



**AUTOMATION  
& FACTORY  
SOLUTIONS**



**Product Line Cards**

**INNOVATION  
THROUGH  
AUTOMATION**



## Innovation Through Automation

**GCG Automation & Factory Solutions** consists of leaders in industrial automation: Advanced Controls & Distribution (ACD), Adcon Engineering, C&E Advanced Technologies, Empire, Neff Power, and Professional Control Corporation (PCC). Our customers throughout Western Pennsylvania, Ohio, West Virginia, Michigan, Indiana, Kentucky, Tennessee, Wisconsin, and the Southwest rely on us to continue to supply innovative, technical solutions developed by industry-leading manufacturers.

**ACD** is a technology-leading, full-line distributor of industrial electrical supplies serving an extensive network of vendors and customers.

**Adcon Engineering** has been providing customers with a wide variety of safety and sensing since 1971 to help automate and streamline their manufacturing processes and improve the capabilities of the machines they build.

**C&E Advanced Technologies** has been providing customers with industrial automation solutions for over 40 years. C&E offers products in multiple areas and has the expertise to support them.

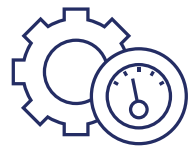
**Empire** is an innovative manufacturer of custom cable assemblies and distributor of automation, cable, electrical, and safety products.

**PCC** is an industrial automation, power distribution and electrical controls distributor for Siemens and other world-class technology providers, serving the Wisconsin and Minnesota manufacturing industry for over 40 years.

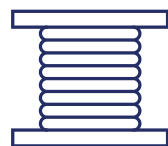
**Neff Power** is a distributor of robotics, motion controls, sensors, safety, vision, machine framing, pneumatics, hydraulics and other products from leading global manufacturers.



