



LIGHTING SYSTEMS CATALOG

LED Interior & Exterior | Trailer Kits | Power Cords | Emergency | Wire Harness | Off Road

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with Integrated Back-up Light Page 55



Grote
www.grote.com

Grote: A Worldwide Leader in Vehicle Lighting and Safety Systems

ECHOING OUR GROWING PROPORTION OF INTERNATIONAL BUSINESS, GROTE HAS TRANSITIONED FROM A NORTH AMERICAN-BASED INTERNATIONAL TO A TRUE MULTI-NATIONAL ORGANIZATION.

Grote's Madison, Indiana facility is our international headquarters, where a large proportion of our strategic lighting development and manufacturing takes place. We are transitioning our non-U.S. facilities to true strategic design and production centers of excellence for the entire enterprise.

Grote Europe, Niederwinkling, Germany, is Grote's European headquarters and is responsible for design and production of lighting safety systems to meet specific European requirements.

Grote of Canada, located in Markham, Ontario, is the headquarters for the manufacturing and development of Grote's Accessory lines. Grote of Canada serves both the original equipment and aftermarket channels for the entire Canadian market, and its new state-of-the-art facility operates at the forefront of industry manufacturing and distribution efficiency.

Grote Electronics, located in Waterloo, Canada, is a state-of-the-art, high-volume manufacturing facility dedicated to assembling Grote's light emitting diode (LED) circuit boards and electronic-based specialty products. Today, we are leading the industry in LED technology, not only for exterior lighting solutions, but for interior designs as well.

Grote De Mexico, located in Monterrey, is responsible for development and production of Grote wiring and trailer harnesses, including Grote's patented ULTRA-BLUE-SEAL® pigtail and harness system.

Grote China, located in Shanghai, China is a wholly-owned, foreign enterprise of Grote Industries. Grote's new facility is the launching pad for our Asian OE business growth.



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Visit Grote.com to get the most up-to-date product information

Whether you're a desktop, tablet or mobile techie, Grote.com puts all the Grote lighting information at your fingertips--wherever you may be. High resolution imagery, up-to-date stats and information, unique 360° views of many products, and the latest product releases are at your command 24/7.



GROTE.COM...

**Think of it as YOUR OWN PERSONAL ON-THE-GO
Lighting & Accessory Advisor!**

If you specify a Total Grote Lighting System, it is probable you will never incur unplanned maintenance caused by lighting.

Except for a catastrophic incident such as an accident, physical contact damage, or damage from a tire tread delamination, you should not incur unplanned downtime caused by lighting failure if you follow simple procedures during initial equipment acceptance and avoid certain practices that compromise the equipment.

THE BENEFICIAL BOTTOM LINE SAVINGS OF INVESTMENT GRADE LIGHTING WILL BE SIGNIFICANT.

A 1,000 trailer fleet typically has 4,000 stop/tail/turn lamps in circulation. At a 3.5 year average life expectancy per bulb, divided by 365 days per year, that fleet will experience approximately 3 failures per day. Calculate that with your maintenance and lost load time and you will quickly begin to understand the significance.

EXPECT THESE RESULTS:

- *If you replace incandescent lighting, Grote guarantees a dramatic reduction in lighting-caused CSA points.*
- *In ten years, you will save approximately four times the cost of the entire lighting package.*

ACHIEVING A NO/LOW MAINTENANCE PROGRAM

Improve and Protect Your CSA Rating

Lamp and wiring malfunctions are a leading contributor to poor CSA scores.

