identifies manufacturers and suppliers who are known to provide good quality products, meet specification and schedule requirements, provide technical support, and provide service after the sales. This list is intended to regulate product quality, standardize electrical designs, and simplify maintenance activities. It is not intended to limit competition. It is not all inclusive. It is a list of manufacturers whose products are well known to the University due to their frequent and successful use.

This List shall be used by A/E’s when selecting manufacturers for specification in electrical designs. **A/E’S SHALL SPECIFY ONLY THE LISTED MANUFACTURERS THAT MEET THEIR PROJECT’S REQUIREMENTS, AND SHOULD SPECIFY A MINIMUM OF THREE MANUFACTURERS WHENEVER POSSIBLE.** A/E’s may specify manufacturers not on this list to satisfy project requirements, **BUT SHALL OBTAIN UNIVERSITY APPROVAL IN ADVANCE.**

This List **SHALL NOT** be used by Contractors to justify making substitutions for products specified in the construction documents. **CONTRACTORS SHALL PROVIDE THE PRODUCTS SPECIFIED IN THE CONSTRUCTION DOCUMENTS UNLESS THE UNIVERSITY APPROVED THEIR PROPOSED SUBSTITUTIONS AT THE TIME OF BID IN ACCORDANCE WITH THE PROJECT’S STANDARD GENERAL CONDITIONS.**

**THIS LIST DOES NOT APPLY** to purchases by the University Plant Department of replacement electrical products required to match or maintain existing installations.

This List is revised as needed. Before using it, check the AEC Website for the latest revision.
SECTION 260513 - MEDIUM, LOW & CONTROL VOLTAGE CABLES

Cables (Medium Voltage)
- General Cable
- Kerite
- Okonite
- Prysmian

Cables and Wire (600 Volts)
- Alan Wire
- Alan Wire and Cable
- American Insulated Wire
- Cerro Wire
- CME Wire and Cable, Inc.
- Encore
- General Cable
- Republic Wire
- Rockbestos-Surprenant
- Service Wire
- Southwire
- United Copper Industries

Type MC Cables (600 Volts)
- AFC
- Encore
- Kaf-Tech
- Northern Cable Incorporated
- Rockbestos-Surprenant
- Service Wire
- Southwire
- United Copper Industries

2-Hour Fire Rated Cables (600 Volts)
Pyrotenax Mineral Insulated (Type MI) by Pentair

Control Cables and Wire
- Belden
- Coleman

Cable Splices for Medium Voltage Cable
- Raychem

Cable Terminations for Medium Voltage Cable
- Raychem

SECTION 260526 - GROUNDING & BONDING FOR ELECTRICAL

Ground Connections
- Burndy Hyground (Proper dies must be used)
- Cadweld
- Harger Lightning & Grounding
- Thermoweld
- Thomas & Betts Blackburn (Above grade only)
SECTION 260533 - ELECTRICAL MATERIALS AND METHODS
Cable Trays - Center Spline and Wall Mount Types (Use only where ladder and wire basket trays cannot be used, and only with ITCS (Campus projects) or MCIT (UMHHC projects) approval)
- B-Line
- Legrand Cablofil
- Mono-Systems
- Thomas & Betts

Cable Trays - Ladder Type
- B-Line
- Chalfant
- Cope
- Globetray (GS Metals)
- Legrand Cablofil
- Mono-Systems
- MP Husky
- Thomas & Betts

Cable Trays – Wire Basket Type (Use only with ITCS (Campus projects) or MCIT (UMHHC projects) approval)
- Basor Electric Inc.
- B-Line
- Chalfant
- Cope
- Legrand Cablofil
- Mono-Systems
- MP Husky
- WBT

Conduits, Raceways and Accessories -
EMT, liquid-tight flexible metallic conduit, and/or non-liquid-tight flexible metallic
conduit/raceway; plus associated accessories, fittings, junction and pull boxes, and related products
Products of all manufacturers are acceptable as long as they are electro-galvanized steel, have a smooth interior, and are NRTL labeled for the application.

Rigid (galvanized metal), and IMC (intermediate metal) conduits/raceway, plus associated
accessories, fittings, junction and pull boxes, and related products
Products of all manufacturers are acceptable, as long as they are hot-dipped galvanized steel inside and out, have a smooth interior, and are NRTL labeled for the application. Boxes shall be cast, not formed. IMC may only be used when tools specifically designed for IMC are used.

