



HIGH PERFORMANCE TRAILER LIGHTING & ACCESSORIES



## Manufactured Exclusively by Metra Electronics:

Heise LED Lighting Systems are engineered and manufactured to meet all international standards. Heise's product line of bright, durable, state-of-the-art LED lights continues to grow, making it one of the top global leaders in the lighting market.

iBEAM Safety Systems manufactures dependable products for safer driving. iBEAM products utilize the latest technology and high-quality materials to help make blind spots a thing of the past.

The Install Bay is a one-stop-shop for reliable and cost-effective products in the aftermarket automotive accessories industry. These tools, hardware, and installation accessories are trusted in the majority of today's professional install shops.

Metra's 70+ year history, experience and approach to engineering and manufacturing ensures that all of these brands' products stand out among the competitors and are the highest quality available.

# HIGH PERFORMANCE TRAILER LIGHTING & ACCESSORIES

Auxiliary driving and fog lights are intended for use solely as auxiliary lighting. They are not intended to be used for headlight purposes, nor are they certified for headlight usage. Auxiliary lights are designed to improve visibility during night time driving and inclement weather. Irresponsible use of any auxiliary light can be dangerous and illegal. Auxiliary driving lights are intended to supplement the high-beam of a standard headlamp system. They are not intended for use alone or with the low-beam of a standard headlamp system. Lighting laws vary from state to state.

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### **Better Construction, Inside and Out**

Heise's LED lighting products integrate advanced thermal management, short circuit and open circuit protection and many other innovative features to repel moisture and extend the overall life of the product. Many of the lights are designed with virtually unbreakable materials to withstand the elements in even the harshest environments. All products undergo rigorous testing during the development and manufacturing process and once again before leaving the factory.

# TRAILER LIGHT LED BAR

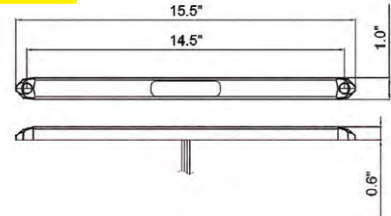
**HE-TR1501**

THINLINE LED STOP/TURN/TAIL/BACKUP LIGHT

**13** LED

**NEW!**

- 10 LEDs: Stop, turn, taillight functions
- Hard wire connections
- FMVSS S T I R/U3
- @12VDC .1A for backup
- 3 LEDs for backup lights
- Red & white polycarbonate lens
- @ 12VDC .445A for stop/turn LEDs
- @12VDC .03A for taillight



# OVAL TRAILER LED

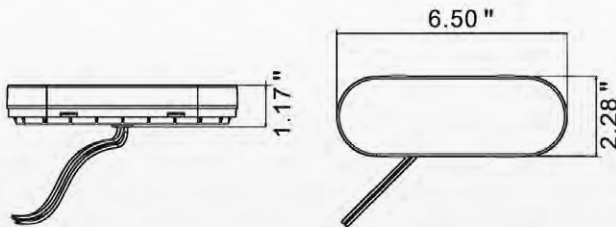
**HE-TR6001**

**6** INCH OVAL TRAILER LED LIGHT W/ GROMMET

**14** LED

**NEW!**

- 14 red LEDs: Stop, turn, taillight functions
- PL-3 connector
- PMMA lens and ABS housing
- @12VDC .06A for taillight
- Sonically sealed, weather-resistant
- 6" rubber grommet
- FMVSS S2 T2 I6 / I6 / R



**HE-TR6002**

**6** INCH OVAL TRAILER LED LIGHT W/ GROMMET

**14** LED

**NEW!**

- 14 amber LEDs: Turn functions
- PL-3 connector
- PMMA lens and ABS housing
- @12VDC .06A for taillight
- Sonically sealed, weather-resistant
- 6" rubber grommet
- FMVSS S2 T2 I6 / I6 / R



**HE-TR6003**

**6** INCH OVAL TRAILER LED LIGHT W/ GROMMET

**14** LED

**NEW!**

- 14 white LEDs: Backup function
- PL-3 connector
- PMMA lens and ABS housing
- @12VDC .24A for backup
- Sonically sealed, weather-resistant
- 6" rubber grommet
- FMVSS S2 T2 I6 / I6 / R



# OVAL TRAILER LED

## HE-TR6004

6 INCH OVAL LED STOP/TURN/TAIL/BACKUP LIGHT

10 LED

NEW!

- 10 LEDs: Stop, turn, taillight functions
- Sonically sealed, weather-resistant
- PMMA lens and ABS housing
- 12VDC .43A for stop/turn LEDs
- @12VDC .06A for taillight
- 4 LEDs for backup lights
- PL-3 connector + male bullet
- FMVSS S2 T2 I6 R
- @12VDC .24A for backup



## HE-TR6005

6 INCH OVAL TRAILER LED LIGHT

14 LED

NEW!

