ENGINEERED
CABLE PRODUCTS
DELIVERING DEPENDABILITY
FOR MORE THAN HALF A CENTURY

Kalas is a full-service manufacturer with over 60 years of experience. We are strategically positioned to deliver quality cable and value-add solutions.

CUSTOM PROGRAMS AND PERSONALIZED SERVICES TO MEET YOUR NEEDS.
SUPERIOR MATERIAL CONTROL

OWNING EACH STAGE OF THE PRODUCTION PROCESS

DRAW COPPER fabricated from 5/16” copper rod

30+ MILLION POUNDS OF COPPER processed annually

15 EXTRUSION LINES

Custom and competitive VALUE-ADD, TERMINATED SOLUTIONS

STRATEGIC VERTICAL INTEGRATION
MANUFACTURING FLEXIBILITY

Specializing in small lots with high variability, Kalas offers strategic vertical integration of copper stranding, insulating compounds and terminate value-add services. We offer a comprehensive product line from basic components to specialized customer specific constructions designed for power distribution.

TRUSTED EXPERIENCE

Backed with expert engineering assistance for cable design and custom constructions. Kalas provides the skill and experience needed for the highest quality manufacturing and price-effectiveness. Products are tested with on site UL/SAE product testing laboratory. Custom line sequencing, special packaging and component kits offered.

INDUSTRY LEADER

Strategic partner to blue-chip customers & global brands for custom terminated battery cables across a broad spectrum of markets including busing, trucking, agriculture, construction, material handling, marine and more.
DIE CAST TERMINALS
For use on tapered battery posts, Kalas die cast terminals have proved themselves in a wide range of industrial applications. They are a cost-effective product that is popular for off-road equipment such as forklifts, bulldozers and farm tractors. The pressure-cast lead design is reinforced with steel insert and provides an excellent electrical bond. Available in sizes #6 thru 4/0
Single battery style
Multiple battery style

Terminal configurations (all available as positive, negative or universal):
- Straight
- Elbow
- In-line
- Loop
- Tee
- Auxiliary

THIMBLE (RING TERMINAL) CABLES
Our ring terminal cables are terminated with closed barrel copper lugs in both straight configurations and styles bent at an angle. Thimble cables can also be supplied in combination with other terminal styles, including flag terminals. Products are available with almost any hole size and with special tongue lengths.
**BATTERY HARNESS ASSEMBLIES**

Kalas manufactures harness assemblies for starting and powering requirements. We offer a comprehensive offering of basic configurations to complex, custom designs. Available features include multiple wire ring-to-ring connectors, as well as all types of terminals, covers and power connectors.

**SMALL CABLE ASSEMBLIES**

Used primarily as #4, #6, and #8 starter cables, Kalas small cable assemblies are found in such applications as motorcycles, lawn tractors, ATV’s watercraft, snowmobiles, generator sets and HVAC equipment. We custom make these cable products to your prints and specifications. Tell us your needs – we excel in providing solutions to satisfy special requirements.

*Choose from a wide variety of:*  
- Stamped brass or pre-tinned copper terminals  
- Closed barrel copper lugs  
- Boots  
- Protective coverings

**GROUND STRAPS**

Kalas Ground Straps are constructed of braided tinned copper in sizes #10 thru 4/0 plus other custom sizes available on request. They are available with a wide range of hole sizes and various terminal types.
REMOTE JUMP-START TERMINALS

Kalas jump-start units provide a remote auxiliary terminal that is installed away from explosive battery acid fumes. These products also provide a convenient connection when the batteries are not easily accessible. Our patented design features a heavy-duty brass stud molded directly in a high strength insulating material. One end is supplied threaded and formed for attachment of a cable assembly; the other end provides positive connection for a jump-start clamp. We also offer specialty insert-molded stud assemblies which can be used as terminal blocks, pass-through connections and other applications.

Styles:
- Single or dual jump-start lugs
- Power stud design
- Front connection design
- Rear connect design
- Pass-thru stud styles for junction blocks and marine bulkheads

PROTECTIVE COVERINGS

All Kalas protective coverings offer protection from abrasion, flame, heat, oil/fuel and other environments.

