

Capabilities

Extensive in-house testing facilities provide quick, accurate results. Our environmental test lab is equipped to analyze and measure salt spray and humidity resistance, life cycle, compatibility with military and commercial parameters, tensile strength, hi-pot testing, shock and vibration. Our model shop boasts molding, CNC milling and drilling machines, grinders, saws and lathes for rapid prototyping.

Engineering Capabilities

- Full staff of design engineers in Chicago and Villa Park, IL locations
- Full use of modeling and simulation software, for electronic and mechanical design
- Ability to provide rapid prototypes quickly after initial design concepts are completed
- Test lab and model shop on site for product development



Engineering Test Capabilities

Testing Capabilities for Electrical Properties

- Insulation resistance
- Breakdown voltage
- Contact resistance
- Return losses
- Frequency response measurement

Mechanical Properties

- Force testing
- Life cycle testing
- Low level vibration

Environmental Testing

- Thermo cycling
- Salt spray
- Humidity vs. temperature testing
- NEMA 250 (6P) - IP 66/ 67/ 68



On Site Tool Room- EDM



On Site Tool Room- Vertical Machining Center



Automated Assembly



Hand Assembly

Production Capabilities

Molding

- 12 to 140 ton presses
- Injection molding, insert molding and overmolding
- Multi-cavity or runner-less molding
- More than 70 engineered plastics
- Mold design, mold making and mold repair

Stamping

- High speed Bruderers
- Minster and Havar presses
- In die monitoring ensures quality and die protection

Machining Centers- CNC and Swiss

In-house Electroplating

Assembly

- Automated, semi-automated, and hand assembly
- Assembly fixtures built in house
- Full manufacturing engineering capabilities

Quality Assurance Team



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Switchcraft® & Conxall®

HARSH ENVIRONMENT CONNECTORS

Con-X



Medical, lighting, GPS, safety & security, marine and general industrial electronic applications

Shielded Con-X



Medical, communications, lighting and general industrial electronic applications

EN3® / EN2®



Medical, food service, transportation, GPS, marine and general industrial electronic applications

Mil-E-Qual®



Instrumentation, lighting fixtures, power transmission for alternative energy, outdoor waterproof applications and general industrial electronic applications

XLR



Audio & microphone cabling, test equipment instrumentation consoles, sound and general industrial electronic applications

Applications

Features / Benefits

Characteristics

- IEC IP67 when mated*
- Available in 5 connector sizes
- Available in cable mount, in-line and panel mount
- Available in solder, crimp or PC contact styles
- Gold plated contacts standard
- Caps available
- Available as field assembled or factory overmolded backshells
- Bayonet quick mate coupling nuts - round or winged available in all sizes

- IEC IP68 NEMA 250 (6P) when mated
- Available in 2 connector sizes
- Available in cable mount and panel mount
- Available in solder or PC contact styles
- Gold plated contacts standard
- Threaded coupling metal shells
- Available as field assembled or factory overmolded backshells
- EMI / RFI shielding

- IEC IP68 NEMA 250 (6P) when mated or covered
- Available in 2 connector sizes
- Available in cable mount, panel mount, right angle panel mount and in-line
- Available in solder, crimp or PC contact styles
- Gold plated contacts standard
- Caps available- rated IP68 NEMA 250 (6P)
- Available as field assembled or factory overmolded backshells
- Easy, no soldering connector wiring with crimp type contacts

- IEC IP67 when mated*
- Available in shell sizes 10 thru 28 in 29 insert patterns. Custom patterns available
- Available in straight cable plugs and box mount receptacles
- In-line available in molded assemblies only
- Available in solder or crimp contact styles
- UV inhibitors in shell
- Available as field assembled or factory overmolded backshells
- Silver plated contacts. Gold available
- Plastic Mil-C-5015 equivalent and interchangeable

- Recognized standard
- Unsurpassed a choice of contact plating
- Exclusive quality system allows grounding of specific applications
- Rugged design quality materials
- Female connector latch lock features connectors for secure connection
- Cable mount, right angle, and XLR jackfield

Coupling Ring OD:
Five sizes between 0.532" OD-1.291" OD

Number of Contacts:
2 thru 31

Contact Sizes:
#12, #16, #20, #22 & #26

Max Cable Diameter:
0.560"

Electrical Rating:
Up to 23.0A, 600V AV / DC

Custom overmolded cable assemblies available

* When using molded cable

Coupling Ring OD:
Two sizes- 0.710" OD & 0.875" OD

Number of Contacts:
2 thru 12

Contact Sizes:
#16 & #20

Max Cable Diameter:
0.400"

Electrical Rating:
Up to 13.0A, 600V AC / DC

Custom overmolded cable assemblies available

Coupling Ring OD:
Two sizes 0.532" OD & 0.700" OD

Number of Contacts:
2 thru 18

Contact Sizes:
#16, #20, #22 & #26

Max Cable Diameter:
0.380"

Electrical Rating:
Up to 13.0A, 600V AC / DC

Custom overmolded cable assemblies available

Coupling Ring OD:
Nine sizes between 0.825" OD-2.1" OD

Number of Contacts:
2 thru 37

Contact Sizes:
#12 & #16

Max Cable Diameter:
0.840"

Electrical Rating:
Up to 23.0A, 600V AC / DC

Custom overmolded cable assemblies available

Number of Contacts:
3 thru 7

Max Cable Diameter:
0.328"

Electrical Rating:
Up to 15A, 125V

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HARSH ENVIRONMENT CONNECTORS

Con-X



Shielded Con-X



EN3® / EN2®



Mil-E-Qual®



XLR



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- EMI / RFI shielding

- IEC IP68 NEMA 250 (6P) when mated or covered
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- Gold plated contacts standard
- Threaded coupling metal shells
- Available as field assembled or factory overmolded backshells
- EMI / RFI shielding

- IEC IP68 NEMA 250 (6P) when mated or covered
- Available in 2 connector sizes
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EN3® / EN2®



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- IEC IP68 NEMA 250 (6P) when mated
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- Gold plated contacts standard
- Threaded coupling metal shells
- Available as field assembled or factory overmolded backshells
- EMI / RFI shielding

- IEC IP68 NEMA 250 (6P) when mated or covered
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