

## LED PRODUCTS

### LED TECHNOLOGY

#### Features and benefits of LED Technology

- Designed to meet SAE standards.
- Lens and housing assemblies are polycarbonate.
- Marker lamps use self-sealing snap-lock plug assembly with integrated O-ring.
- Faster start up results in quicker reaction time for Stop/Turn/Tail lamps.
- LEDs are rated at 100,000 hours of operation.

**LED** - A Light Emitting Diode creates light when electrons pass from one plate to another and a photon is created. Light is created with almost no heat or invisible light as byproducts.

**The number of Diodes per light are changing all the time!**

**The following pages show our enhanced and expanded section of**

**LED Lighting Products.**

## GROTE LED LIGHTING

### Super Nova®, Thin-Line Clearance/Marker LED Lamp

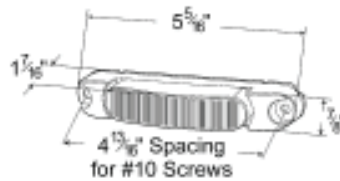
PART NO. T-E-GR45102 Red Lens, Red Body Kit (T-E-GR46922 + T-E-GR66930)

PART NO. T-E-GR45113 Yellow Lens, Yellow Body Kit (T-E-GR46933 + T-E-GR66930)

PART NO. T-E-GR46933 Yellow Lens, Yellow Body

PART NO. T-E-GR46902 Red Lens, White Body

PART NO. T-E-GR46903 Yellow lens, white body



# Grote

#### TECHNICAL SPECIFICATIONS

**Material:** Polycarbonate

**FMVSS SAE Code:** P2

**Finish:** White, Red, Yellow

**Voltage/Amp:** 12.8 V - .06 AMP

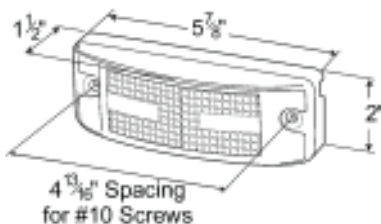
**Voltage/Amp:** 24 V - .06 AMP

**Bracket:** GR43074

**Pigtail:** GR66931 GR66930 GR66932 GR66940

- Sealed marker lamp
- Thin-Line design fits narrow rails and channels
- Uses Grote's Double Seal, UBS pigtail for maximum protection against corrosion
- Advanced Pin Connection System
- Turtleback® design for maximum durability
- Use of ultra-bright, high intensity SuperNova® diodes means less diodes to meet requirements.

### SuperNova®, Sealed Turtleback® II, Clearance/Marker LED Lamp



PART NO. T-E-GR47072 Red

PART NO. T-E-GR47073 Yellow

#### FEATURES & BENEFITS

- Bullet-proof potted for total circuit board protection
- Hermetic lens-to-housing seal
- Advanced Pin Connection System
- Tin-plated, brass terminals eliminate failure causing leak paths
- Uses same Double Seal, UBS pigtail as incandescent for a quick Plug-and-Go retrofit
- Turtleback® design for maximum lens durability

**Material:** Polycarbonate/Acrylic

**FMVSS SAE Code:** Reflex - A, P2 ~ Optic - P2, PC

**Finish:** White

**Voltage/Amp:** 12.8 V - .06 AMP

**Voltage/Amp:** 12.8 V - 0.12 AMP (PC)

**Voltage/Amp:** 24 V - .06 AMP

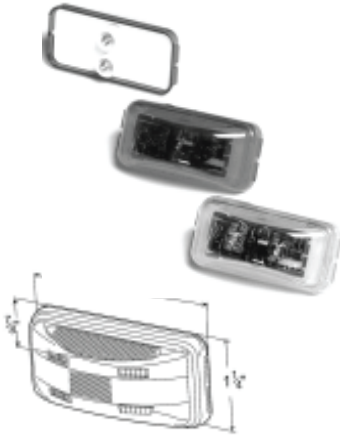
**Bracket:** 43030 43050

**Pigtail:** 66911 66910 67070 67071

# Grote

## GROTE LED LIGHTING

### SuperNova®, U.S. 15 Series, Clearance/Marker LED Lamp



Red Part No. T-E-GR47082

Yellow Part No. T-E-GR47083

- Potted for total circuit board protection
- Hermetic lens-to-housing seal
- Advanced Pin Connection System
- Uses same UBS Double Seal pigtail as incandescent
- Also available in Tailgate and Running Board LED Lamp Kits

