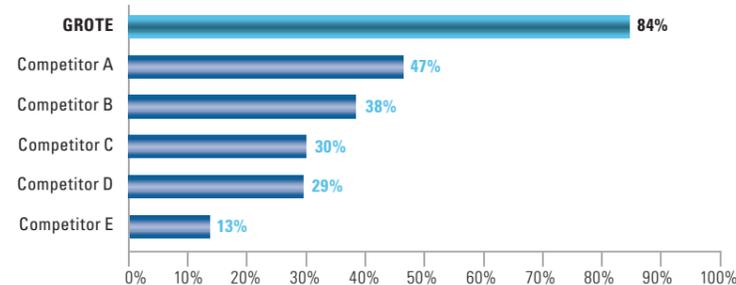


A Legacy of Performance

Grote Industries is a world leader in vehicle safety systems, providing a wide range of components for original equipment manufacturers and the vehicle aftermarket. Our products are used as original equipment on trucks and trailers, buses, passenger cars, recreational vehicles, industrial vehicles and agricultural machinery. Headquartered in the Midwest U.S., Grote is truly an international company with facilities in Toronto and Waterloo, Canada; Monterrey, Mexico; Bilbao, Spain and Shanghai, China. Over 1,000 people work in every phase of production from design and engineering to manufacturing, testing, marketing and distribution. Grote's product offering is the result of more than a century of world-class creativity, technology and engineering experience. At Grote, we have the agility to solve any lighting design problem "big or small" with innovation, expertise and quickness. Our resources give you the Performance Advantage you need to be competitive in YOUR market.

4" LED and Harness System Accelerated Life Test Results Pass Rate Tested in the most extreme conditions, Grote outperformed the competition 2 to 1



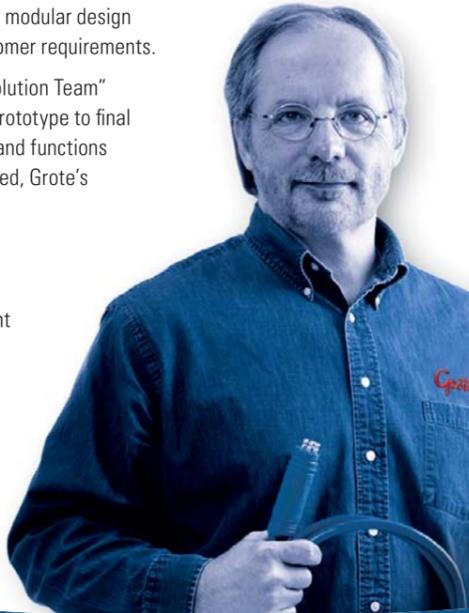
UBS™ Delivers Quality Grote harnesses, connectors and lighting systems are premium quality components that have been proven tough and reliable in testing and road performance. Manufactured to TS-16949 European quality standards, Grote products provide your customers with better performance, minimizing problems so vehicles stay out of the shop and on the road.

UBS™ Delivers Lower Cost Grote wiring and lighting kits are designed for quick installation – connecting right the first time, saving labor and reducing production costs. Mechanics need no special training or tools to install our products, and with no junction box, there are further production savings.

UBS™ Delivers Flexibility Grote systems are easy to customize, with minimal reference numbers and built-in, universal connection capabilities that accept competitive lamps. Smart, simple UBS™ modular design provides ultimate flexibility in meeting specific customer requirements.

UBS™ Delivers Solid Support Your Grote "Solution Team" supervises your enterprise from inception through prototype to final product to ensure that your lighting system installs and functions flawlessly. If at any time additional support is required, Grote's extensive European dealer network is there to help.

UBS™ Is Ready to Deliver for You We're a technology driven company with over 105 years of experience behind us and the design, development and manufacturing capabilities to respond to your requirements quickly with accurate designs and prototypes. You'll find that we'll work WITH you to find the harness system solution that works FOR you!



ISO/TS16949 • IP-69K • ADR

AVAILABLE LIGHTING PRODUCTS



Weather-Tight Connectivity

FOR OVER 30 YEARS



1 24N + 24S SOCKET CONNECTION
Two industry-standard 7-pin trailer-nose sockets for tractor power, wired to 10-way Grote UBS™ female socket. Connects with main power supply harness.