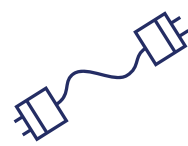
connectivity



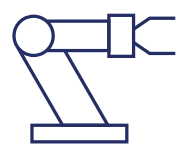
automation & control



wire & cable



cable assemblies



robot dress



safety solutions



**ACD** ADVANCED CONTROLS & DISTRIBUTION  
A GCG COMPANY

**Cranberry Twp., PA,  
Middleburg Heights, OH**

724-741-8200  
acdlist.com

**Adcon Engineering**  
A GCG COMPANY

**Middleburg Heights, OH**

440-238-3915  
adconengineering.com

**C&E ADVANCED TECHNOLOGIES**  
A GCG COMPANY

**Miamisburg, OH  
Nashville, TN**

800-228-2790  
ceadvancedtech.com

**Empire**  
A GCG COMPANY

**Rochester Hills, MI  
Grand Rapids, MI  
Brampton, Ontario**

248-853-6363  
empirewc.com

**NEFF POWER**  
A GCG COMPANY

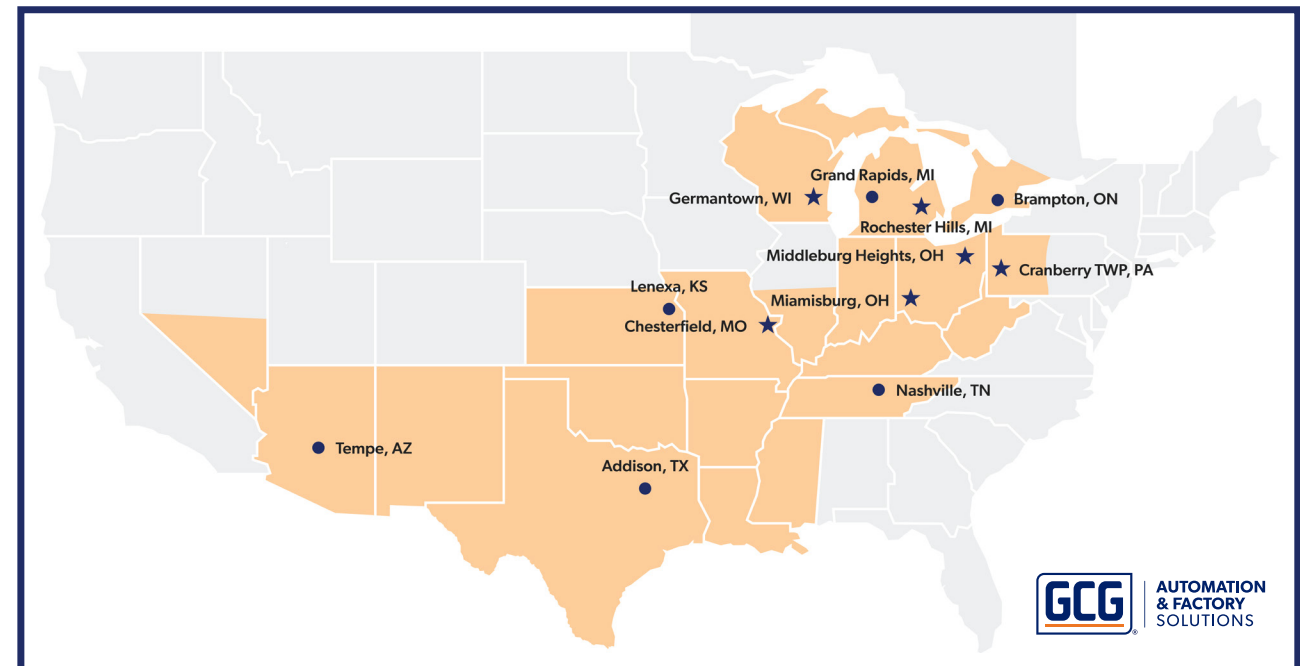
**Chesterfield, MO  
Lenexa, KS  
Addison, TX  
Tempe, AZ**

855-727-6200  
neffpower.com

**PCC**  
A GCG COMPANY

**Germantown, WI**

262-251-3000  
pccweb.com





ADVANCED  
CONTROLS &  
DISTRIBUTION

A GCG COMPANY

Automation • Electrical Accessories • Industrial Controls • Machine Safety • Power Distribution • VFDs • Wireless



World Market Leader in:  
Automation, Drives, Motors, Industrial Controls, Switchgear



Automation, Sensors, Machine Safety, Lighting  
& Indicators, Machine Vision, Wireless Networks



Terminal Blocks, Signal Conditioning, Power Supplies, Surge  
Protection, Industrial Ethernet Switches



Structural Aluminum and Design Services



Collaborative Robots from 5kg to 25kg



Robotic Solutions for Welding, Assembly, Material Handling,  
& Packaging



Enclosures, Power Distribution, Climate Control,  
IT Infrastructure



Cable Management Systems  
Guiding, Protecting, Marking, Robotic Dress Packs, Cable Protection  
Conduit, Cable Routing/Retaining Systems



High Bays, Area Lights, Linear Lights, Floodlights,  
Wallpacks/Bulkheads, Street Lights



Fuses, Fuse Holders, Power Distribution Blocks, Low Voltage  
Disconnect Switches, Surge Protection, Laminated Bus Bar



Low/Medium/High Voltage Transformers, Drive Isolation  
Transformers, Control Transformers, Line Reactors



Industrial Routers, Industrial Wireless Routers,  
VPN Routers for Remote Machine Access

ACD is also an Authorized Distributor for the following vendors:

- Accutech
- Advanced Illumination
- Akron Electric
- Apera
- Atlas Lighting
- Bender
- Carlo Gavazzi
- Cembre
- Cementex
- CREE Lighting
- Dynapar
- Federal Signal
- FLIR
- Fortress
- Grace
- Haewa
- Hilscher
- Hubner
- Husky Rack & Wire
- Iboco
- Liebert
- Macron Dynamics
- Magswitch
- Meltric
- Mencom
- MTE
- On Robot
- Pfannenburg
- Safe Connect
- SICK Stegmann
- Stahlin
- Swivellink



