



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

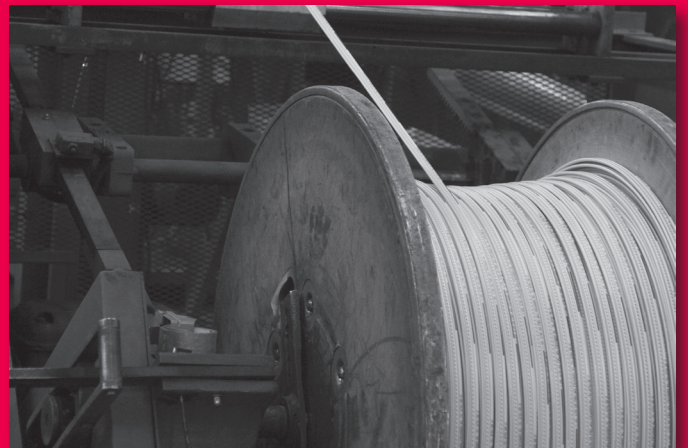
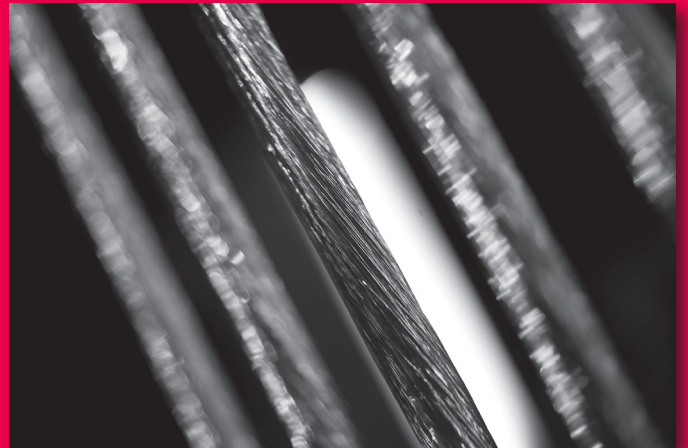
30+ MILLION POUNDS
OF COPPER processed
annually

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
- Auxillary

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.



5-STEP CUSTOM CABLE DESIGN

AVAILABLE FOR THE FOLLOWING PRODUCT TYPES:



Anderson Connector
Power Cables



Ring to Ring Cable
Assemblies



Ground Straps



Threaded Post
Battery Cables



SAE Jump-start,
Components and SAE
Jumper Cable Kits



Top Post Battery Cables
For Applications with 2-4
Batteries and Multiple
Battery Interconnects



Tapered, Top Post
Battery Cables

CUSTOMIZED SOLUTIONS FOR ALL APPLICATIONS



For more information visit www.kalaswire.com

KALAS HEADQUARTERS

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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
Jacket
PVC 80°C - 105°C
18/2 - 4/2 gauge

AUTO TRIPLEX

Inner Conductors
PVC 80°C - 105°C
XLPE 125°C
Jacket
PVC 80°C - 105°C
18/3 - 8/3 gauge

AUTO QUADPLEX

Inner Conductors
PVC 80°C - 105°C
XLPE 125°C
Jacket
PVC 80°C - 105°C
18/4 - 10/4 gauge

BOOSTER DUPLEX CABLE

PVC or TPE up to 105°C
6/2 - 2/2 gauge

PRIMARY WIRE 60 VOLTS DC

PVC GPT 105°C
PVC HDT 105°C
PVC TWP 105°C
XLPE GXL 125°C
XLPE SXL 125°C
XLPE TXL 125°C
Meets SAE J1128
18 - 8 gauge

BATTERY CABLE 60 VOLTS DC

PVC SGT 105°C
EPDM SGR 105°C
XLPE SGX 125°C
Meets SAE J1127
6 gauge - 4/0

MULTIPLE CONDUCTOR TRAILER CABLE

Inner Conductors
PVC 80°C or 105°C
TPE 105°C
XLPE 125°C
Low Temperature -40°C
Jacket
PVC or TPE
80°C or 105°C
Low Temperature -40°C
18 - 6 gauge

FLEXIBLE CORD

HARD SERVICE CORD PVC

SJT, SJTO, SJTOO, SJTW, SJTOW, SJTOOW
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, SJEQ, SJEEO, SJEW, SJEOW, SJEOWW
TPE Jacket PVC or TPE Inners
105°C -40°C or -50°C
300 Volts
18 - 10 AWG 2-4 conductors
Also available with greater than 4 conductors

EXTRA HARD SERVICE CORD PVC

ST, STO, STOO, STW, STOW, STOOW
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