2 15-PIN CONNECTION NOSE BOX CONNECTION
An alternative harness that accepts 15-pin plugs from the tractor. Terminates in 10-way Grote UBS™ female socket. Connects with main power supply harness.

3 MARKER CONNECTION (FRONT & REAR)
Two-wire harness connects front corner marker lamp to main power supply harness. Includes Grote UBS™ male/female combination plug (left) to harness and AMP Superseal® connector (right) to lamp.

4 MAIN POWER SUPPLY
Connects to 24N, 24S or 15-pin nose box harness. Features 10-way Grote UBS™ male plug and UBS™ female plug for connection to rear power adapter harnesses with no junction box required. Includes drop-outs for extra functions.

5 MARKER CHAIN
Two-wire harness connects 3 to 7+ side marker lights. Includes Grote UBS™ male/female combination plug, female UBS™ socket and industry-standard AMP Superseal® connectors.

6 QUICK CONNECT EXTENSION
Connects extra lamps or accessories to main power supply harness. Includes Grote UBS™ male/female combination plug on one end, capped wire-ends on the other, providing options for alternative plugs. The system also includes a snap-on locking feature.

7 REAR POWER ADAPTER
Multi-wire harnesses connect to main power harness with Grote UBS™ male plug. Connects tail lamps, license lamps, ABS lamps and ground connection to power using industry-standard AMP Superseal® connectors and AMP 7-pin round connectors.

8 OPTIONAL MARKER CONNECTION ADAPTER
Add as many optional lamps as required and maintain the water-tight system.

Gain a Performance Advantage™

With the World's First and Most Reliable Modular Harness System for Trailers

THE ADVANTAGE OF Going with a Market Leader

Grote Industries developed the world's first modular harness system, Ultra-Blue-Seal® (UBS™) over 30 years ago. Because of its excellent connection sealing ability, system flexibility, and expansion capability, UBS™ is the backbone of all our systems. UBS™ has since become the number one best seller in the heavy-duty North American trailer market. Why? Because it works!

THE ADVANTAGE OF Superior Weather-Tight Sealing

Ultra-Blue-Seal® system connectors feature the industry's best protection against weather, dirt and corrosion. The patented double seal technology features double sealing rings that offer twice the sealing power of any other brand of connector. Marker light connections use industry-standard AMP Superseal® watertight, chemical resistant connectors for easy interface with Grote lamps as well as other brands.

THE ADVANTAGE OF Patented UBS™ Modular Versatility

UBS™ is flexible without being complex. The design allows for many types of connections without changing the entire harness system. It's easy to expand, because all the plugs use the same UBS™ sealing technology, which in turn provides long system life and high reliability. The UBS™ seal helps keep critical connections from corroding, even in the toughest weather or road conditions.

THE ADVANTAGE OF Connecting Without Compromising the Integrity of Your Vehicle Lighting System

Unlike other harness systems, UBS™ is designed to be maintained, not repaired. The harness is fast and easy to install and requires no tools... just "snap and go." Adding additional lines doesn't require cutting into the harness or puncturing the wires, and installers need no special training or experience. All this ensures that your trailer lighting works every time, trouble-free!

THE ADVANTAGE OF The Most Durable and Reliable System on the European Market

Grote's UBS™ system is the toughest you can get. We use only the best components, precisely assembled, and tested for current and resistance. Heat shrink splices and sonic welds ensure tight, weatherproof unions and joints. And we go to extremes to test our harnesses under conditions that go beyond what any trailer would be subjected to during its lifetime.

THE ADVANTAGE OF A Complete Line of Trailer Interior Lighting

Grote not only provides everything needed for trailer wiring, but also offers bright ideas for lighting. From LED lights to the switches and electronic controls to manage them, Grote has the interior lighting solution for any trailer and any environment.



Most Durable
MODULAR HARNESS SYSTEM IN EUROPE WITH A
3 Year Warranty

#1 in North America
with nearly 3.5 million
system components sold annually



GROTE'S UBS™ HARNESS SYSTEM IS COMPLETELY MODULAR. CHOOSE THE ENTIRE KIT OR JUST THE COMPONENTS YOU NEED.