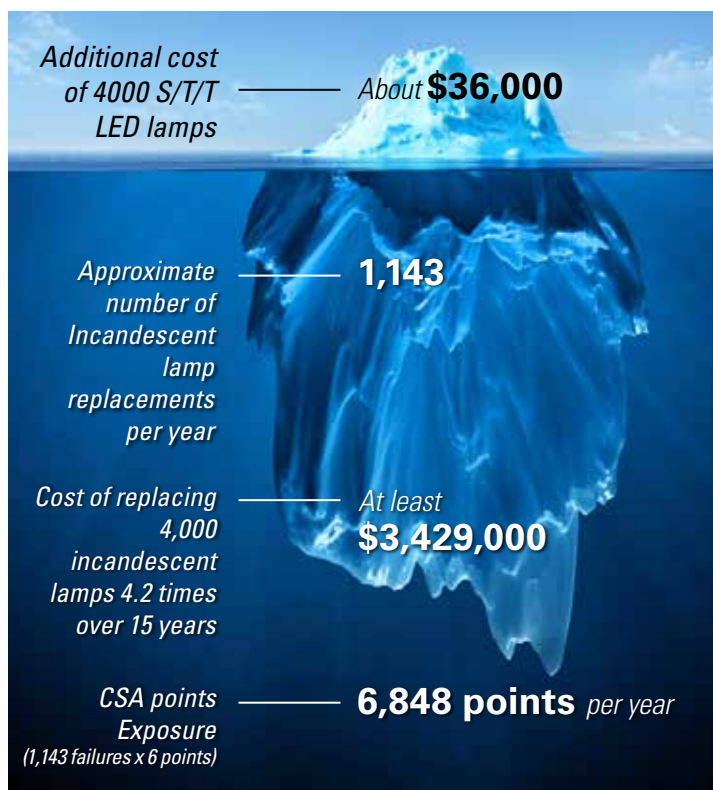
Six points for a malfunctioning stop/tail/turn lamp, for instance. Poor CSA scores and high maintenance costs usually go hand in hand. If your lighting acquisition strategy is based on low initial cost, you'll probably end up with higher overall lighting costs – and most likely a higher CSA score.

That's why one of the best investments you can make in the profitability of your company is to use only Grote Investment Grade LED lamps, harnesses, and power cords – products that vastly outperform and outlast products from bargain basement suppliers.

Grote only provides Investment Grade products – that's why our products are worth your investment.

The Financial Case Against Incandescent Stop/Tail/Turn Lamps

How much will a 1000 trailer fleet have to spend to save \$36,000 in initial cost?



Grote LED Interior Lamps Provide the Right Kind of Light With a Full Range of Fixtures

FULL RANGE OF FEATURES

LED technology models provide 50,000 hours of operation, low power draw (use 70% less power than incandescents), moisture and vibration protection, plus built-in automatic thermal protection.

FULL RANGE OF STYLES

Low profile and recessed mount models maximize head and storage room. Many rectangular and circular styles to choose from. Custom shapes for specialized lighting requirements – stepwell, courtesy, compact, rope, beehive, map; some with manual, automatic, or sensor-driven switch-off features.



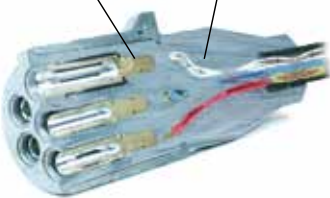
UltraLink™ Power Cords: Superior Power Delivery

**GROTE'S ULTRALINK™ CORDS PROVIDE MAXIMUM
RELIABILITY IN THE HARSHTEST ENVIRONMENTS.**

Plug Design

Solid brass
nickel-plated
pins

Crush resistant
weather-tight
elastomeric material



Cable-to-Plug Seal

Wire jacket is molded into the plug
with a patented bonding agent sealing
it from the elements and eliminating
the need for a spring



Crush Resistant

Grote's UltraLink's crush-resistant design
can survive the harshest environments
while conventional hollow core designs are
permanently deformed and rendered useless.

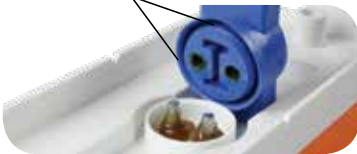


Grote UBS™ Harness Systems: Designed to Prevent Unplanned Downtime

GROTE'S UBS HARNESS SYSTEMS ARE DESIGNED TO PREVENT UNPLANNED DOWNTIME OVER THE LIFE OF THE VEHICLE. THEY'RE MODULAR FOR FLEXIBILITY AND TOTALLY SEALED TO LOCK OUT THE CORROSION FOUND IN TODAY'S HIGHWAY ENVIRONMENT.

Grote's Double Seal Advantage

The Double Seal is a molded-in circular ring that corresponds to the lamp connection. The inner sealing ring covers the terminal area. The outer ring seals around the outside area of the lamp plug connection creating the double seal.