Representative materials include:
- Convoluted conduit – nylon, polypropylene and polyethylene
- Heater hose
- Clear vinyl loom
- Nylon
- High-temperature thermal sleeve
- Other special coverings on request
MOLDED MAINTENANCE FREE BATTERY CABLES

Kalas maintenance-free cable assemblies provide extra protection against harsh environments. Terminals are crimped to the cable, then encapsulated in PVC. When installed, this design forms a weatherproof seal to maintain the superior electrical characteristics of the terminal. We produce configurations for all types of series and parallel applications, in sizes from #6 thru 4/0. There is a complete selection of terminal styles to mate with battery nuts, jump start nuts, ½” studs or special hardware.

Terminal Configurations:
- Straight, in-line and flag types
- Stackable and non-stackable versions
- Designs for auxiliary stud
- Available with lead wires

Starter cable styles (mate with battery cable or battery box jumpers):
- Single battery
- Multiple battery – flag or in-line designs

Battery box jumper cable styles:
- Top post
- Side post
- Designs for two battery and multiple battery hook-ups

CUSTOM PACKAGING

Kalas terminated cable products can be shipped as bulk items or kitted together with related accessories, components and materials. Kalas offers line-sequencing to your specifications and ready for installation with special labeling also available.
CUSTOM CABLE DESIGN

AVAILABLE FOR THE FOLLOWING PRODUCT TYPES:

- Ring to Ring Cable Assemblies
- Ground Straps
- Anderson Connector Power Cables
- SAE Jumpstart, Components and SAE Jumper Cable Kits
- Top Post Battery Cables for Applications with 2-4 Batteries and Multiple Battery Interconnects
- Threaded Post Battery Cables
- Tapered, Top Post Battery Cables

CUSTOMIZED SOLUTIONS FOR ALL APPLICATIONS

kalaswire.com/engineered-cable

KALAS MAILING ADDRESS
167 Greenfield Road
Lancaster, PA 17601

KALAS WAREHOUSE
1810 East Jasper St.
Tulsa, Oklahoma 74110

LAS VEGAS WAREHOUSE
4320 North Lamb Blvd.
Suite 300,
Las Vegas, Nevada 89115

MADE IN USA

TS 16949 CERTIFIED
ISO 9001: 2008 CERTIFIED
ISO 14001: 2004 CERTIFIED
PRODUCTS AT A GLANCE

Products listed are common Kalas products; other products are available upon request. Please contact sales or customer service for your special requests.

**AUTOMOTIVE**

- **AUTO DUPLEX**
  - Inner Conductors
  - PVC 80°C - 105°C
  - XLPE 125°C
  - PVC 80°C - 105°C
  - 18/2 – 10/2 gauge

- **AUTO TRIPLEX**
  - Inner Conductors
  - PVC 80°C – 105°C
  - XLPE 125°C
  - PVC 80°C - 105°C
  - 18/3 – 10/3 gauge

- **AUTO QUADRUPLEX**
  - Inner Conductors
  - PVC 80°C – 105°C
  - XLPE 125°C
  - PVC 80°C - 105°C
  - 16/4, 14/4, 12/4 gauge

- **BOOSTER DUPLEX CABLE**
  - PVC or TPE up to 105°C
  - 6/2 – 1/0-2 gauge

- **BATTERY CABLE 60 VOLTS DC**
  - PVC SGT 80°C or 105°C
  - EPDM SGR 105°C or 140°C
  - UL SGR 105°C (UL4127)
  - XLPE SGX 125°C
  - Meets SAE J1127
  - 6 gauge – 4/0

- **PRIMARY WIRE 60 VOLTS DC**
  - PVC GPT 80°C or 105°C
  - PVC TWP 80°C
  - XLPE GXL 125°C
  - XLPE SXL 125°C
  - XLPE TXXL 125°C
  - Meets SAE J1128
  - 18 – 8 gauge

- **MULTIPLE CONDUCTOR TRAILER CABLE**
  - Inner Conductors
  - PVC 80°C or 105°C
  - XLPE 125°C
  - Low Temperature -40°C
  - Jacket
  - PVC or TPE
  - 80°C or 105°C
  - Low Temperature -40°C
  - Mixed gauges; Made to customer specifications; No Kalas standard