**Material:** Polycarbonate

**FMVSS SAE Code:** P2

**Finish:** White

**Voltage/Amp:** 12.8 V - .06 AMP

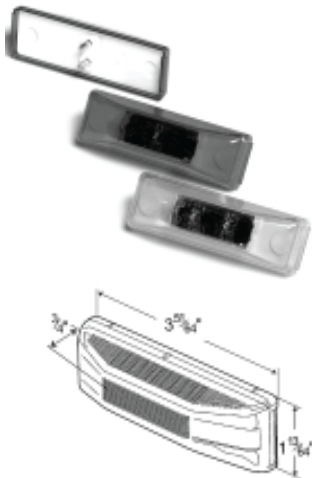
**Bracket:** GR43380 GR43370 GR43970 GR43980

**Grommet:** GR92520

**Pigtail:** GR66851 GR66850 GR67001

# Grote

### SuperNova®, U.S.19 Series, Clearance/Marker LED Lamp



Red Part No. T-E-GR47092

Yellow Part No. T-E-GR47093

- Bullet-proof potted for total circuit board protection
- Hermetic lens-to-housing seal
- Advanced Pin Connection System
- Uses same UBS pigtail as incandescent for a quick Plug-and-Go retrofit

**Material:** Polycarbonate

**FMVSS SAE Code:** P2

**Finish:** White

**Voltage/Amp:** 12.8 V - .06 AMP

**Bracket:** GR43780 GR43980 GR43390 GR43790 GR43850 GR43782 43783

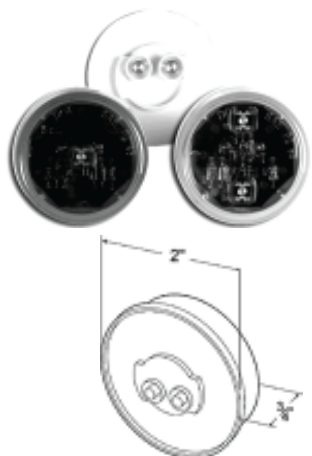
**Pigtail:** GR66982 GR66980 GR66981

# Grote

### SuperNova® 2", U.S. 30 Series, Clearance/Marker LED Lamp

Red Part No. T-E-GR47112

Yellow Part No. T-E-GR47113



- Bullet-proof potted for total circuit board protection
- Hermetic lens-to-housing seal
- Uses same Double Seal, UBS pigtail as incandescent for quick Plug-and-Go retrofit
- Fits gray (43150), black (43152), and Chrome (43153) theft-resistant flanges
- Advanced Pin Connection System
- 2" diameter lamp
- Tin-plated brass terminals eliminate failure causing leak paths and reduce corrosion

**Material:** Polycarbonate

**FMVSS SAE Code:** P2

**Finish:** White

**Voltage/Amp:** 12.8 V - .06 AMP

**Voltage/Amp:** 24 V - .06 AMP

**Bracket:** GR43690 GR49140 GR43150 GR43152 GR42153 GR43080 GR43532  
GR43040 GR43760

**Grommet:** GR92120 GR92150

**Pigtail:** GR66851 GR66850 GR67001

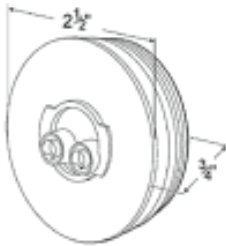
# Grote

## GROTE LED LIGHTING

### SuperNova® 2 1/2", U.S. 10 Series, Clearance/Marker LED Lamp

Red Part No. T-E-GR47122

Yellow Part No. T-E-GR47123



- Bullet-proof potted for total circuit board protection
- Hermetic lens-to-housing seal
- Uses same Double Seal, UBS pigtail as incandescent for a quick Plug-and-Go Retrofit
- Advanced Pin Connection System
- Fits gray (GR43160), black (GR43162), and Chrome (GR43163) theft-resistant flanges
- 2 1/2" diameter lamp
- Tin-plated, brass terminals eliminate failure causing leak paths and reduce corrosion