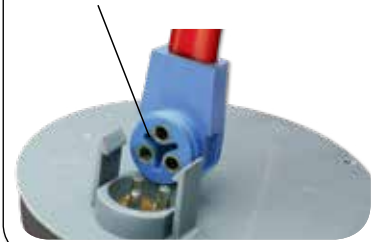
Avoid Corrosion

Our exclusive locking collar prevents accidental disconnects, allows for dielectric grease applications and provides a means of securing the connection to the trailer.



Grote's Male Pin Termination

Center grease reservoir protects against hydraulic pressure forcing connection open.

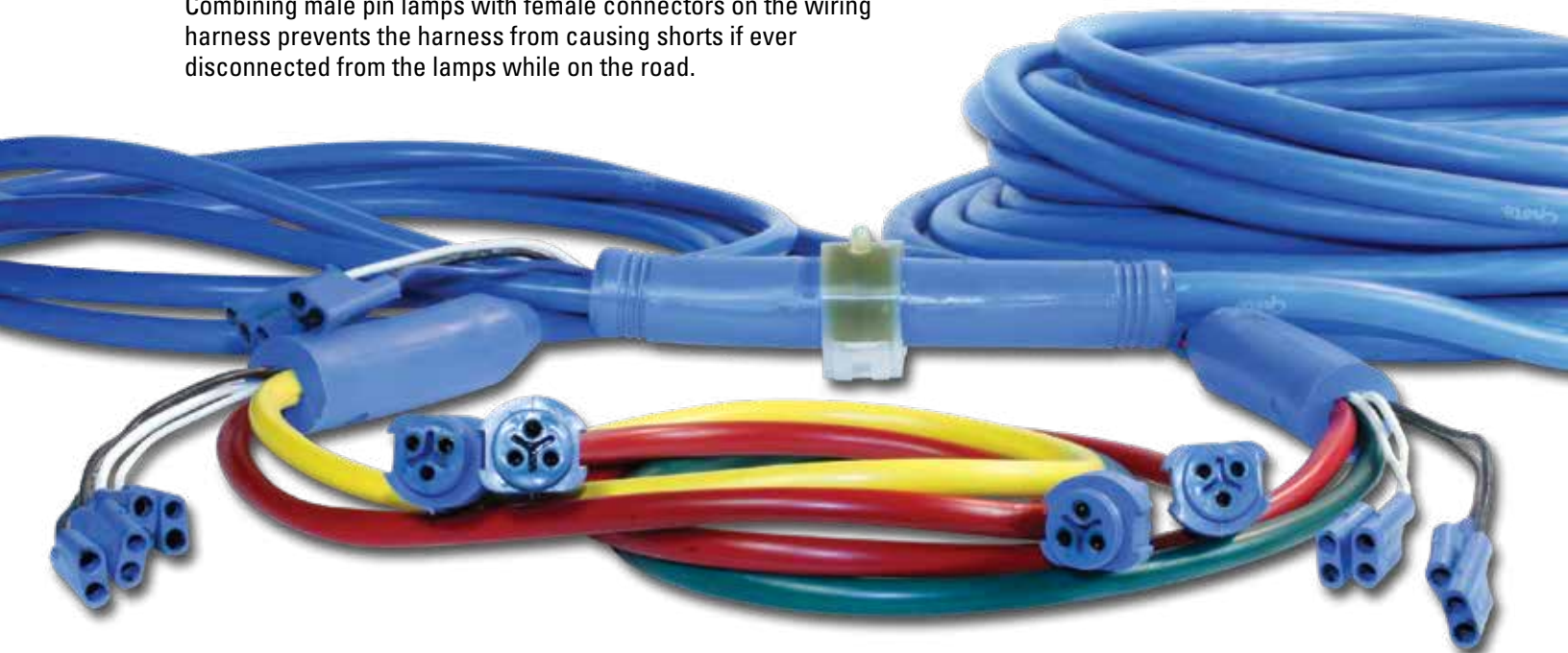


LOCKS OUT CORROSION

Grote's UBS harness system is so corrosion resistant it may never need service in normal use. Both within harness and at critical harness/lamp connection, Grote's patented Double Seal design provides complete and permanent protection from moisture and contamination.

PREVENTS DANGEROUS SHORT CIRCUITS

Grote's UBS male pin system is accepted in the market as superior to any other harness design. Solid, spun-brass terminals are tin-plated for maximum durability and corrosion resistance. Combining male pin lamps with female connectors on the wiring harness prevents the harness from causing shorts if ever disconnected from the lamps while on the road.