VACUUM CLEANER CORD

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

RV AND MOBILE HOME

STW, STOW STOOW
and SEW: Please see
Marine and Recreation

EXTRA HARD SERVICE CORD

SE, SEO, SEEO, SEW, SEOW, SEOWW
TPE Jacket PVC or TPE Inners
105°C -40°C or -50°C
600 Volts
18 - 4 AWG 2-4 conductors
Also available with greater than 4 conductors

CONSTRUCTION WIRE

THW SINGLE CONDUCTOR

PVC 75°C Dry 75°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

UF-B WITH GROUND*

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

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

UNDERGROUND FEEDER WIRE (UF)

PVC
Sunlight Resistant
60°C Dry 60°C Wet
600 Volts
14 - 6 AWG

THERMOSET INSULATED WIRE

CSA File # LL22035
RHH 90°C Dry RHW-2 and USE-2 are 90°C Dry 90°C Wet
600 Volts
14 AWG - 4/0

XHHW-2 90°C WET 90°C DRY

600 Volts
12 AWG - 4/0
10 AWG and larger VW-1

SWITCHBOARD WIRE SIS UL AND CSA

SIS 90°C Dry
600 Volts
14 AWG - 4/0

MARINE / RECREATION

BOAT CABLE SINGLE CONDUCTOR

PVC
75°C Dry 75° Wet (BC5W2)
600 Volts
16 AWG - 4/0

BOAT CABLE FLAT MULTIPLE

PVC
75°C Dry 75° Wet (BC5W2)
600 Volts
18 - 6 AWG 2-3 conductors
2 AWG 2 conductor

BOAT CABLE TWISTED MULTIPLE CONDUCTOR

PVC
75°C Dry 75° Wet (BC5W2)
600 Volts
18 - 1 AWG
Contact Sales for # of conductor's

RV / SHORE POWER SUPPLY CORD

STW, STOW STOOW (PVC)
SEW (TPE Jacket PVC Inners)
60°C or 105°C -40°C
14/3 AWG (15 amperes)
12/3 AWG (20 amperes)
10/3 AWG (30 amperes)

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
20 - 8 gauge

MOBILE HOME

STW, STOW
STOOW (PVC)
SEW (TPE
Jacket PVC Inners)
60°C or 105°C -40°C
8/4 AWG (50A)
6/3 AWG plus one
6 or # 8 ground

KALAS HEADQUARTERS

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Specifications contained herein reflect current data and are subject to change.

*Stock Items

MADE IN
THE USA



PRODUCTS AT A GLANCE

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

MTW	COIL LEAD WIRE CL1251	TEW	TR32	TR64
PVC 90°C	XLPE 125°C	PVC 105°C	PVC 90°C	PVC 90°C
600 Volts	600 Volts	600 Volts	1400 Volts	600 Volts
#22 – 500 MCM	18 AWG – 4/0	#22 – 500 MCM	#22 – #10	#22 – #14

MISCELLANEOUS

LANDSCAPE LIGHTING*	LOW ENERGY CIRCUIT WIRE	FENCE WIRE*
PVC 60°C	PVC 60°C	High Density or Low Density
-25°C	-25°C	Polyethylene 75°C
150 Volts	150 Volts	18 – 12 gauge
Sunlight Reasistant	Sunlight Resistant	16/2 and 14/2 gauge
18/2 – 8/2 AWG	18 and 16 AWG	

TRACER (UL)*	TRANSFORMER LEAD WIRE	GROUNDING CABLE
High Density PE 75°C	PVC 105°	PVC or TPE
30 or 600 Volts	18 – 4/0 gauge	-50°C – 90°C
Bare Copper 16 – 14 AWG		600 Volts
16/2 – 14/2 AWG		2 – 4/0 gauge

SUBMERSIBLE PUMP CABLE

PVC TWISTED PUMP WITH GROUND*	TPE PUMP CABLE TWISTED*
75°C Dry 75° Wet 600 Volts	TPE 90°C Dry 75°C Wet
14 – 10 AWG 2 or 3 conductor with ground	Low Temperature Rating -65°C
8 AWG 2 or 3 conductor with # 10 ground	600 Volts
6 – 4 AWG 3 conductor with # 8 ground	12/2 12/3 10/2 10/3 all with ground

PVC FLAT PARALLEL PUMP WITH GROUND*	TPE PUMP CABLE JACKETED*
75°C Dry 75° Wet 600 Volts	TPE 90°C Dry 75°C Wet
14 – 10 AWG 2 or 3 conductor with ground	Low Temperature Rating -65°C
8 AWG 2 or 3 conductor with # 10 ground	600 Volts
6 – 4 AWG 3 conductor with # 8 ground	12/2 12/3 10/2 10/3 all with ground
	8/3 with # 10 ground

PVC FLAT HEAVY DUTY PUMP WITH GROUND*
75°C Dry 75° 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

