

FELLER POWER CORDS

YOUR GLOBAL CONNECTION



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MANUFACTURING

MOLDING CAPABILITY



Feller uses in-house designed and built tools to over mold PVC plugs and connectors. Feller also performs:

- Semi-automated and manual crimping of C13 and C15 contacts
- Wire Sizes from 18 to 10 AWG and EU / HAR equivalents
- Over molding in 3 standard colors
- Molding of NEMA Twistlock plugs up to 30A

ASSEMBLY

Feller uses a fully automated cutting line/de-reeler for efficiency. Some end preparations and assembly services include:



- Cable Cutting of 2, 3, 4 and 5 conductor cable up to 6 AWG (16.00mm² HAR)
- Outer Jacket Stripping of 2 to 5 conductor cable up to 6 AWG (16.00mm² HAR)
- Automated Primary Wire Insulation Scoring and Removal
- Wire tinning utilizing a solder pot
- Automated Machine Terminal Crimping of most terminals and quick disconnects utilizing many press styles
- Feller has a full complement of hand-crimping tools for various types of connectors other than AMP
- Hardware mounting and assembly of ready to wire plugs and connectors in accordance with specified torques utilizing calibrated pneumatic torque wrenches



TESTING

BULK CABLE

- 100% Production Line Testing • Online Diameter Control • Spark Testing

COMPLETED CORDSETS

- 100% Electrical testing with guillotine feature
- Ground Integrity
- Continuity of Live & Neutral Wires
- Hi-Pot Wire-to-Wire (3kV - 2.8kV for assemblies)
- Hi-Pot Wire-to-Outer Contour (6kV - unnecessary for assemblies)
- Polarity
- Automatic Date Coding and/or Needle Marking and/or Hot Stamping

VALUE ADDED SERVICES

- Low minimum quantities
- Large inventory for quick turnaround
- Kanban service
- EDI (Electronic Data Interchange)
- Blanket/master orders
- Additionally, we supply appliance couplers
- Long-term support for service and parts

LABELING AND PACKAGING

- Printing of Bar Code and Human Readable Labels
- Applied Flag Style or Wrapped on Cordage
- Applied to Poly or Anti-Static Bags
- Automated Coiling and tying of Cordsets
- Tie Wrapping of Hanked and Coiled Cords

- Auto-Bagging and Kitting Service



FEATURES & BENEFITS

GENERAL

- B-Crimped Connections
- Glass Fiber Reinforce Plug Base & Inner Mold
- Soft PVC Overmold
- Double Insulation

SPECIFIC

- Nickel-Plated Solid Pins (plugs)
- Hard Outer Shell (shrouded plugs)
- Outer Contour Safe (shrouded)
- Withstand Ball Pressure Test at 125°C (shrouded plugs)
- Floating, Phosphor Bronze Contacts (connectors)



DOUBLE INSULATION ADDS EXTRA SAFETY!

The inner housing shrouds the crimp areas and wire stranding and isolates the contact mating surfaces.



Fully Molded Domestic & International Cordsets

7A to 30A North American Cords

- Standards: UL817, CSA 22.2 No.49
- All cords are  listed and  certified
- NEMA plug types N5/15, N6/15, N5/20, N6/20, L5/30, L6/30, N14/30, N1/15 and N1/15P (polarized)
- Double insulated **EN60320/C5/C7/C13/C15/C17/C19** connectors
- Foil or copper shielding available

2.5A-16A International Cords (7A-15A/125V Japanese)

- Harmonized Cordage** according to CENELEC document HD 21 & HD 22. **<HAR>** mark embossed on outer jacket
- Double-insulated **EN60320/C5/C7/C13/C15/C17/C19** connectors
- Use of rubber jacketed cordage type H05RR-F3G1.0mm² for C15, C15A connector for 155°C environment
- CE Mark** displayed on cordage and connectors as required by the European Low Voltage Directive
- Chinese and Korean approved cords also available with 227IEC53 3x0.75, 3x1.0 and 3x1.5 cordage
- Australian approved cords also available with HD3CCFC 3x1.5 cordage
- Japanese cordage standard according to JISC.



Fully Molded 2.5A-20A Domestic & International Hospital Grade Cordsets



- NEMA plug types **N5/15 & N5/20** with the characteristic "green dot" (Feller type HG). Important safety features: The 5/15 plug has **solid, nickel plated pins, a glass fiber reinforced plug base and crimped connectors** rather than soldered ones. It offers **exceptional strain relief qualities** and has **outstanding mechanical resistance**.
- UL/CSA approved fully molded up to 20A medical grade cord sets

Universal Jumper Cords

- Meets requirements of North American and International Safety Agencies
- Plug Standard: EN60320-2.2/E, Feller type **C14G, C16G**
Cord Connector: EN60320/C13, C15 Feller type **C13, C15**
- Feller can build a variety of fully molded jumper cords with ratings from 2.5A up to 20A for Class I and Class II equipment, including cords for "hot" conditions.
- Plugs, connectors and universal cordage bear the **CE-Mark**.
- Our "Universal" jumper cords are UL/CSA approved and carry the **<HAR>** (harmonized) mark meaning you can stock one part number for worldwide usage.