A GCG COMPANY

Automation • Electrical Accessories • Industrial Controls • Machine Safety • Sensing • Wireless



Automation, Sensors, Machine Safety, Lighting  
& Indicators, Machine Vision, Wireless Networks



Sensors: Prox, Flow, Pressure, Connectivity, Encoders,  
I/O, RFID



Structural Aluminum and Design Services



Sensors, Safety Light Curtains/Laser Scanners, Bar Code, RFID



Autonomous Mobile Robots (AMRs)



Collaborative Robots from 5kg to 25kg



Enclosures, Power Distribution, Climate Control, IT Infrastructure



HMI Operator Interfaces, Industrial Computers



Rotary Encoders: Absolute, Draw String, Incremental,  
Linear Encoders



Solid State Relays, Sensors, Controls, Energy Monitoring



DIN Rail Power Supplies, 1-Phase & 3-Phase  
DC/DC Converters, DC-UPS, IP67 Field Power Supplies



Relays, Sockets, Switches, PLCs, HMI Interfaces, Power Supplies

Adcon Engineering is also an Authorized Distributor for the following vendors:

- Altech Corp.
- Apem
- Apera
- Apex Technology
- Carlo Gavazzi
- Conta-Clip
- Contact Electronics
- Dynapar
- Electro Cam
- Fuji Electric
- Iboco
- Icotek
- Meltric
- Mersen
- Migatron
- Opto 22
- Patlite USA
- Red Lion
- Smart Vision Lights
- Spectrum Illumination
- Sprecher + Schuh
- Swivellink
- Unitronics



Automation • Controls • Marking Systems • Motion • Pneumatics • Robotics • Safety • Sensors • Vision • Wireless

**SIEMENS**

World Market Leader in:  
Automation, Drives, Motors, Industrial Controls, Switchgear

**TURCK**

Sensors: Prox, Flow, Pressure, Connectivity, Encoders, I/O, RFID

**MIR**  
MOBILE INDUSTRIAL ROBOTS

Autonomous Mobile Robots (AMRs)

**FORTRESS**

Safety Interlocks, CIP Safety & PROFSafe Devices, RFID Badge Access, Operator Controls, Fluid Power, Light Curtain Safety

**80/20**  
BUILD YOUR IDEA

Structural Aluminum and Design Services

**RITTAL**

Enclosures, Power Distribution, Climate Control, IT Infrastructure

**BANNER**

Automation, Sensors, Machine Safety, Lighting & Indicators, Machine Vision, Wireless Networks

**FESTO**

Pneumatics, Electric Drives, Process Automation Products

**YASKAWA**  
MOTOMAN ROBOTICS

Robotic Solutions for Welding, Assembly, Material Handling, & Packaging

**DOOSAN**

Collaborative Robots from 5kg to 25kg

**murrplastik**  
Simply Smart Systems

Cable Management Systems  
Guiding, Protecting, Marking, Robotic Dress Packs, Cable Protection Conduit, Cable Routing/Retaining Systems

**WireCrafters**

Wire Partitions & Cages, Pallet Rack Safety Systems, Machine Guarding, Protective Railings, Storage Lockers

C&E is also an Authorized Distributor for the following vendors:

- Advanced Illumination
- Apera
- Brady Corporation
- Cooper Bussmann
- Encoder Products Co.
- Essential Robot
- Fuji Electric
- HMS/eWON
- IDEC
- Joulin
- JVL
- Koganei
- Kollmorgen
- Larco
- OnRobot
- Red Lion
- ROEQ
- Schunk
- Smart Vision Lights
- Stober
- Swivellink
- Teledyne
- Tolomatic

Automation & Control • Connectivity / Wire & Cable • Mechatronix • Wireless

**SIEMENS**

World Market Leader in:  
Automation, Drives, Motors, Industrial Controls, Switchgear

