



# **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**

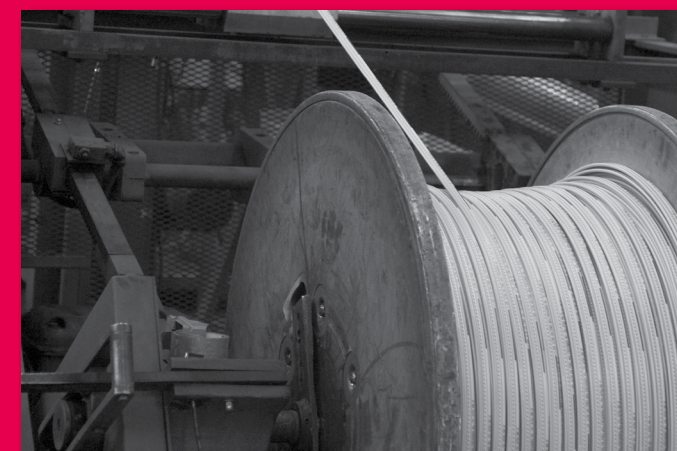
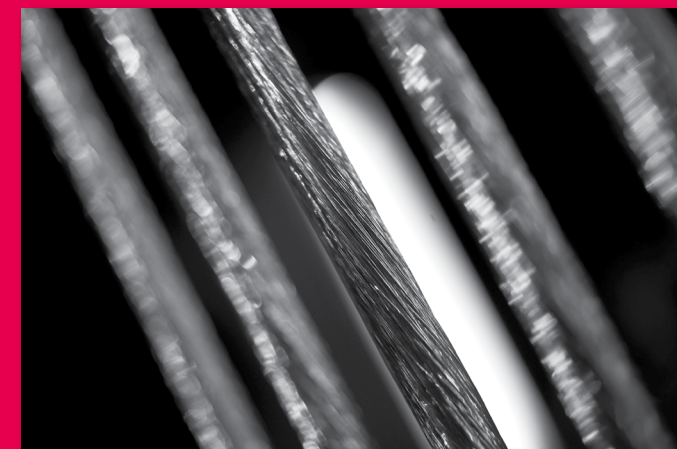
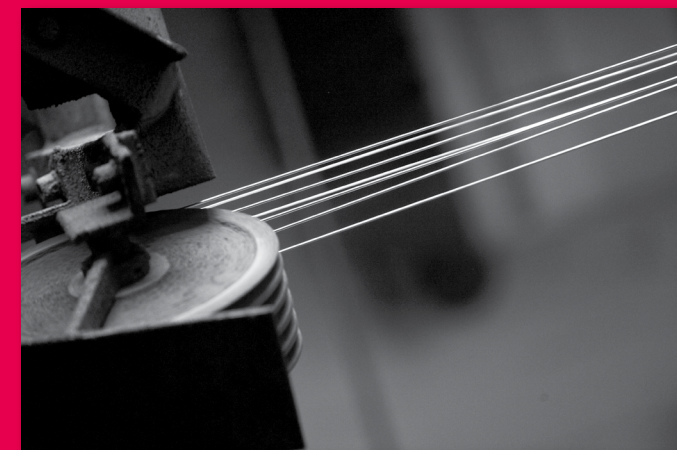
**DRAW COPPER** fabricated  
from 5/16" copper rod

**30+ MILLION POUNDS  
OF COPPER** processed  
annually

**15 EXTRUSION LINES**

Custom and competitive  
**VALUE-ADD,  
TERMINATED SOLUTIONS**

**STRATEGIC  
VERTICAL INTEGRATION**







## 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.



## 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.



## 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

*Kalas offers a selection of boot styles for all types of its terminals, cables and harness assemblies.*

## 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;



ANDERSON CONNECTER POWER CABLES



RING TO RING CABLE ASSEMBLIES



GROUND STRAPS



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](https://kalaswire.com/engineered-cable)

**KALAS MAILING ADDRESS**  
167 Greenfield Road  
Lancaster, PA 17601

**KALASWIRE.COM**  
P 717-335-0135

**TULSA WAREHOUSE**  
1810 East Jasper St.  
Tulsa, Oklahoma 74110

**MADE IN USA**

TS 16949 CERTIFIED  
ISO 9001: 2008 CERTIFIED  
ISO 14001: 2004 CERTIFIED

ECPD/CC/06.22



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  
Jacket  
PVC 80°C – 105°C  
18/2 – 10/2 gauge

AUTO TRIPLEX

Inner Conductors  
PVC 80°C – 105°C  
Jacket  
PVC 80°C - 105°C  
18/3 – 10/3 gauge

AUTO QUADRUPLUX

Inner Conductors  
PVC 80°C – 105°C  
Jacket  
PVC 80°C - 105°C  
16/4, 14/4 gauge

BOOSTER DUPLEX CABLE

PVC or TPE up to 105°C  
10/2 – 1/0-2 gauge

BATTERY CABLE 60 VOLTS DC

SGT  
SGR  
UL SGR 105°C (UL4127)  
SGX  
Meets SAE J1127  
6 gauge – 4/0

PRIMARY WIRE 60 VOLTS DC

GPT  
TWP  
Meets SAE J1128  
18 – 8 gauge

MULTIPLE CONDUCTOR TRAILER CABLE

Made with SAE Inner  
PVC or TPE Jacket  
80°C or 105°C  
Low Temperature -40°C  
Mixed gauges; Made to customer specifications;  
No Kalas standard

FLEXIBLE CORD

600V SERVICE CORD

ST, STO, STOO, STW, STOW, STOOW  
PVC Jacket, PVC Inner  
60°C or 105°C -40°C  
18 – 4 AWG; 2-4 conductors.  
Also available with greater than 4 conductors