**CONSTRUCTION WIRE**

- **CATHODIC PROTECTION CABLE**
  - High Molecular Weight
  - Linear Low Density Polyethylene
  - 75°C
  - 600 Volts
  - Available as UL Listed or non UL
  - 14 gauge – 4/0

- **CATHODIC PROTECTION CABLE WITH HALAR**
  - High Molecular Weight
  - Linear Low Density Polyethylene
  - 75°C
  - 600 Volts
  - 4 – 8 gauge

- **SWITCHBOARD WIRE SIS UL AND CSA**
  - SIS 90°C Dry
  - 600 Volts
  - 14 AWG – 4/0

- **THW SINGLE CONDUCTOR**
  - PVC 75°C Dry 75°C Wet
  - 600 Volts
  - 14 AWG – 4/0

- **UF-B WITH GROUND**
  - PVC/Nylon Conductors with PVC/Jacket
  - Sunlight Resistant
  - 90°C
  - 600 Volts
  - 14 – 6 AWG

- **THERMOSET INSULATED WIRE**
  - CSA File # LL22035
  - RHH 90°C Dry RW-2 and USE-2 are 90°C Dry 90°C Wet
  - 600 Volts
  - 14 AWG – 4/0

- **THW-2 SINGLE CONDUCTOR**
  - PVC 90°C Dry 90°C Wet
  - 600 Volts
  - 14 AWG – 4/0

- **UNDERGROUND FEEDER WIRE (UF)**
  - PVC
  - Sunlight Resistant
  - 60°C Dry 60°C Wet
  - 600 Volts
  - 14 – 6 AWG

- **XHHW-2 90°C WET 90°C DRY**
  - 600 Volts
  - 12 AWG – 4/0
  - 10 AWG and larger VW-1

**FLEXIBLE CORD**

- **EXTRA HARD SERVICE CORD PVC ST, STO, STOW, STW, STOW, STOW, PVC Jacket, PVC Inners**
  - 60°C or 105°C -40°C
  - 600 Volts
  - 18 – 4 AWG, 2-4 conductors.
  - Also available with greater than 4 conductors

- **HARD SERVICE CORD PVC S/JT, SJTO, SJTOO, S/ST, SJTW, S/STOW**
  - PVC Jacket, PVC Inners
  - 60°C or 105°C -40°C
  - 300 Volts
  - 18 – 10 AWG, 2-4 conductors.
  - Also available with greater than 4 conductors

- **HARD SERVICE CORD SJE, SJE, SJE, SJE, SJE, SJE, SJE, SJEW, SJEOW, SJEOW**
  - TPE Jacket, PVC Inners
  - 105°C -40°C or -50°C
  - 300 Volts
  - 18 – 10 AWG, 2-4 conductors.
  - Also available with greater than 4 conductors

**MARINE / RECREATION**

- **BOAT CABLE SINGLE CONDUCTOR**
  - PVC 75°C Dry 75°C Wet
  - 600 Volts
  - 16 AWG – 4/0

- **BOAT CABLE MULTI-CONDUCTOR FLAT**
  - PVC 75°C Dry 75°C Wet
  - 600 Volts
  - 18 – 6 AWG, 2-3 conductors

- **BOAT CABLE MULTI-CONDUCTOR ROUND**
  - PVC 75°C Dry 75°C Wet
  - 600 Volts
  - 18 – 1 AWG
  - Contact Sales for # of conductor’s

- **MARINE BATTERY CABLE SGT SAE J1127**
  - PVC 105°C -40°C
  - 60 Volts DC
  - 6 gauge – 4/0

- **MARINE PRIMARY WIRE GPT SAE J1128**
  - PVC 105°C -40°C
  - 60 Volts DC
  - 18 – 8 gauge

*Stock Items

Please contact your Kalas representative to discuss ampacity and voltage drop values based on NEC standards.

RoHS: Kalas products are compliant with the requirements of the RoHS directive (2011/65/EU as amended).