**Material:** Polycarbonate

**FMVSS SAE Code:** P2

**Finish:** White

**Voltage/Amp:** 12.8 V - .06 AMP

**Voltage/Amp:** 24 V - .06 AMP

**Bracket:** GR43690 GR43160 GR43162 GR43163 GR43080 GR43512 GR43522  
GR49140 GR43760

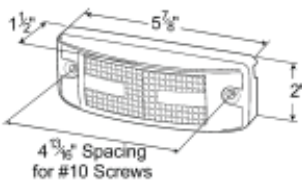
**Grommet:** GR91400 GR91410 GR92070 GR91890 GR91880

**Pigtail:** GR66851 GR66850 GR67001

# Grote

### SuperNova®, Sealed Turtleback® II, Clearance/Marker LED Lamp

Yellow Part No. T-E-GR47163



- Bullet-proof potted for total circuit board protection
- Hermetic lens-to-housing seal
- Advanced Pin Connection System
- Tin-plated, brass terminals eliminate failure causing leak paths
- Uses same Double Seal, UBS pigtail as incandescent for a quick Plug-and-Go retrofit
- Turtleback® design for maximum lens durability

**Material:** Polycarbonate/Acrylic

**FMVSS SAE Code:** Reflex - A, P2 ~ Optic - P2, PC

**Finish:** White

**Voltage/Amp:** 12.8 V - .06 AMP

**Voltage/Amp:** 12.8 V - 0.12 AMP (PC)

**Voltage/Amp:** 24 V - .06 AMP

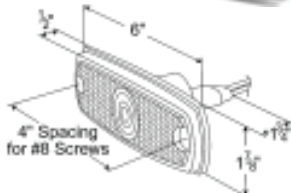
**Bracket:** GR43030 GR43050

**Pigtail:** GR66911 GR66910 GR67070 GR67071

# Grote

### SuperNova®, Low-Profile, Clearance/Marker LED Lamp

Yellow Part No. T-E-GR47253



- Bullet-proof potted for total circuit board protection
- Same look and mounting as incandescent
- Sealed hard-wire terminations with .180 molded UBS bullets
- Field replaceable lens
- Requires 1.25" hole for mounting
- Popular marker lamp on Peterbilt trucks, and on cab and sleeper trim

**Material:** Polycarbonate/Acrylic

**FMVSS SAE Code:** P2

**Finish:** White

**Voltage/Amp:** 12.8 V - .06 AMP

**Lens:** GR90072 GR90073

# Grote

## GROTE LED LIGHTING

### SuperNova® 4", U.S. 40 Series, Full Pattern S-T-T LED Lamp



Grote

**Red Part No. T-E-GR53192, w/Stainless Steel, Theft-Resistant Flange-Mount**

- Bullet-Proof potted for total circuit board protection
- Hermetic lens-to-housing seal
- Advanced Pin Connection System uses tin-plated, solid brass pin terminations
- Uses same UBS pigtail as Male Pin incandescent
- Also available in Strobe Lamp Version
- New uniform and concentric diode pattern
- Product available in factory assembled white and black polycarbonate and stainless steel theft-resistant mounting flanges

**Material:** Acrylic/Polycarbonate

**FMVSS SAE Code:** I, P2, S, T,

**Finish:** Gray

**Voltage/Amp:** Red: 12.8 V - .48 (I,S) / .04 (T,P2) AMP

**Voltage/Amp:** Yellow: 14 V - .64 (I) / .14 (P,P2) AMP

**Voltage/Amp:** Red: 24 V - .48 AMP (I,S) / .04 (T,P2) AMP

**Voltage/Amp:** Yellow: 24 V - 1.02 (P2) AMP

**Bracket:** GR43253 GR92510 GR92512 GR92513 GR43572 GR43642  
GR43655 GR43732 GR93190

**Grommet:** GR91740 GR91950

**Pigtail:** GR66815 GR66841 GR67002 GR66842 GR67013 GR66816  
GR66845 GR67005 GR66823 GR66830 GR67061 GR66846  
GR66836 GR67006

### SuperNova® 4", U.S. 40 Series, 10-Diode Pattern LED S-T-T Lamp



Grote

**Red Part No. T-E-GR53252 Grommet-Mount**

**Yellow Part No. T-E-GR53253 Grommet-Mount**

- Concentric pattern using only 10 diodes
- Lens design spreads light with maximum dispersion
- Bullet-Proof potted for total circuit board protection
- Hermetic lens-to-housing seal
- Advanced Pin Connection System uses tin-plated, solid brass pin terminals
- Uses same UBS pigtail as Male Pin incandescent
- Affordable LED technology
- Product available in factory assembled white and black polycarbonate, and stainless steel theft-resistant mounting flanges
- Use male to female adapter plug (66830) for an easy retrofit every time
- Lens design spreads light with maximum dispersion