300V SERVICE CORD

SJT, SJTO, SJTOO, SJTW, SJTOW, SJTOOW  
PVC Jacket, PVC Inner  
60°C or 105°C -40°C  
18 – 10 AWG; 2-4 conductors.  
Also available with greater than 4 conductors

300V SERVICE CORD

SJE, SJEQ, SJEQO, SJEW, SJEOW, SJEOWW  
TPE Jacket, PVC Inner  
105°C -40°C or -50°C  
18 – 10 AWG; 2-4 conductors  
Also available with greater than 4 conductors

600V SERVICE CORD

SE, SEQ, SEEO, SEOW, SEOWW  
TPE Jacket, TPE Inner  
105°C -40°C or -50°C  
18 – 4 AWG; 2-4 conductors  
Also available with greater than 4 conductors

RV AND MOBILE HOME

STW, STOW and STOOW:  
Please see Marine and Recreation

VACUUM CLEANER CORD

SVT  
PVC  
60°C or 105°C  
300 Volts  
18/3 – 16/3 AWG  
18/2 – 16/2 AWG

MARINE / RECREATION

BOAT CABLE

SINGLE CONDUCTOR  
PVC  
105°C Dry 75°C Wet (BC5W2)  
600 Volts  
16 AWG – 4/0

BOAT CABLE MULTI-CONDUCTOR FLAT

PVC  
105°C Dry 75°C Wet (BC5W2)  
600 Volts  
18 – 4 AWG; 2-3 conductors

BOAT CABLE MULTI-CONDUCTOR ROUND

PVC  
105°C Dry 75°C Wet (BC5W2)  
600 Volts  
18 – 6 AWG  
Contact Sales for # of conductor's

MARINE BATTERY

CABLE SGT  
SAE J328  
PVC 105°C -40°C  
60 Volts DC  
6 gauge – 4/0

MARINE PRIMARY

WIRE GPT  
SAE J328  
PVC 105°C -40°C  
60 Volts DC  
18 – 8 gauge

CONSTRUCTION WIRE

UF-B WITH GROUND

PVC/Nylon Conductors with  
PVC Jacket  
Sunlight Resistant  
90°C  
600 Volts  
14 – 6 AWG

PRODUCTS AT A GLANCE

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MACHINE TOOL WIRE (MTW), TEW & TR

MTW

PVC 90°C  
600 Volts  
#18 – 500 MCM

COIL LEAD

WIRE CL1251  
XLPE 125°C  
600 Volts  
18 AWG – 4/0

TEW

PVC 105°C  
600 Volts  
#18 – 500 MCM

TR32

PVC 90°C  
1400 Volts  
#18 – #10

TR64

PVC 90°C  
600 Volts  
#18 – #14

INDUSTRIAL POWER

TOUGHFLEX™ EPDM WELDING CABLE

EPDM Rubber  
-50°C to 105°C  
600 Volts  
#8 – 250 MCM

GENFLEX™ TYPE SC ENTERTAINMENT CABLE

CPE  
-50°C to 105°C  
600 Volts  
#8 – 250 MCM  
NEC 520, 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  
#8 – 4/0  
NEC 400, NFPA 70  
UL 1650, CSA PPC 22.2 - 96  
MSHA Flame Test  
Sunlight Resistant

FLEXWHIP™ WELDING CABLE

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

12 GAUGE/14 CONDUCTOR

ENTERTAINMENT LIGHTING CABLE

PVC Jacket, PVC Inner  
-40°C to 105°C  
600 Volts

SUBMERSIBLE 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  
2 AWG 3 conductor with #6 ground  
1/0 - 2/0 3 conductor with #6 ground

PVC TWISTED PUMP WITH GROUND

75°C Dry 105°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 10/3 all with ground  
8/3 with # 10 ground

UTILITY

UTILIFLEX™ GROUNDING CABLE

PVC or TPE  
-40°C – 90°C  
600 Volts  
2 – 4/0 gauge

UTILIFLEX™ JUMPER CABLE

EPR (Thermoset Ethylene-Propylene Rubber )  
2ga, 1/0, 2/0, 4/0 15kV  
1/0, 2/0, 4/0 25kV  
1/0 35kV

PRODUCTS AT A GLANCE

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MISCELLANEOUS

LOW ENERGY CIRCUIT CABLE

ULECC/C(UL) ULEC

PVC 60°C  
-25°C  
30 Volts  
Sunlight Resistant  
10-14 AWG

TRANSFORMER LEAD WIRE

PVC 105°C  
14 – 4/0 gauge

APPLIANCE WIRE (AWM)

PVC AWM UL

60°C or 105°C  
300, 600 or 1000 Volts  
Moisture & Oil Resistant as applicable  
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

SINGLE-CONDUCTOR, THERMOPLASTIC INSULATION							
1007	1011	1013	1015	1017	1024	1026	1027
1028	1032	1043	1056	1060	1228	1230	1231
1232	1235	1275	1278	1283	1284	1329	1335
1336	1337	1338	1339	1344	1383	1384	1569
10070	10269						

MULTIPLE-CONDUCTOR, THERMOPLASTIC INSULATION							
2085	2151	2184	2185	2186	2225	2240	2246
2247	2248	2249	2250	2251	2276	2277	2276
2277	2278	2279	2280	2281	2282	2283	2284
2285	2286	2287	2288	2305	2313	2377	2378
2379	2380	2381	2382	2383	2464	2576	2586
2614	2631	2654	2661	2662	2881		

SINGLE-CONDUCTOR, THERMOSET INSULATION							
3167	3182	3279	3284	3290	3295	3296	3297
3298	3300	3311	3320	3478	3484	3526	3993

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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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