Grote Knows Lighting

GROTE KNOWS OPTIMUM PERFORMANCE IS CRITICAL IN TODAY'S RUGGED, HARSH AND DEMANDING ENVIRONMENTS. THAT'S WHY GROTE OFFERS A COMPLETE LINE OF ELECTRICAL CONNECTIONS AND ACCESSORIES.

WITH OVER 3000 PARTS AVAILABLE, Grote is the **ONLY** full line lighting supplier that offers everything needed to connect and protect vehicle lighting and electrical systems. Grote's complete line of terminals and connectors, wire and cable products, and protective and support items as well as switches and electrical assemblies, trailer connectors, battery connectors and cables and tools, gives you everything you need to meet the repair, maintenance and installation needs of today's vehicles.

PROFESSIONALS CHOOSE GROTE products to ensure top performance and professional results. Quality lighting and electrical connections and accessories....**GROTE'S GOT IT!**



Grote LED Work Lamps: High Output, Ultra Rugged

WHEN THE WORK JUST HAS TO GET DONE

HIGH OUTPUT:

Advanced LED technology plus sophisticated reflector optics waste less light, put more usable light on the task.

ULTRA RUGGED:

Field tested to excel in brutal off-road conditions. SAE J575E-compliant designs protect against vibration, corrosion, moisture, dust, and most direct impacts.

COLOR TEMPERATURE OPTIMIZED FOR PRODUCTIVITY:

Noon time sun-like color temperature output allows work crews to do better work over longer periods of time without eye fatigue.

READY FOR ANYTHING: Grote work lamps provide superior performance on mining, construction, off road, agriculture, utility, and emergency vehicles.



4_{IN}1

Four Functions in One Lamp



CHANGE TO THE NEW 4_{IN}1 INTEGRATED BACK-UP LIGHTS FROM GROTE

As an all-in-one stop, tail, turn, back-up combination light, Grote's patented integrated technology lets you save time, money and space on both installation and maintenance.

These new lights fit most standard 4-inch round or 6-inch oval mounting hardware, and allow for fewer lamps, connections, and mounting holes resulting in a more robust system, less frequent repairs and decreased time off the road awaiting parts.



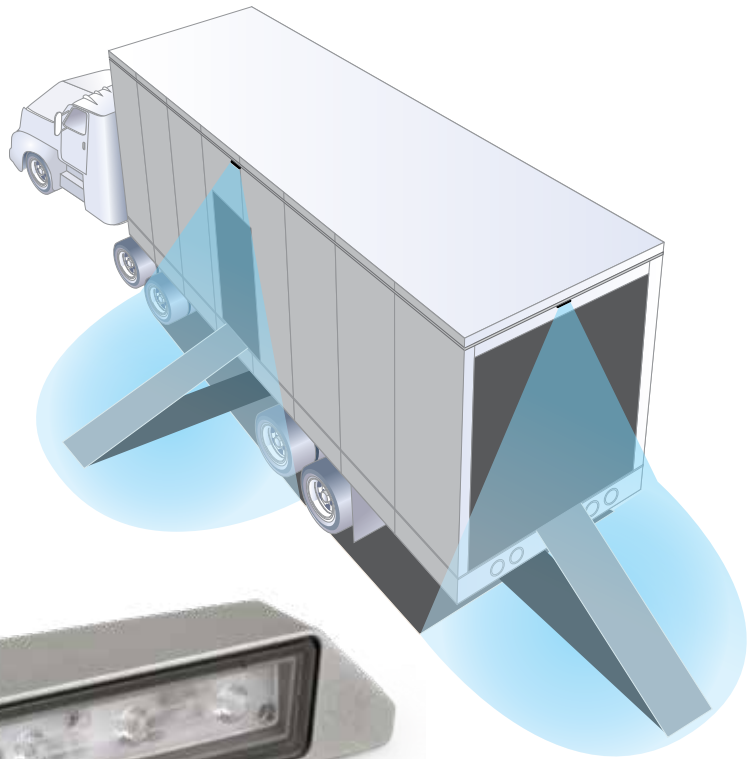
Rugged, dependable coverage for safety and security

GROTE RADIUS LIGHT: THE IDEAL LIGHT SOURCE FOR ANYWHERE YOU ENTER OR EXIT THE VEHICLE.