**Material:** Acrylic/ABS/Polycarbonate

**FMVSS SAE Code:** I, P2, S, T

**Finish:** Gray

**Voltage/Amp:** Red: 12.8 V - .24 (I,S) / .03 (T) AMP

**Voltage/Amp:** Yellow: 12.8 V - .15 (P2) AMP

**Voltage/Amp:** Red: 24 V - .24 AMP (I,S) / .03 (T) AMP

**Voltage/Amp:** Yellow: 24 V - .24 (P2) AMP

**Bracket:** GR43253 GR92510 GR92512 GR92513 GR43572 GR43642 GR43655  
GR43732 GR93190

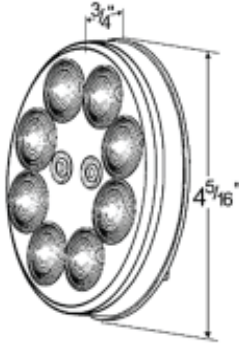
**Grommet:** GR91740 GR91950

**Pigtail:** GR66815 GR66841 GR67002 GR66842 GR67013 GR66816 GR66845  
GR67005 GR66823 GR66830 GR67061 GR66846 GR66836 GR67006



## GROTE LED LIGHTING

### SuperNova® 4", U.S. 40 Series, 10-Diode Pattern LED S-T-T Lamp



# Grote

**Red Part No. T-E-GR53282, w/White, Theft Resistant Flange-Mount**

**Red Part No. T-E-GR53292, w/Black, Theft-Resistant Flange-Mount**

**Red Part No. T-E-GR53302, w/Stainless Steel, Theft-Resistant Flange-Mount**

- Concentric pattern using only 10 diodes
- Lens design spreads light with maximum dispersion
- Bullet-Proof potted for total circuit board protection
- Hermetic lens-to-housing seal
- Advanced Pin Connection System uses tin-plated, solid brass pin terminals
- Uses same UBS pigtail as Male Pin incandescent
- Affordable LED technology
- Product available in factory assembled white and black polycarbonate, and stainless steel theft-resistant mounting flanges
- Use male to female adapter plug (66830) for an easy retrofit every time
- Lens design spreads light with maximum dispersion

**Material:** Acrylic/ABS/Polycarbonate

**FMVSS SAE Code:** I, P2, S, T

**Finish:** Gray

**Voltage/Amp:** Red: 12.8 V - .24 (I,S) / .03 (T) AMP

**Voltage/Amp:** Yellow: 12.8 V - .15 (P2) AMP

**Voltage/Amp:** Red: 24 V - .24 AMP (I,S) / .03 (T) AMP

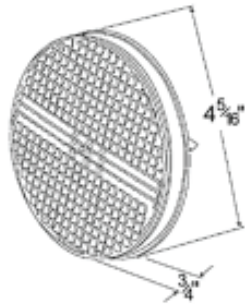
**Voltage/Amp:** Yellow: 24 V - .24 (P2) AMP

**Bracket:** GR43253 GR92510 GR92512 GR92513 GR43572 GR43642 GR43655  
GR43732 GR93190

**Grommet:** GR91740 GR91950

**Pigtail:** GR66815 GR66841 GR67002 GR66842 GR67013 GR66816  
GR66845 67005 GR66823 GR66830 GR67061 GR66846 GR66836  
GR67006

### SuperNova® 4", U.S. 40 Series, Full Pattern S-T-T LED Lamp



# Grote

**Red Part No. T-E-GR53312, Grommet-Mount**

- Bullet-Proof potted for total circuit board protection
- Hermetic lens-to-housing seal
- Advanced Pin Connection System uses tin-plated, solid brass pin terminations
- Uses same UBS pigtail as Male Pin incandescent
- Also available in Strobe Lamp Version
- New uniform and concentric diode pattern
- Product available in factory assembled white and black polycarbonate and stainless steel theft-resistant mounting flanges

