



PRODUCT AND SERVICE LINE CARD

Essex Brownell is a global distributor of magnet wire, connectivity cable, lead wire, electrical and electronic insulation, tapes, motors, drives, repair parts, shop and test equipment.

essexbrownell.com



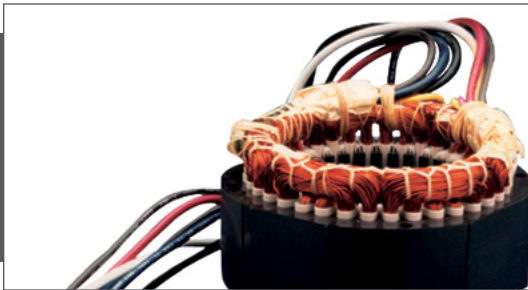
MAGNET WIRE

Round, square and rectangular copper and aluminum magnet wire is available with UltraShield Plus, Formvar®, Nylon, polyurethane, epoxy, polyester, ML®, polyimide, Dacron®, glass, paper, Nomex® or Kapton® insulation.

Temperature rating: 105° to 250° C

UL recognized, conforms to NEMA standards and available to military specifications.

MAJOR MANUFACTURERS: Essex | PPE | Elektrisola

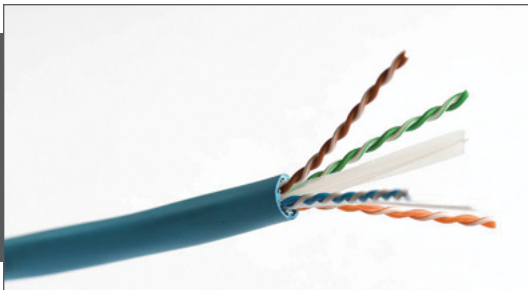


WIRE & CABLE

UL and CSA recognized styles including PVC, cross-linked, EPDM, CPE, silicone rubber, Hypalon and Teflon. Other offerings include lead wire, automotive wire, battery cable, welding cable, portable cord and bulk cord.

VALUE ADDED SERVICES: Cutting, Terminating, Dying, Twisting and Printing

MAJOR MANUFACTURERS: LS Cable | Belden | Champlain | Radix | Southwire



PureNet® DATA COMMUNICATION PRODUCTS

Reliable category cable solutions designed for residential, utility and commercial applications.

High quality category 5e, 6 & 6a communication cable.

MAJOR MANUFACTURERS: PureNet®



TUBING & SLEEVING | MARKING SYSTEMS

SLEEVE PRODUCTS—PVC, vinyl, braided fiberglass, acrylic, silicone rubber, VPI and Expando.

HEAT SHRINK TUBING—Polyolefin, PVC, Kynar and spiral wound polyester film.

Computer generated labels, write-on labels, markers for wire and components and general identification requirements.

MAJOR MANUFACTURERS: LS Cable | Atkins & Pearce | 3M | Brady | Dunbar | Delfingen | Kiran UDYOG
International Dielectric Products, Inc | National Band & Tag | Zeus Industrial Products

Note: UL, CSA, NEMA and Military Specifications apply to the appropriate product selection.



LACING & BANDING

Tapes, cords and surge ropes available in various materials including polyester, Dacron, fiberglass, ceramic and cotton. Temperature ranges from 55° to 200°C. Available with wax, synthetic rubber, silicone resin, Nylon, Teflon or B-Stage epoxy coatings.

MAJOR MANUFACTURERS: Atkins & Pearce | Bryeden | Fibertek | American & Efird | PEI | Von Roll
Western Filament | Hesgon | Isovolta | Carolina Narrow Fabric | Saylor Products



FLEXIBLE INSULATION

Premium insulating papers, films, laminates, fabrics, mats and foams from leading manufacturers. Products include Nomex®, polyimide, laminates (NMN, DMD, TFT and more), Tufquin®, Cequin®, Skyrol PET film, kraft paper, pressboard, Copaco, Mylar®, Res-I-Lam®, glass cloth, PTFE, PVC, vulcanized fiber, rag, foams, electrical kraft and many more.

MAJOR MANUFACTURERS: DuPont | Flexcon | Isovolta | 3M | SKC | Von Roll | Fibertek | Cottrell Paper
Windsor Stevens | DuPont Teijin Films | Saint-Gobain



PRESSURE SENSITIVE TAPE

Electrical and industrial tape products with silicone, acrylic and rubber adhesives. Backing materials include polyester composites, PTFE, polyimide, polypropylene, Nomex®, paper, vinyl, PVC, foil, glass cloth, cotton and filament reinforced materials.

VALUE ADDED SERVICES: Temperature controlled storage, slitting and converting.