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**PRODUCTS AT A GLANCE**

**MACHINE TOOL WIRE (MTW), COIL LEAD, TEW & TR**

<table>
<thead>
<tr>
<th>COIL LEAD</th>
<th>MTW</th>
<th>TEW</th>
<th>TR22</th>
<th>TR64</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIRE CL1251</td>
<td>PVC 90°C</td>
<td>PVC 105°C</td>
<td>PVC 90°C</td>
<td>PVC 90°C</td>
</tr>
<tr>
<td>XLPE 125°C</td>
<td>600 Volts</td>
<td>600 Volts</td>
<td>#18 – 500 MCM</td>
<td>#18 – #10</td>
</tr>
<tr>
<td>600 Volts</td>
<td>18 AWG – 4/0</td>
<td>2 - 4/0 gauge</td>
<td>Sunlight Resistant</td>
<td>10-14 AWG</td>
</tr>
</tbody>
</table>

**GROUNDING CABLE**

PVC or TPE  
-50°C – 100°C  
600 Volts  
2 – 4/0 gauge  
Bare Copper 16 – 14 AWG  
10-14 AWG

**MISCELLANEOUS**

**GROUNDING CABLE**

PVC or TPE  
-50°C – 100°C  
600 Volts  
2 – 4/0 gauge  
Bare Copper 16 – 14 AWG  
10-14 AWG

**SUBMERGEABLE PUMP CABLE**

**PVC FLAT PARALLEL PUMP WITH GROUND**  
75°C Dry 75°C Wet 600 Volts  
14 – 10 AWG 2 or 3 conductor with ground  
8 AWG 2 or 3 conductor with # 10 ground  
6 – 4 AWG 3 conductor with # 8 ground

**PVC FLAT HEAVY DUTY PUMP WITH GROUND**  
75°C Dry 75°C Wet 600 Volts  
14 – 10 AWG 2 or 3 conductor with ground  
8 AWG 3 conductor with # 10 ground  
6 – 4 AWG 3 conductor with # 8 ground  
1/0 - 2/0 3 conductor with #6 ground

**TRANSFORMER LEAD WIRE**

**PV TWISTED PUMP WITH GROUND**  
75°C Dry 75°C Wet 600 Volts  
14 – 10 AWG 2 or 3 conductor with ground  
8 AWG 2 or 3 conductor with # 10 ground  
6 – 4 AWG 3 conductor with # 8 ground

**TPE PUMP CABLE JACKETED (ICE BLUE)**  
TPE 90°C Dry 75°C Wet  
Low Temperature Rating -65°C  
600 Volts  
12/2 12/3 10/2/3 all with ground  
8/3 with # 10 ground

**INDUSTRIAL POWER**

**TOUGHFLEX™ EPDM WELDING CABLE**

EPDM Rubber  
-50°C to 105°C  
600 Volts  
#2 – 2/0 MCM

**GENFLEX™ TYPE SC ENTERTAINMENT CABLE**

CPE  
-50°C to 105°C  
600 Volts  
#2 – 4/0 MCM  
UL 526, 525, 530  
UL 1680, CSA PPC 22.2 - 96, c(UL)

**GENFLEX™ TYPE W PORTABLE POWER CABLE**

CPE Jacket, EPDM insulation  
-40°C to 90°C Dry, 90°C Wet  
2000 Volts  
#6 – 4/0 MCM  
UL MSHA Flame Test  
Sunlight Resistant

**APPLIANCE WIRE (AWM)**

**PVC AWM UL**

80°C or 105°C  
300, 600 or 1000 Volts  
Moisture Resistant  
Flat or Round Multiple Conductor  
Also available  
18 AWG – 500 MCM

**PVC AWM CSA**

60°C – 105°C Dry 75°C Wet  
300 or 600 Volts  
Class I & II Group A & B  
Moisture and Oil Resistant available  
18 AWG – 500 MCM

**KALAS MAILING ADDRESS**

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PROVEN DEPENDABILITY

- 5 MILLION CUSTOM CABLES, ANNUALLY
- QUALITY BUILT IN

DYNAMIC FULFILLMENT

- 48 HOUR ORDER EXPEDITE CAPABILITY
- 400-500 UNIQUE PARTS, DAILY
- 15,000 CUSTOM PARTS

TECHNICAL SOLUTIONS

- ISO & TS CERTIFIED
- ENGINEERING EXPERTISE & IN-HOUSE TESTING
- VERTICALLY INTEGRATED FOR SUPERIOR MATERIAL CONTROL

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P 717-335-0135

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ECPD/3.20