PVC conduit/raceway (Type DB, Schedule 40, and Schedule 80), plus associated accessories, fittings, junction and pull boxes, and related products
Products of all manufacturers are acceptable as long as they are sunlight resistant, and NRTL labeled for the application. Products from manufacturers making both the conduit and the fittings are preferred whenever possible.

Fiberglass Reinforced Epoxy (FRE) conduit/raceways, accessories, fittings, and related products
- Champion
- FRE
Cord Reels
  Appleton
  Hubbell
  Reel-O-Matic Systems
  Woodhead

Electrical Enclosures
  Carlon (For use with PVC raceways)
  Hammond
  Haoffman
  Park Metal
  Rittal

Fire Stop Compounds
  A. D. Fire Protection Systems
  Flame Safe
  Hilti
  Nelson
  STI SpecSeal
  3M Company

Structural Support Materials
  Aickinstrut (Fiberglass)
  B-Line
  Champion (Fiberglass)
  G-Strut
  Hilti
  Powerstrut
  Unistrut

Surface and Underfloor Wireways
  Carlon
  Hubbell
  Legrand Evolution Floor Boxes
  Legrand Wiremold
  Panduit

SECTION 260543 - UNDERGROUND SERVICES FOR ELECTRICAL
Underground Hand Holes, Junction Boxes and Pull Boxes
  Carson-Brooks
  CDR Systems
  Quazite

SECTION 260800 - ELECTRICAL ACCEPTANCE TESTS
Nationally Recognized Testing Laboratory Services
  CSA
  ETL
  MET Laboratories
  UL (Northbrook, IL)

Testing Services
  Bisbee Infrared Services (Penny Wilson, (517) 787-4620)
Northern Electrical Testing (Lyle Detterman, (810) 689-8980)  
Utilities Instrumentation Services (David Wheeler, (734) 482-1450)

**SECTION 261100 - UNIT SUBSTATIONS**

**Non-Current Limiting Fuses (Primary)**
- Eaton/Cutler-Hammer Type RBA-400 (With high interrupting capacity adapter)
- S & C Type SM-5SS (With high interrupting capacity adapter)

**Current Limiting Fuses (Primary)**
- Eaton/Cutler-Hammer Type CLE
- Mersen, Type CL-14

**KWHR/Demand Meters**
- Schneider Electric PowerLogic ION8650 (With options per Master Spec 261100)

**15 kV Fused and Unfused Primary Switches (5kV rated switches may only be used for 5 kV (4,160 volt) class motors)**
- Eaton/Cutler-Hammer
- Powercon
- Square D

**15kV Metal Clad Switchgear and/or Circuit Breakers (5kv rated circuit breakers may only be used for 5 kV (4,160 volt) class motors)**
- Eaton/Cutler-Hammer
- Square D

**Circuit Breakers for 600-volt Class Secondary Switchgears and Switchboards**
- ABB (ASEA Brown Boveri); note that this does NOT include GE heritage products from the June 2018 acquisition
- Eaton/Cutler-Hammer
- Siemens

**Transformers**
- ABB (ASEA Brown Boveri); note that this does NOT include GE heritage products from the June 2018 acquisition
- Eaton/Cutler-Hammer
- MGM
- Olsun
- Square D
- Siemens

**Substation Assemblers (Using components from Preferred Manufacturers only)**
- ABB (ASEA Brown Boveri); note that this does NOT include GE heritage products from the June 2018 acquisition
- Eaton/Cutler-Hammer
- Siemens

**Addresses of above Assemblers**
- ABB (ASEA Brown Boveri)
- 12040 Regency Parkway
- Cary, North Carolina 27518
SECTION 262000 - LOW VOLTAGE ELECTRICAL DISTRIBUTION

Bus Ducts
- Eaton/Cutler-Hammer
- Siemens
- Square D

Fuses (600 Volts and Below)
- Bussmann
- Mersen Electrical Power (formerly Ferraz-Shawmut)
- Littlefuse

Surge Protective Devices
- Current Technology
- Eaton/Cutler-Hammer-Tycor
- Intermatic (For protection of individual loads and receptacle panels only)
- Leviton (For protection of individual loads and receptacle panels only)
- Liebert
- L.E.A. Dynatech
- Square D