**Material:** Acrylic/Polycarbonate

**FMVSS SAE Code:** I, P2, S, T,

**Finish:** Gray

**Voltage/Amp:** Red: 12.8 V - .48 (I,S) / .04 (T,P2) AMP

**Voltage/Amp:** Yellow: 14 V - .64 (I) / .14 (P,P2) AMP

**Voltage/Amp:** Red: 24 V - .48 AMP (I,S) / .04 (T,P2) AMP

**Voltage/Amp:** Yellow: 24 V - 1.02 (P2) AMP

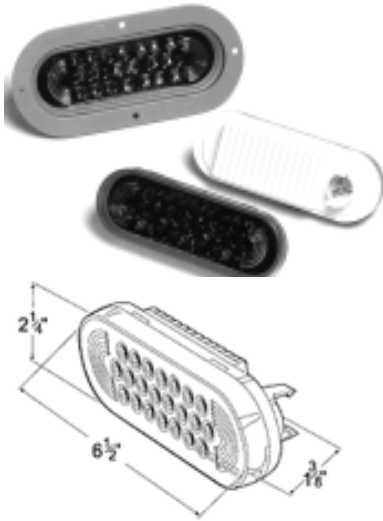
**Bracket:** 43253 92510 92512 92513 43572 43642 43655 43732 93190

**Grommet:** 91740 91950

**Pigtail:** 66815 66841 67002 66842 67013 66816 66845 67005 66823  
66830 67061 66846 66836 67006

## GROTE LED LIGHTING

### SuperNova® Oval, U.S. 60 Series, LED Lamp



# Grote

**Red Part No. T-E-GR53962, Grommet-Mount**

**Yellow Part No. T-E-GR53963, Grommet-Mount**

- Advanced Pin Connection System uses tin-plated, solid-brass terminals
- Bullet-Proof potted LED circuit board
- Male pin termination for premium sealability
- Connects to ULTRA-BLUE-SEAL® harness
- Meets specifications for vertical & horizontal mounting
- Also available in Submersible Boat Trailer LED Lamp Kit
- Grommet-Mount is available in Strobe Lamp Version
- Product available in factory assembled white, black, and chrome polycarbonate and stainless steel theft-resistant mounting flanges

**Material:** Acrylic/ABS

**FMVSS SAE Code:** Red: I, P2, S, T ~ Yellow: P2

**Finish:** White

**Voltage/Amp:** Red 12.8 V - .48 (S,I) / .06 (T) AMP

**Voltage/Amp:** Yellow 12.8 V - .48 AMP

**Voltage/Amp:** Red 24 V - .48 (S,I) / .06 (T) AMP

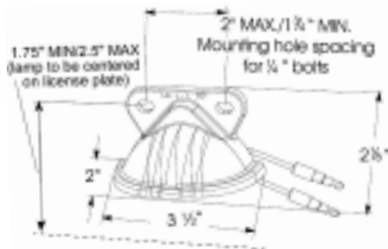
**Voltage/Amp:** Yellow 24 V - .48 AMP

**Bracket:** GR43362 GR43952 GR43220 GR43223 GR43222 GR43100 GR43723

**Grommet:** GR92420 GR92720

**Pigtail:** GR66815 GR66841 GR67002 GR66842 GR67013 GR66830 GR66835 GR67006 GR66813 GR66814 GR66823 GR66816 GR66845 67005

### White Light LED License Lamp



**Part No. T-E-GR60381 LED License Lamp**

- Low profile, rounded shape helps prevent damage resulting from loading dock collisions and accidental use as a step
- Because it is vibration resistant, it is an ideal lamp for dump trucks, refuse haulers, and concrete mixers
- Slotted mounting holes fit most lamp mounting screw patterns
- Sturdy mounting bosses withstand excessive torque without cracking
- Lamp is not polarity sensitive
- Bullet-Proof potting provides total circuit board protection

**Material:** Polycarbonate

**FMVSS SAE Code:** L

**Finish:** White, Gray housing White, Black housing

**Voltage/Amp:** 12.8 V - .04 AMP

# Grote

**GROTE LED LIGHTING**

**SuperNova® 2", U.S. 30 Series, Clearance/Marker LED Lamp**



**Yellow Part No. T-E-GR78433**

- Bullet-proof potted for total circuit board protection
- Hermetic lens-to-housing seal
- Uses same Double Seal, UBS pigtail as incandescent for quick Plug-and-Go retrofit
- Fits gray (43150), black (43152), and Chrome (43153) theft-resistant flanges
- Advanced Pin Connection System
- 2" diameter lamp
- Tin-plated brass terminals eliminate failure causing leakpaths and reduce corrosion