MAJOR MANUFACTURERS: 3M | IPG | Saint-Gobain | Nitto Denko | Textape | Ideal



MICA PRODUCTS

Mica papers, tapes, wraps, tubes, fabricated parts and capacitor papers for VPI, high voltage coil and bar applications, high/low voltage equipment and traction motors. Available in heater, segment and molding plates with epoxy, silicone and alkyd vinyl binder types. Also available in inorganic products.

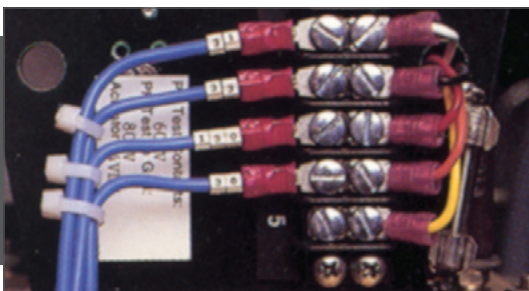
MAJOR MANUFACTURERS: Asheville-Schoonmaker Mica | Cogebi | Isovolta | Von Roll



RIGID INSULATION

Fiberglass is reinforced with polyester, epoxy or phenolic resins to form various shapes. Nomex® pressboards, Micarta®, wood and mica insulation are also available. Products offer excellent flame, arc and track resistance, in addition to high temperature ratings, dielectric and mechanical strength. Available in sheets, rods, tubes, wedges, topsticks, insulators, molded shapes and fabricated parts. UL recognized and conform to NEMA standards.

MAJOR MANUFACTURERS: ABB Micafil Vetrelam | RÖCHLING GLASTIC | Accurate Plastics | Haysite | Isovolta
ITEN Industries | Liberty Polyglass | Marbal | Weidmann



TERMINALS, CONNECTORS & SOLDER

SOLDER—Bar solder, wire solder, solder paste, preforms, brazing alloys, fluxes and chemicals.

TERMINALS & CONNECTORS—Solderless terminals, terminal blocks, cable ties, wiring accessories, heat shrinkable products, solder sleeves and mounting bases.

MAJOR MANUFACTURERS: AIM Products | Canfield | JW Harris | Molex | 3M Electrical Products

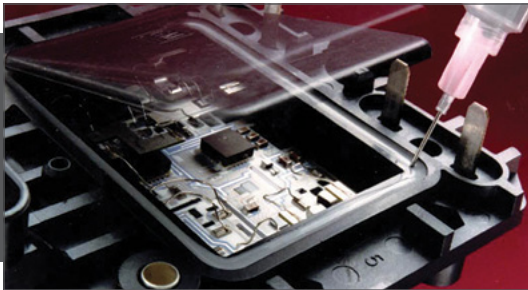


VARNISH & RESINS/PAINT & CHEMICALS

Solvent based and solventless polyester and epoxy varnishes and resins. Waterborne polyesters and water emulsion epoxies. Also available: Co-polymers, polybutadiene, alkyds, polyurethanes, air-dry varnishes, hermetic varnishes, adhesives, thinners and paints. These materials are used in dip and bake, VPI, trickle, roll-through, potting and encapsulating, casting and conformal coating processes.

VALUE ADDED SERVICES: Cold room storage, tank samples and small kit availability.

MAJOR MANUFACTURERS: Elantas PDG (PD George, Epoxylite, Ranvar, Ripley Resin, Isonel, Guardian, Viking)
3M | Star Technology | Vanguard | Dow | CRC | Von Roll/Dolph | Krylon
Glyptal | Sprayon



ADHESIVES, SEALANTS & ELECTRONIC INSULATING PRODUCTS

Adhesives, sealants, conformal coatings, dielectric gels, encapsulants, transformer fluid, lubricants/greases, anti-friction coatings and mold making materials are available in a variety of chemistries, application and packing options.

MAJOR MANUFACTURERS: Dow/Xiameter | Elantas PDG | 3M | Permabond | Star Technology



MOTORS & DRIVES

MOTORS—Sub-fractional to integral ratings for HVAC, farm, pump, industrial, and general purpose applications.

DRIVES—Full range of drives for variable and constant torque applications up to 500HP.

MAJOR MANUFACTURERS: Regal (Marathon, Century, Fasco, Leeson) | Nidec | Wolong/GE | LS Industrial Systems



RENEWAL PARTS

Replacement parts for pumps and motors such as bearings, capacitors, switches, terminal boards, shaft ground rings, RTD's, thermocouples, pump seals, coils, conduit boxes, fans, brushes and holders.