Switchboards, Panelboards and Circuit Breakers
- Eaton/Cutler-Hammer (Only with U of M Lugs - confirm on shop drawings)
- Industrial Electrical Manufacturing (For custom and retrofit applications only)
- Siemens
- Square D

Time Switches
- Intermatic
- Paragon
- Sangamo
- Tork
Transformers (Liquid Filled and Dry Pad-Mounted Type)
Eaton/Cutler-Hammer
Olsun Electrics
Pennsylvania
Pioneer

Transformers (Distribution Dry Type)
Acme
Eaton/Cutler-Hammer
Hammond Power Systems
Hevi-Duty
MGM
Olsun Electrics
Siemens
Square D

SECTION 262726 - WIRING DEVICES
Line Voltage Lighting Controls

120/277 Volt, 20-Ampere Light Switches (Do not specify modular wiring switches, such as the Arrow Hart “ArrowLink”, Hubbell “Snap Connect”, Legrand “PlugTail”, Leviton “Lev-Lok”, etc. systems)
Arrow Hart (Cooper)
Bryant
Hubbell
Legrand Pass & Seymour
Leviton

Dimmer Switches
Leviton
Lithonia
Lutron

Occupancy Sensors (Infrared, Ultrasonic, Combination Infrared/Microphonic Dual Technology and Combination Infrared/Ultrasonic Dual Technology)
Cooper Controls (Eaton)
Hubbell
Legrand WattStopper
Leviton
Lutron
Sensor Switch
Tork

Low Voltage, Stand-Alone Room Lighting Control System
The following room control systems are intended to be utilized in spaces in which line voltage controls are unable to comply with ASHRAE 90.1 and other building codes. The intent is to provide simple control solutions in classrooms, offices, toilet rooms, corridors, small conference rooms, and similar spaces. The following systems are not intended to meet sophisticated control system criteria that may be required in auditoriums, theaters, arenas, executive level conference rooms, and similar complicated spaces. The following systems are low voltage, hard-wired, simple to maintain, user friendly, cost effective, and secure; they are not wireless and they do not require software, building networks, servers, firewalls, clouds, or specialty knowledge to operate or maintain.
AcuityControls nLight nPP16 Series
Eaton Cooper RC3 Series Room Controllers
Legrand Wattstopper LMRC Series Room Controllers

**Pin & Sleeve Connectors**
- Crouse-Hinds
- Hubbell
- Killark
- Legrand Pass & Seymour
- Leviton

**Power Poles**
- Hubbell
- Legrand Wiremold
- Mono-Systems
- Steelcase

**120-volt, 20-ampere Receptacles and Plugs (Do not specify modular wiring receptacles, such as the Arrow Hart “ArrowLink”, Hubbell “Snap Connect”, Legrand “PlugTail”, Leviton “Lev-Lok”, etc. systems)**
- Arrow Hart (Cooper)
- Bryant
- Hubbell
- Legrand Pass & Seymour
- Leviton

**120-volt, 20-ampere Receptacles (GFCI, Hospital Grade, TVSS & Child Resistant) (Do not specify modular wiring receptacles, such as the Arrow Hart “ArrowLink”, Hubbell “Snap Connect”, Legrand “PlugTail”, Leviton “Lev-Lok”, etc. systems)**
- Arrow Hart (Cooper)
- Bryant
- Hubbell
- Legrand Pass & Seymour
- Leviton

**Special Power Receptacles and Plugs**
- Arrow Hart (Cooper)
- Bryant
- Hubbell
- Legrand Pass & Seymour
- Leviton

**USB Charging Port Receptacles**
- Arrow Hart (Cooper)
- Bryant
- Hubbell
- Legrand Pass & Seymour
- Leviton
SECTION 262900 - MOTOR CONTROLS

Capacitors for Power Factor Correction
Aerovox
Eaton/Cutler-Hammer
Myron Zucker
Siemens
Square D

Motor Controls (MCC’s, Starters, Contactors, Disc. Switches and Control Devices)
Allen-Bradley
Eaton/Cutler-Hammer
Siemens
Square D

Motor Starters (Electronic Soft Starter Type)
Allen-Bradley
Eaton/Cutler-Hammer
Sprecher & Schuh

SECTION 263000 - ENGINE-GENERATOR SYSTEMS

Natural Gas Fired Engine-Generator Sets
Caterpillar
Cummins
Generac Industrial Power
Kohler
Olympian

