

Lake Cable is recognized for providing clients with reliable service. We offer flexibility with design and provide solutions that fit your applications' exact specifications and requirements with products that are proudly made in the USA. Shorter minimum manufacturing runs and superior lead times makes Lake Cable **BETTER. SMARTER. FASTER.**

Engineering Solutions Focus

Make Lake Cable your source for highly engineered OEM cable solutions. Team up with our expert staff and dedicated OEM design engineers to develop cables that enable your company to offer the same level of service and product development that manufacturers offer. With Lake Cable we can present a unified approach to accelerate your OEM efforts.

INDUSTRIES



LED Lighting
Industrial Automation
Renewable Energy
Lift Trucks/Aerial Platforms
Transportation
Geophysical/Oil & Gas
Security/Monitoring
Water Management

HVAC/R
Material Handling
Construction
Utility Vehicles
Industrial Sensors
Test Instrumentation
Jetway/Jet Bridge
Elevator/Hoistway

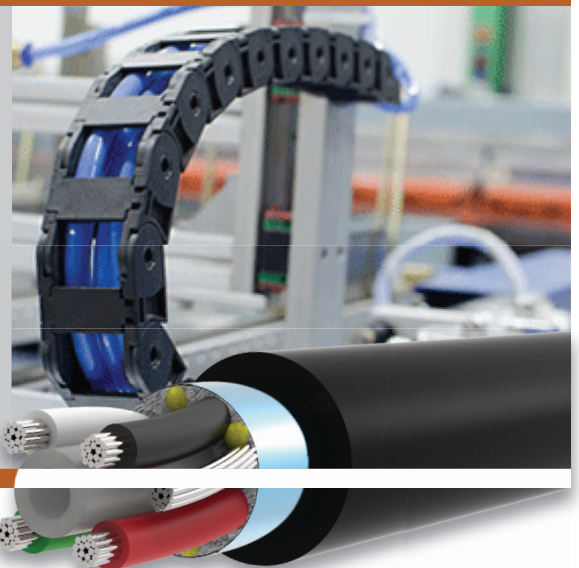


APPLICATIONS

CANBus/ProfiBus
Ethernet/RS485
Solar/Wind
Electric Vehicles
Fiber Optic Composite
Tactical CAT5E/6E
Hazardous Environments
Retractable Coil Cords
Continuous Flex Robotic

Vent Tube/Level Sensing
Flow Control & Monitoring
Process Control
Smart Power/PoE

LED Lighting:
Tower Obstruction
EMT Vehicle
Agriculture



Our Process

During the critical design phase: Seek comprehensive design input, identify and address critical performance attributes:

- **Strip Force**
- **Insulation Shrinkage**
- **Roundness**
- **Mold Compatibility**
- **Color Matching**
- **Noise Reduction**
- **Shielding Effect**
- **Mechanical Protections**
- **Custom Materials for any environment**

Through product development: Focus on design for manufacturing, compound compatible with potting and overmolding processes, meets electrical performance goals (capacitance, ampacity, noise suppression etc.) while staying cost effective.

Post sales support: Meet delivery expectations and resolve performance shortcomings resulting from product use in unique applications, while being easy to reach and communicate with.

MATERIALS AND CONSTRUCTIONS

Make Lake Cable your source for custom OEM cable solutions. Our expert staff of applications, materials and process engineers will assist you in developing cables that ideally fits your unique application.

Wire Drawing and Fabrication

- Gauges 26 through 4/0
- Concentric, Compact, Compressed, Rope Lay, Bunched
- Copper, Copper Alloys
- Bare and Tinned Copper

Compounds

- PVC and Nylon
- Foam PE and FEP
- XLPE, PE and PP
- FEP and ETFE
- CPE, TPE and TPR
- Polyolefin
- Urethanes
- Halar, PVDF
- Low Smoke Zero Halogen

Armoring

- Helical Bronze and Steel Tape
- Stainless Steel/Bronze/AL Braid
- MC - Interlocked AL/Steel Armor

Cabling Processes

- Planetary Cabling
- Cabling
- Pair Twining

Shielding

- AL and CU Laminate Tape
- Flexible Serve/Braid Shields
- Copper Tape - Helical/Corrugated
- Semi-Conductive Compounds

Extrusion

- Primary Insulation
- Nylon over PVC
- Custom Profiles
- Flat Constructions
- Tandem and Siamese Jacketing

CONSTRUCTIONS/ENGINEERING OPTIONS

Constructions

- Continuous Flex (Robotics) - materials and constructions that supports millions of flex cycles
- Industrial Sensors - mechanical and fluids resistant (chemical, oils, abrasion, load bearing)
- Shielding - Hi MU metals for electromagnetic noise and high coverage CU for EMI/RFI
- Retractable Coil Cords - excellent memory, flex fatigue resistant conductors
- Portable Cordage - MSHA approved/PVC and flexible elastomers/multiple colors
- Armors for harsh environments including: petrochemical, construction, mining and marine
- Instrument Jumpers and Test Leads Cable - when performance and cosmetics matter equally
- Hybrid Composites - combining fiber optics, copper and ethernet

Engineering Options

- Mold Compatibility - compounds and constructions suited for injection molding and potting
- Submersible/Sustained Immersion - designed to support compression glands and potting
- Strippable - construction suited for automated cut and stripping machinery
- Wet Environment - suited for IEC 60529 IP - Ingress Protection Rating (i.e.: IP-67)
- Welding Tolerant - short duration flash heat resistant compounds (TPV)
- Temperature Extremes - crosslinked, fluoropolymers, urethane and olefin alloy compounds
- Explosive Atmosphere - bronze zero spark shields; constructions support Class 1 Div 2
- All-Weather Suitability - UV exposure, wind-driven abrasion, ice, water, etc.
- Deployable - low friction coefficient jackets, low drag, scuff and tear resistant
- Tensile Load and Pull Strength - high tensile strength conductors and reinforced constructions



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Proudly Made in the USA 