**TURCK**

Sensors: Prox, Flow, Pressure, Connectivity, Encoders, I/O, RFID

**Southwire**

Wire & Cable, Power Management, Lighting, Tools & Equipment

**80/20**  
BUILD YOUR IDEA

Structural Aluminum and Design Services

**HARTING**

Industrial, Heavy Duty, & Interface Connectors, System Cabling, Tools

**IDEC**

Relays, Sockets, Switches, PLCs, HMI Interfaces, Power Supplies

**BANNER**

Automation, Sensors, Machine Safety, Lighting & Indicators, Machine Vision, Wireless Networks

**molex**

Cables, Cable Assemblies, Connectors, Edgecards, Sockets

**WireCrafters**

Wire Partitions & Cages, Pallet Rack Safety Systems, Machine Guarding, Protective Railings, Storage Lockers

**ROLLON**  
BY TIMKEN

Linear Rails, Telescopic Slides, Actuators, Actuator Systems

**LAPP**

Power & Control Cable, Data Communication Cable, Systems

**SAB**  
North America

Flexible Control, Continuous Flex, Bus and Ethernet, High Temperature Cables

Empire is also an Authorized Distributor for the following vendors:

- Alphawire
- Amphenol
- Apera
- Apex Dynamics
- Belden
- Chalfant
- Coleman Cable
- Dinkle
- Draka
- General Cable
- Hammond Mfg.
- Helukabel
- Mersen
- MP Husky
- Niedax
- Pepperl+Fuchs
- Pfannenburg
- Pizzato
- Reiku
- Sealcon
- Tosibox
- Voyten
- Wengler
- Wirecrafters

Robotics • Structural Aluminum • Electrical Controls • Motion Controls • Safety • Pneumatics • Hydraulics • Wireless



Structural Aluminum and Design Services



Sensors, Safety Light Curtains/Laser Scanners, Bar Code, RFID



\*available in MO, KS, IL, AZ, NM

Sensors: Prox, Flow, Pressure, Connectivity, Encoders, I/O, RFID



Robotic Solutions for Welding, Assembly, Material Handling, & Packaging



\*available in TX, AR, OK, LA

Fieldbus Network Systems, Cordsets, Power Management



Collaborative Robots from 5kg to 25kg



Cartesian and SCARA Robots, Electric Cylinders



HSB Linear Actuators, Pneumatic & Electric Grippers



Industrial, Sanitary and Automation Precision Conveyors



Bulk Cable, Industrial Networking, Cybersecurity



Vacuum Management, Grippers, Generators



Terminal Blocks, Signal Conditioning, Power Supplies, Surge Protection, Industrial Ethernet Switches

**Neff Power is also an Authorized Distributor for the following vendors:**

- Aperia
- Atos Hydraulics
- Aventics/Emerson /Numatics
- Bucher Hydraulics
- Denso Robotics
- DieQua Corporation
- Gems Sensors
- Hawe Hydraulics
- Hirschmann
- Kollmorgen
- Laurel Electronics
- Lumberg Automation
- Macron Dynamics
- Madison
- Micromatic
- Miller Fluid Power
- NSK
- OnRobot
- Patlite
- Pro-face
- PULS
- Schmersal
- Secomea
- Swivellink
- Thomson
- Tolomatic
- Versa Valves
- Weintek
- West Control Solutions
- Wilkerson

Automation • Robotics • Industrial Controls • Safety • Motion • Sensors • Electrical Accessories • Wireless



World Market Leader in:  
Automation, Drives, Motors, Industrial Controls, Switchgear



Machine Tending, Secondary Operations, Assembly, Inspection, Finishing, Dispensing, Material Handling



Structural Aluminum and Design Services



Collaborative Robots from 5kg to 25kg



Industrial Panel PCs, Industrial Monitors, Embedded Box PCs, Stainless Steel Panel PCs



PLC Based Motion Control, Integrated Stepper Solutions, Stepper Controllers, Stepper Drives, Stepper Motors



Filter fans, Cooling, Heat Exchangers, Chillers, Water to Water Heat Exchangers, Horns, Sirens & Sounders



Sensors, Safety Light Curtains/Laser Scanners, Bar Code, RFID, Positioning Systems, Optical Data Transmission