Automatic and Manual Transfer Switches (Open and Closed Transition Types)
ASCO
Cummins
Eaton/Cutler-Hammer
GE Zenith Controls
Kohler

Automatic Transfer Switches (Soft-Loading Type)
ASCO
Eaton/Cutler-Hammer
Kohler

Resistive Load Banks
Avtron
Sephco
Simplex

SECTION 263300 - BATTERY EQUIPMENT

Batteries
C & D Technologies
Chloride Plante
Enersys
Johnson Controls
Battery Chargers
C & D Technologies
Enersys
Hi-Tran
LaMarche
SCI

Uninterruptible Power Supply Systems (Battery type)
A.P.C
Best (Individual small load units only)
Controlled Power
Liebert
MGE
Mitsubishi (Totally solid-state)
Toshiba

Rotary UPS Systems
Designed Power Solutions International (DPSI)

SECTION 264100 - FACILITY LIGHTNING PROTECTION
Lightning Protection Services
Guardian Equipment, Novi, MI (248) 449-5200
Harger Lightning & Grounding (via distributor Young & Champagne, 313-491-6500)
Michigan Lightning Protection, Grand Rapids, MI (616) 453-1174
Orion Services, Wixom, MI (248) 624-2120

SECTION 265100 - INTERIOR LIGHTING
Lighting Representatives
Each of the following lighting representatives serves over one hundred lighting manufacturers. After the Design Development phase, the lighting designer shall send a copy of the lighting fixture schedule to each of the lighting representatives below to request comments and recommended equivalents. The lighting designer shall evaluate the proposed recommendations to ensure design compliance and then incorporate equivalents into the lighting fixture schedule. The proposed lighting equivalents shall meet or exceed the design requirements as well as any other requirements in the U of M Design Guidelines.
Clarus Lighting & Controls
Madison Heights, MI
Paul Brennan, 248-677-0850
www.clarus-lighting.com

Gasser Bush Associates
Livonia, MI
Laura McRandall, 734-266-6705 x108
www.gasserbush.com

Michigan Lighting Systems – East
Troy, MI
Mike Marlow, 248-542-2200
www.mls.lighting

Resource Lighting Group
Berkley, MI
Shawn Stevenson, 248-545-9555
Ballasts (Electronic Compact Fluorescent)
   Aculite
   Advance Smart Mate
   Lightolier
   Prescolite

Ballasts (Electronic Rapid Start T-8 Fluorescent)
   Advance Optanium
   Bodine (For emergency lighting only)
   Osram/Sylvania Quicktronic Professional
   Universal AccuStart

Ballasts (Electronic Dimming T-8 Fluorescent)
   Advance Mark X (5% dimming type)
   Lightolier (1% dimming type)
   Osram/Sylvania (10% dimming type)

Emergency Power Ballasts (Electronic Rapid Start T-8 Fluorescent)
   Bodine (For emergency lighting only)
   Lithonia

Ballasts (H.I.D.)
   Advance
   MagneTek
   Universal

Dimming Systems
   AMX
   Crestron Electric, Inc.
   E.T.C.
   Leviton (Small single room systems only)
   Lithonia
   Lutron
   Strand (Stage lighting only)

Emergency Lights
   Chloride
   Dual-Lite
   Emergi-Lite
   Exide Lightguard
   Lightalarms
   Lithonia
   Sure-Lite

Exit Signs (LED)
   Chloride
Dual-Lite
Emergi-Lite
Exide Lightguard
Lightalarms
Lithonia
LSI Industries
Morlite (High abuse areas) (Philips)
Prescolite
Sure-Lites

Lamps
General Electric Ecolux
Osram/Sylvania Ecologic
Philips Alto
Venture (H.I.D. only)

Lighting Fixtures (Fluorescent)
Alkco (Philips) Kenall
Bartco Kirlin
Columbia Lightolier (Philips)
Cooper (Metalux) Linear Lighting
Day-Brite (Philips) Lithonia (Acuity)
Fail-Safe (Cooper) LSI Industries
Finelite Peerless (Acuity)
Focal Point Prudential
Guth (Philips) Quality (Philips)
Harris Visa
Holophane (Acutec) Williams
Hubbell Zumtobel
Keene