MAJOR MANUFACTURERS: Nachi America | WD Bearings | US Seal | Electro Static Technology
Measurement Specialties | Vanguard | Shaver-Kudell



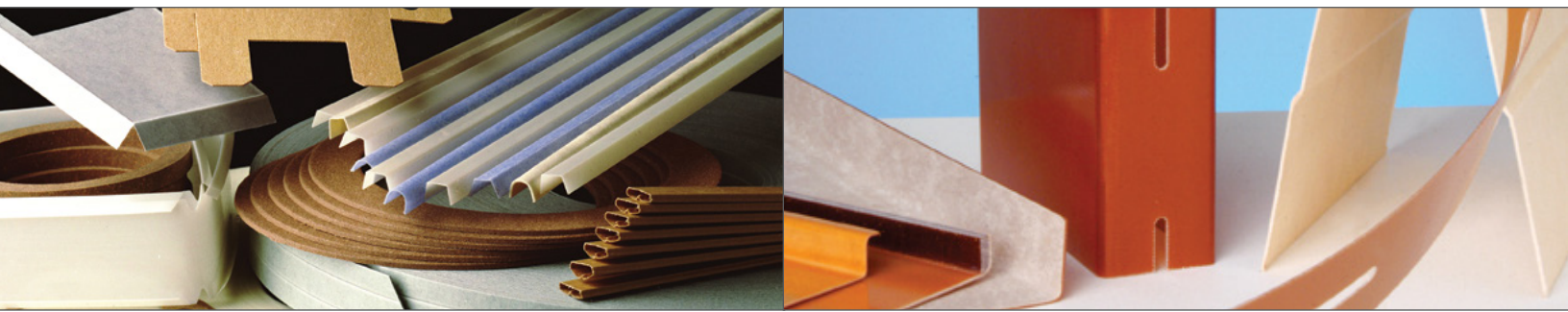
SHOP EQUIPMENT | TEST INSTRUMENTS

All the necessary equipment required for motor rewinding and repair. Burn out ovens, bake ovens, dip tanks, winding machines, strippers/cutters, balancing machines, test meters, dynamometers and surge testers.

MAJOR MANUFACTURERS: IRD | GTI Predictive Technology | Megger Baker | Steelman Industries | AEMC Instruments
Pollution Control Products | JRI Cleaning Systems | ACE | Jenkins | Martindale Electric
Laycock Systems | HEATTEK | AW Dynamometer | H2OWeld | Col-Met



Essex Active is a leading converter/fabricator providing innovative products and custom solutions to a dynamic industrial marketplace.



CONVERTING & FABRICATING SERVICES

TAPE SLITTING

- Precision slitting of pressure sensitive adhesive backed tapes to custom widths from .125" to 48"
- Slitting tolerances from + or - .015" to + or - .032" (material specific)
- Tape slit materials include Plastics, Kapton, Glass cloth, copper foil, PTFE, Nomex and many others. All wound on 3" cores

REWIND SLITTING

- Standard rolls from .125" to 72", and standard material thicknesses from .0005" to .125"
- Slitting tolerance capabilities to + or - .005". Standard tolerance of + or - .015"
- Rewinding capabilities to custom length

SHEETING

- Common material sizes of 24 x 36 and 36 x 36 inches with custom cut sizes to 60 inches wide and lengths to 120"
- Material thicknesses from .0005" to .125"
- Programmable sheet layouts to virtually any dimension
- Custom sheet marking, striping and packaging

DIE-CUTTING

- Cutting, pre-folding, creasing, perforating and scoring capabilities
- Hard tool dies for high volume applications
- Complete range of custom steel rule die cutting and stamping
- Cutting tolerances down to + or - .005" with + or - .125" standard
- Materials 1 mil - 30 mil thick
- Fast, affordable prototyping and new product testing

SLOT INSULATION

- Essex Active fabricates slot liners, slot armor, cuffed edges, creased and formed and turn insulation

LAMINATING

- Pressure sensitive adhesive backed materials
- Composite laminates
- Zone and strip laminating
- Custom material laminating

FORMING

- Creasing and/or cuffing of slit rolls and rewound on 3" cores
- Formed parts chopped to length
- Heat forming of stator wedges and slot cell insulation
- Custom folding

KITTING | CUSTOMIZED PACKAGING

- Building of components to kit level
- Packaged to customer requirements or standard sturdy cardboard box that is packaged with heavy duty shipping tape
- Package standard is 12" x 12" to length required
- Custom carton sizes available after the standard 12" x 12" length