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North American & International Power Cord Assemblies 15A – 100A

DOMESTIC:

Feller is approved to offer three options for cord sets using NEMA plugs

- Fully Molded double insulated NEMA plug types L5/20, L5/30, L6/20 and L6/30
- Quality Factory Crimp: Authorized facility for the Maringo QFC program
- Wire-on-devices: UL listed manufacturer of North American single and multi-phase assemblies employing locking NEMA wiring devices

INTERNATIONAL:

Feller assembles IEC309 single and multi-phase plugs and connectors for high current industrial applications widely used and recognized

- Allowing OEMs focusing on the worldwide market to standardize
- All shells are made of Polyimide 6—a highly impact resistant thermo-plastic featuring excellent temperature resistance and effective insulation.
- The shells have a polarizing key and keyway to avoid mismatching. Spring loaded covers serve as a locking mechanism. For easy visual identification of mating devices a color code is in use: 110V/yellow, 230V/blue, 400V/red.



2.5A – 20A Inlets, Outlets & Power Entry Modules

Feller also offers a full range of Appliance Couplers for **Class I (grounded)** and **Class II (ungrounded)** equipment

- All modules are **CE-marked** (per the European Low Voltage Directive)
- **Voltage Rating:** Rated voltage per the IEC standard is 250V AC
- **Current Ratings:** 2.5A, 10A and 16A; 15A and 21A (North America)
- **Fuse Ratings:** Maximum 6.3A use of fuses per IEC127-2 recommended
- **UL 94 Flammability Rating:** V-0
- **Temperature Ratings:** Suitable for use at ambient temperatures not normally exceeding 25°C but occasionally reaching 35°C. Pin temperature ratings 65°C, 120°C and 155°C.
- **Construction:** Polyamide nylon 6 body and brass, nickel plated terminals and screws
- **Styles:** Snap-in, flange mount or PCB mount inlets/outlets



EN60320 Ready-to-wire Plugs and Connectors



Per EN60320/C14/C16/C20 for plugs and EN60320/C13/C15/C19 for connectors

- **Current Ratings:** 10A and 16A; 15A and 21A (UL, CSA)
- Available in straight and various angled configurations

Custom Molding & Assembly Capability

- Feller US uses Ultrasonic Welding technology for some plugs and junctions



These photos represent only some examples of our capabilities. There are numerous design possibilities including many types of end terminations, connectors and specialty moldings. Contact our sales department with your specific requirements.

FELLER MEANS QUALITY

- Feller's commitment to quality goes back many years
- Manufacturing fully molded cordsets since 1948
- BS5750 quality approval granted in 1986 (pre-ISO standard)
- Upgraded to ISO 9001 in 1989
- Several approval agencies audit Feller manufacturing on a regular basis including visits by inspectors from OVE (quarterly) and UL (every 3 weeks on average)
- RoHS: Since 2004 all products manufactured by Feller comply with EU directive 2002/95/EC

All appropriate products are CE marked and we offer more than 25 national plug and 40 connector types (both class I grounded and class II ungrounded), that carry 80 national safety agency approvals including Japan, Australia, South Africa, USA, Canada, UK, France, Italy, Belgium, The Netherlands, Hungary, Switzerland, Germany, Austria, China, Scandinavian countries, South Korea, Brazil and Singapore.

QUALITY EXCELLENCE AWARDS

Feller has received recognition from several high quality OEMs of electronic equipment in various industries over the years including XEROX, IBM, HP, BSH among others. Feller looks forward to continuing to set the mark for quality in the manufacture and supply of fully molded power cords and assemblies.

Let Feller demonstrate its high quality products and support to your company.

FELLER LLC

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FELLER POWER CORDS

YOUR GLOBAL CONNECTION



Vertically Integrated Manufacturer

Worldwide Full Service Provider

Extrude PVC Jacketed Cordage

In-house Engineering of Standard and Specialty Molds

100% Product Testing Quality Controls

High Quality Line Cords for Worldwide Use

Crimping, Molding and Assembly at Four Manufacturing Locations

Feller LLC	North Carolina
Feller GmbH	Austria
Feller KFT	Hungary
Feller UK	Great Britain

Sales Office Locations

Hong Kong
California
New Jersey