Thanks to Grote's Radius Light, you now have clear, bright illumination—so there is less need to worry about injury.

EASY TO INSTALL

Included with Grote's Radius Light are both a spacer and a gasket to make it easy to install on any vehicle. Additionally it comes with easy to follow step by step installation instructions.



Model Number Index

Index de Numéros de Pièces Índice por familia / número de parte

Grote Product Numbering System

Grote uses a meaningful product numbering system that makes it possible to quickly locate the correct product and verify the correct product has been selected. The typical Grote part number contains five digits, followed by a hyphen, followed by a single digit. Here's what it all means.

The first four digits or alpha characters (00000-0) indicate the product category.

0000 Displays
4000 Reflectors
4210 Brackets and Permit Holders
4400 Switches
4450 Flashers
4500 Clearance/Marker/Cab/ID or Bar Lamps
4600 Clearance/Marker/Cab/ID or Bar Lamps
4700 Clearance/Marker/Cab/ID or Bar Lamps
4800 Turn Signal Switch
4900 Clearance/Marker/Cab/ID or Bar Lamps
5000 Combination STT or single function turn lamps
5100 Combination STT or single function turn lamps
5200 Combination STT or single function turn lamps
5300 Combination STT or single function turn lamps
5400 Combination STT or single function turn lamps
5500 Combination STT or single function turn lamps
5600 Combination STT or single function turn lamps
5700 Combination STT or single function turn lamps
5800 Combination STT or single function turn lamps
5900 Combination STT or single function turn lamps
6000 License Lamp/Courtesy Lamps
6100 Dome/Map/Stepwell
6200 Backup lamps
6300 Flood/Fog/Tractor/Driving Lamp
6400 Flood/Fog/Tractor/Driving Lamp
6500 Boat Kits
6600 Spliceless Harness System
6700 Wire Kits/Pigtail and wire ass'y European System
6750 Rear Sills
6800 Wire Kits/Pigtails
6850 Main Harnesses
6900 T/S harness Kits
7000 Flags
7100 Flares
7200 Fuses and Horns
7300 Backup Alarms
7600 Roto Beacons
7700 School Bus
7800 Warning
8200 Military Lamps
8300 Military Lamps
8500 Automotive Replacement lenses
8600 Automotive Replacement lenses
8700 Cable Assemblies
8720 7 Way Plug and Socket
8730 7 Way Plug and Socket

8740 Spring
8750 Inserts used on 6/7 plug and sockets
8760 Boots
8770 Replacement motors and elec. Equip.
9000 Lens Assemblies
9800 Misc. Packaged Items
9900 Misc. Packaged Items

The next digit or alpha character (00000-0) indicate the product color or finish.

Lens	Finish
0 2 colors	
1 Clear, white or moonstone	1 White
2 Red	2 Black
3 Yellow	3 Chrome/Stainless Steel
4 Green	4 Aluminum
5 Blue	5 Zinc

The sixth digit (00000-0) indicates packaging.

0 Item only
1 Ind. Display
2 Ind. Plain
3 Bulk
4 Pair Pack
5 Bubble Pack, Display Pack, Clam Shell or Retail Pack (Crystal-Pack or Slide Lock)
6 Fleet Pack
7 Multiple Pack (Kit)

The absence of the sixth digit indicates product is in standard shelf packaging, e.g., individual pack or polybag, and in the case of lenses a standard shelf pack will have 6 to 12 to a container. Refer to your price sheet for exact quantity and other pack types.

Reference Notes:

For each product listing we have included the latest applicable Federal Motor Vehicle Standards [FMVSS], SAE code and technical specifications. In this area we have also listed related accessory items such as Pigtails, Brackets and Grommets.

The part numbers listed are suggested items; they may not be the only alternative. However, additional part numbers that may better fit your application can be located in the Pigtails, Brackets and Grommets section.

* Some of the foregoing marks, including those identified with an asterisk, are names or marks of third-parties who are not affiliated with Grote Industries, Inc.

NEW = New
PC = PC lamp rating
ECE = ECE
24 = 24 Volts
MULTI = Multiple Voltage
RETAIL = Retail Packaging
FOG = Compliant for J583 2004



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