INDUSTRIAL POWER

TOUGHFLEX™ EPDM WELDING CABLE	METRIC WELDING CABLE	UL K-90 WELDING CABLE
EPDM Rubber	EPDM Rubber	PVC / Nitrile Rubber
-50°C to 105°C	-50°C to 105°C	-35°C to 90°C
600 Volts	600 Volts	90 Volts
#6 – 350 MCM	16mm2 – 120mm2	#6 – 4/0

TOUGHFLEX™ TYPE SC ENTERTAINMENT CABLE	PORTABLE POWER CABLE	TOUGHFLEX™ TYPE W PORTABLE POWER CABLE
CPE	PPC/PPE	CPE
-50°C to 105°C	TPE	-40°C to 90°C Dry; 90°C Wet
600 Volts	-40°C to 90°C Dry; 75°C Wet	2000 Volts
#8 – 4/0	2000 Volts	#8 – 4/0
NEC 520, 525, 530	#8 – 300 MCM	NEC 400, NFPA 70
UL 1680, CSA PPC 22.2 - 96	UL MSHA	UL 1650, CSA PPC 22.2 - 96

K-FLEX™ TPE WELDING CABLE
TPE
-40°C to 90°C
600 Volts
#6 – 500 MCM

APPLIANCE WIRE (AWM)

PVC AWM UL	XLPE AWM UL
80°C or 105°C	125°C
300, 600 or 1000 Volts	600 Volts
Moisture Resistant	18 AWG – 4/0
Flat or Round Multiple Conductor	
also available	
22 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
22 AWG – 500 MCM

SINGLE-CONDUCTOR, THERMOPLASTIC INSULATION							
1007	1041	1058	1235	1306	1338	1391	1731
1011	1043	1059	1237	1307	1339	1392	10012
1013	1045	1060	1239	1308	1340	1400	10070
1015	1049	1120	1275	1312	1342	1401	10269
1017	1050	1220	1276	1314	1343	1416	
1024	1051	1228	1277	1322	1344	1447	
1026	1053	1229	1278	1323	1345	1509	
1027	1054	1230	1279	1329	1383	1569	
1028	1055	1231	1280	1335	1384	1722	
1030	1056	1232	1283	1336	1389	1729	
1032	1057	1233	1284	1337	1390	1730	

MULTIPLE-CONDUCTOR, THERMOPLASTIC INSULATION							
2001	2037	2082	2164	2214	2254	2312	2493
2002	2038	2083	2174	2215	2255	2313	2501
2003	2039	2085	2175	2216	2257	2327	2502
2004	2040	2086	2176	2217	2261	2328	2516
2005	2041	2130	2182	2218	2271	2329	2517
2006	2042	2131	2183	2219	2272	2330	2532
2007	2043	2132	2184	2220	2273	2334	2535
2008	2044	2135	2185	2221	2274	2343	2549
2009	2045	2136	2186	2222	2275	2344	2570
2010	2046	2137	2187	2223	2276	2345	2571
2011	2047	2138	2188	2224	2277	2346	2574
2012	2048	2139	2189	2225	2278	2358	2576
2013	2049	2140	2190	2226	2279	2359	2584
2014	2050	2141	2191	2227	2280	2362	2586
2015	2051	2142	2192	2228	2281	2367	2587
2016	2052	2143	2193	2229	2282	2368	2589
2017	2053	2144	2194	2230	2283	2369	2598
2018	2054	2145	2195	2231	2284	2370	2614
2019	2055	2146	2196	2232	2285	2377	2626
2020	2056	2147	2197	2233	2286	2378	2630
2021	2057	2148	2198	2234	2287	2379	2631
2022	2058	2149	2199	2235	2288	2380	2637
2023	2059	2150	2200	2236	2293	2381	2653
2024	2060	2151	2201	2237	2294	2382	2654
2025	2061	2152	2202	2238	2295	2383	2655
2026	2062	2153	2203	2239	2296	2384	2656
2027	2063	2154	2204	2240	2297	2385	2660
2028	2064	2155	2205	2242	2298	2386	2661
2029	2065	2156	2206	2246	2299	2387	2662
2030	2066	2157	2207	2247	2300	2388	2668
2031	2067	2158	2208	2248	2301	2446	2679
2032	2068	2159	2209	2249	2302	2461	2704
2033	2069	2160	2210	2250	2303	2462	2709
2034	2070	2161	2211	2251	2304	2463	2881
2035	2080	2162	2212	2252	2305	2464	20882
2036	2081	2163	2213	2253	2308	2490	21124

SINGLE-CONDUCTOR, THERMOSET INSULATION							
3167	3182	3196	3290	3296	3298	3311	1731
3173	3195	3279	3295	3297	3300	3320	10012

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MADE IN THE USA



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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