Servomotor Gearboxes, Gearheads & Speed Reducers, Inline/Right Angle Geared Motors, Precision Planetary Gearboxes



Terminal Blocks, Signal Conditioning, Power Supplies, Surge Protection, Industrial Ethernet Switches



Solenoid Locking Safety Switches, Rope Pull Switches, Safety Relays, Position & Limit Switches, Magnet & Hinge Switches, E-stops, Pilot Devices



Cable Carriers, Energy Chains, Continuous Flex Cables, Drive Cables, Pre-harnessed Cable Carriers, Energy Supply Systems for Robots, Joint Kits for Robots

**PCC is also an Authorized Distributor for the following vendors:**

- Antaira
- Aperia
- Binder
- Carlo Gavazzi
- Dunkermotoren
- EDrive
- EXM
- Fibox
- Grace Technologies
- Hammond Mfg.
- Helmholz
- IDEM
- JLT Mobile
- KnorrTec
- Larco
- Led2Work
- LS Electric
- Meltric Corporation
- Mersen
- Micron
- PR Electronics
- ProSoft
- Qlight
- Rollon
- Socomec
- Softing
- Tele
- TCI
- TR Electronic
- Velox
- Weintek
- Yaskawa

# WIRE & CABLE



## Harness / Specialty Assemblies

There is a demand for unique interconnect systems in many industries today. Empire is recognized as a superior manufacturer of wire harnesses and specialty assemblies.

Our knowledgeable staff can assess your needs to get the fit, form and function needed out of your assembly. We use products like shrink wrap, expando, tape wrap, spiral wrap, and convolute to make an assembly more manageable and withstand different environments. Empire has the capability to dye and stripe wire in house. This allows us to match a color code provided by the customer. We get the most out of your assembly while maintaining an effective cost.

## Overmold

Overmolding is ideal for cable assemblies that will face extreme weather, high-pressure wash-downs, constant sanitation, frequent strain and flexing, and exposure to dust or debris, while maintaining reliability. The most common applications overmolding is preferred include solar energy, military equipment, consumer electronics, medical equipment and industrial/OEM applications.



Molded strain relief can be engineered to your exact application, specific flexing or routing needs. The entire process is completed in house. Your custom molded product will have a professional appearance and can utilize your logo, part number, etc. There are a variety of molded materials, ensuring a suitable fit for your specific application.

## Multiple Markets – One GCG!

GCG serves 30 unique markets through our 3 specialized segments.

Visit [gogcg.com](http://gogcg.com) For More Information

### AUTOMATION & FACTORY SOLUTIONS

Distribution Centers  
Manufacturing  
Healthcare  
Food & Beverage



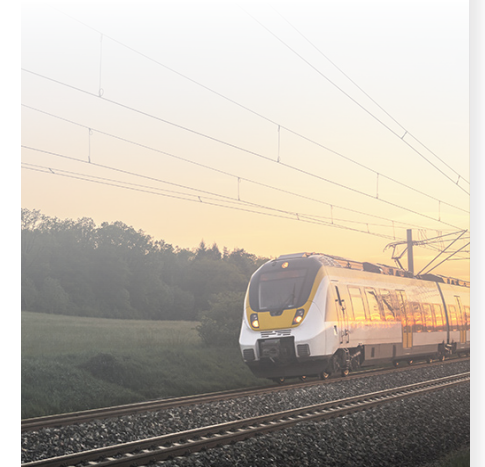
### COMMUNICATIONS & NETWORK SOLUTIONS

Telecom  
Broadband  
Wireless  
Data Centers  
Building Automation



### CONNECTIVITY & POWER SOLUTIONS

Navy / Marine  
Rail & Transit  
Infrastructure  
Aerospace & Defense  
Contract Manufacturers  
OEM Equipment







# INNOVATION THROUGH **AUTOMATION**

[www.gogcg.com/automation](http://www.gogcg.com/automation)



**AUTOMATION  
& FACTORY  
SOLUTIONS**