Lighting Fixtures (H.I.D.)
Best Kenall
Crouse-Hinds (Cooper) Lightolier (Philips)
Day-Brite (Philips) Lithonia (Acuity)
Fail-safe (Cooper) LSI Industries
General Electric Lumark (Cooper)
Guth (Philips) McGill
Harris Quality (Philips)
Holophane SPI
Hubbell

Lighting Fixtures (Compact Fluorescent and Incandescent)
Globe Lithonia (Acuity)
Gotham (Acutec) LSI Industries
Halo Omega (Philips)
Harris Prescolite (Hubbell)
Kenall Quality (Philips)
Kirlin Swivelier
Lightolier (Philips)
**Lighting Fixtures (LED)**
LED fixtures with a DesignLights Consortium (DLC) listing
LED fixtures with a U.S. Department of Energy (DOE) “LED Lighting Facts” label
LED fixtures with a U.S. Environmental Protection Agency (EPA) ENERGY STAR label
CREE
Man-D-Tec (Elevator cab lighting)

**SECTION 265600 - EXTERIOR LIGHTING**
**Lighting Fixtures (Outdoor Building, Parking Lot and Roadway with poles by fixture supplier)**
BEGA (Conditional Approval)
Gardco
Holophane
Kim (Hubbell) (Conditional Approval)
Lithonia Hi-Tek
LSI Industries
McGraw-Edison
Sterner
Wide-Lite (Philips)

**Lighting Fixtures (Outdoor Pedestrian Area with poles by fixture supplier)**
Lumec

**Photoelectric Lighting Controls**
Crouse-Hinds
Holophane
Hubbell
Intermatic
Tork

**SECTION 273523 – EMERGENCY RESPONDER RADIO COVERAGE**
**Emergency Responder Radio Services**
Comsourc Inc. (Mike Hilverding, 248-853-5430)
Continental Wireless (Breogan Link, 800-527-2000)
Extreme Engineering, Inc. (Jon Hintz, 734-709-1858)
Motor City Electric Technologies, a division of Motor City Electric Co.
(David Krausman, 313-957-3459)
RF Connect (Patrick Rhatigan, 734-891-5950)

**Emergency Responder Radio Signal Survey**
JDRM Engineering (Dave DesJardins, 419-824-2400)

**SECTION 275116 - PUBLIC ADDRESS & MASS NOTIFICATION SYSTEMS**
**Public Announcement and Sound Systems**
Aiphone Communications Systems
Atlas/Soundolier
Dukane
Rauland-Borg

**SECTION 275126 - ASSISTIVE LISTENING SYSTEM**
**Hearing Assistance Systems**
Phonic Ear (for classroom applications)
Sound Associates (for auditorium and theater applications)

**SECTION 275313 - CLOCK SYSTEMS**

**Central Clock Systems**
- Primex (GPS synchronous wireless)
- Simplex Time Recorder (through Simplex/Grinnell)

**Clocks (Battery Powered)**
- Edwards
- Franklin
- Howard Miller
- Primex (GPS synchronous wireless)

**SECTION 281300 - ACCESS CONTROL & MONITORING SYSTEMS**

**Card Access Control Systems**
- Diebold/CBORD (for Housing facilities)
- Software House (for Campus buildings)

**Card Access Control System Designers/Installers**
- Cabling Concepts (Tim Grady, 248-363-4200)
- Siemens (Chris Tingley, 734-456-3800 main, 734-386-6741 cell))
- Simplex/Grinnell (John Keith, 248-427-5050)

**SECTION 281600 - SECURITY SYSTEMS**

**Security Camera Systems**
Refer to the University of Michigan Division of Public Safety and Security (DPSS) web site [http://www.dpss.umich.edu/topics/cameras/](http://www.dpss.umich.edu/topics/cameras/) for technical requirements and a compatible hardware list.

**Security Systems**
- ADT Security Systems
- Faraday
- Radionics (For small systems only)
- Simplex Time Recorder

**SECTION 283100 - FIRE DETECTION & ALARM SYSTEMS**

**Fire Alarm Systems**
- EST (through Riverside Fire and Security only)
- Honeywell (UMHHC only)
- National Time & Signal
- Notifier
- Siemens
- Simplex (Tyco SimplexGrinnell)
- VESDA by Xtralis (for smoke sampling systems only; subsidiary of Honeywell)