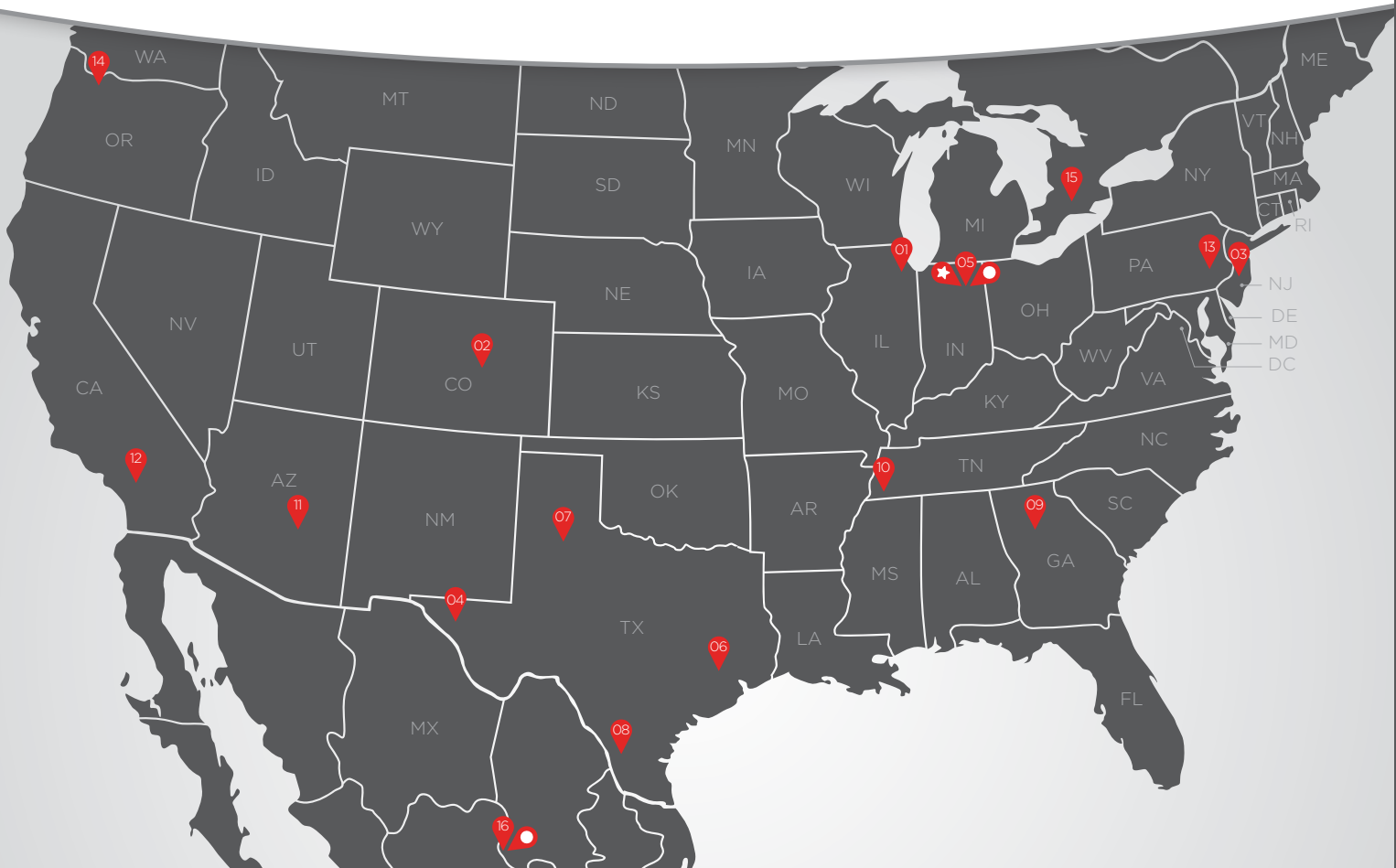
WIRE REWINDING & STRIPPING

- Custom cut lead wire in sizes up to 4/0
- Spool rewinding to custom lengths and standard lengths of 25, 50, 100, 125, 250, and 500 feet. Lengths of 25, 50, 100, 125, and 250 for 22AWG to 6AWG wire. Plus 25, 50, and 100 foot lengths for 4AWG to 4/0
- Lead wire stripping capabilities to any overall length with adjustable strip lengths on cables ranging from 22AWG to 8AWG.
- Partial, mid and step stripping is possible

PRINTING

- Ink stamped grain direction, part number, roll marking
- Customer specific diagram printing on die cut parts, designs and slit edge making

At Essex Brownell, we're ready to serve you
with distribution and fabrication facilities
strategically located throughout North America.



★ Headquarters ● Essex Active Fabrication ● Branch Location

- | | | | |
|----------------|-------------------|------------------|---------------------|
| 01 Chicago, IL | 05 Fort Wayne, IN | 09 McDonough, GA | 13 Philadelphia, PA |
| 02 Denver, CO | 06 Houston, TX | 10 Memphis, TN | 14 Portland, OR |
| 03 Edison, NJ | 07 Lubbock, TX | 11 Tempe, AZ | 15 Simcoe, ON |
| 04 El Paso, TX | 08 McAllen, TX | 12 Ontario, CA | 16 Torreon, MX |



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