**Material:** Polycarbonate  
**FMVSS SAE Code:** P2  
**Finish:** White  
**Voltage/Amp:** 12.8 V - .06 AMP  
**Voltage/Amp:** 24 V - .06 AMP

**Thin-Line LED Pigtails**



**Part No. T-E-GR66930**

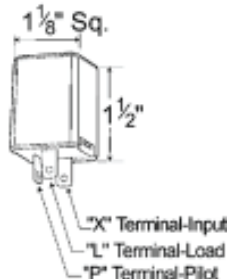
5" Long. Factory molded plugs for use with ULTRA-BLUE SEAL trailer wiring system. For chassis ground system:



**Part No. T-E-GR66931 - 6" Long, for Ground Return System**

- UBS Sealing ring
- Uses patented double-seal protection
- Grease grooves for additional sealing protection
- Factory molded plugs fouse with ULTRA-BLUE-SEAL® trailer wiring system
- Factory molded plugs

**Self Adjusting, Variable Load Flasher**



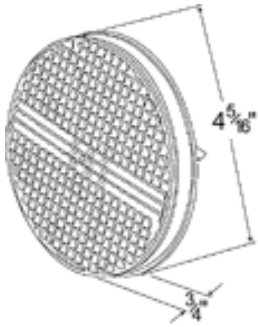
**Part No. T-E-GR44890**

- Electronic flasher automatically adjusts to LED current
- Rated from 1.0 to 20 AMP
- Heavy-duty contacts; external wire provides ground
- Steady flash rate for all LED applications



## GROTE LED LIGHTING

### SuperNova® 4", U.S. 40 Series LED Strobe Lights



**Red Part No. T-E-GR77352**

**Yellow Part No. T-E-GR77353**

- Available factory mounted in rubber housing with UBS pigtail
- Bullet-proof potted circuit board offers maximum protection against dirt, moisture, and corrosion
- Internal circuitry eliminates the need for an external power supply or control module
- Requires only a 12-volt DC connection for power
- Functions as either a dual flash strobe or a quad flash strobe
- Lamps fit 4 inch standard mounting
- Covered by Grote's 10-year LED warranty
- Lamps mount in any orientation
- Grote's rugged Plug-and-Go® terminals make for a quick, easy connection every time
- Meets SAE J845 specifications

**Material:** Acrylic/Polycarbonate

**Finish:** Grey

**Voltage/Amp:** 12.8 V - .25 AMP

**Voltage/Amp:** White/Blue 12.8 V - .24 AMP

**Bracket:** GR43253 GR92510 GR92512 GR92513 GR43572 GR43642 G  
GR43655

**Grommet:** GR91740 GR91950

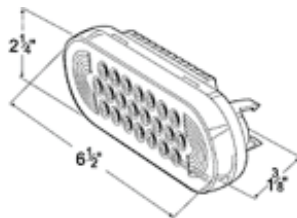
**Pigtail:** GR66815 GR66841 GR67002 GR66842 GR67013 GR66816 GR66845  
GR67005 GR66823 GR66830 GR67016 GR66846

# Grote

### SuperNova® Oval, U.S. 60 Series LED Strobe Lights

**Red Part No. T-E-GR77362**

**Yellow Part No. T-E-GR77363**



- Bullet-proof potted circuit board offers maximum protection against dirt, moisture, and corrosion
- Internal circuitry eliminates the need for an external power supply or control module
- Requires only a 12-volt DC connection for power
- Functions as either a dual flash strobe or a quad flash strobe
- Lamps fit oval standard mounting holes
- Covered by Grote's 10-year LED warranty
- Lamps mount in any orientation
- Grote's rugged Plug-and-Go® terminals make for a quick, easy connection every time
- Meets SAE J845 specifications

**Material:** Acrylic/ABS

**Finish:** White

**Voltage/Amp:** 12.8 V - .25 AMP

**Bracket:** GR43362 GR43952 GR43220 GR43223 GR43222 GR43100

**Grommet:** GR92420 GR92720

**Pigtail:** GR66815 GR66841 GR67002 GR66842 GR67013

# Grote