- 14 red LEDs: Stop, turn, taillight functions
- Sonically sealed, weather-resistant
- FMVSS S2 T2 I6 / I6 / R
- @12VDC .06A for taillight
- PL-3 connector
- PMMA lens and ABS housing
- @12VDC .38A for stop/turn LEDs



## HE-TR6006

6 INCH OVAL TRAILER LED LIGHT

14 LED

NEW!

- 14 amber LEDs: Turn functions
- Sonically sealed, weather-resistant
- FMVSS S2 T2 I6 / I6 / R
- PL-3 connector
- PMMA lens and ABS housing
- @12VDC .06A for turn signal



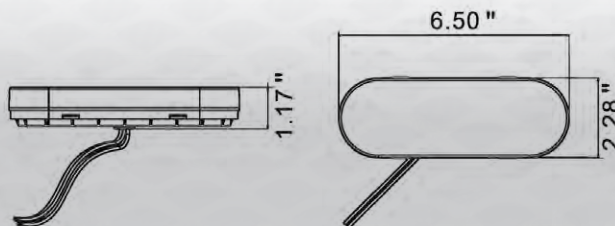
## HE-TR6007

6 INCH OVAL TRAILER LED LIGHT

14 LED

NEW!

- 14 white LEDs: Backup functions
- Sonically sealed, weather-resistant
- FMVSS S2 T2 I6 / I6 / R
- PL-3 connector
- PMMA lens and ABS housing
- @12VDC .24A for backup



### OPTIONAL PARTS FOR 6 INCH OVAL LED LIGHTS PG 11

- HE-TRM101 Surface Mount
- HE-TRM102 Rubber Grommet

# ROUND TRAILER LED

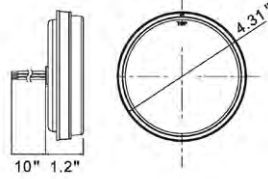
**HE-TR4001**

**4** INCH ROUND TRAILER LED LIGHT WITH GROMMET

**14** LED

**NEW!**

- 14 red LEDs: Stop, turn, taillight functions
- Sonically sealed, weather-resistant
- FMVSS S2 T2 I6 / I6 / R
- @ 12VDC .38A for stop/turn LEDs
- PL-3 connector with grommet
- PMMA lens and ABS housing



**HE-TR4002**

**4** INCH ROUND TRAILER LED LIGHT WITH GROMMET

**14** LED

**NEW!**

- 14 amber LEDs: Turn functions
- Sonically sealed, weather-resistant
- FMVSS S2 T2 I6 / I6 / R
- PL-3 connector with grommet
- PMMA lens and ABS housing
- @12VDC .06A for turn



**HE-TR4003**

**4** INCH ROUND TRAILER LED LIGHT WITH GROMMET

**14** LED

**NEW!**

- 14 white LEDs: Backup functions
- Sonically sealed, weather-resistant
- FMVSS S2 T2 I6 / I6 / R
- PL-3 connector with grommet
- PMMA lens and ABS housing
- @12VDC .24A for backup



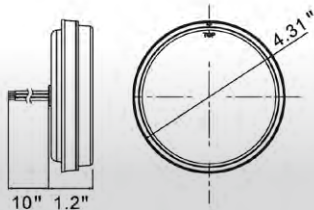
**HE-TR4004**

**4** INCH ROUND LED STOP/TURN/ TAIL/BACKUP LIGHT

**10** LED

**NEW!**

- 10 LEDs: Stop, turn, taillight functions
- PL-3 connector + male bullet
- PMMA lens and ABS housing
- @ 12VDC .43A for stop/turn LEDs
- @12VDC .06A for taillight
- 4 LEDs for backup lights
- Sonically sealed, weather-resistant
- FMVSS S2 T2 I6 / I6 / R
- @12VDC .24A for backup



## OPTIONAL PARTS FOR 4 INCH ROUND LED LIGHTS PG 11

- HE-TRM103 Surface Mount
- HE-TRM104 Rubber Grommet

# ROUND TRAILER LED



**HE-TR4005**

**4** INCH ROUND TRAILER LED LIGHT

**14** LED

**NEW!**

- 14 red LEDs: Stop functions
- Sonically sealed, weather-resistant
- FMVSS S2 T2 I6 / I6 / R
- PL-3 connector
- PMMA lens and ABS housing
- @12VDC .06A for taillight



**HE-TR4006**

**4** INCH ROUND TRAILER LED LIGHT

**14** LED

**NEW!**

- 14 amber LEDs: Turn functions
- Sonically sealed, weather-resistant
- FMVSS S2 T2 I6 / I6 / R
- PL-3 connector
- Amber PMMA lens and ABS housing
- @12VDC .06A for turn



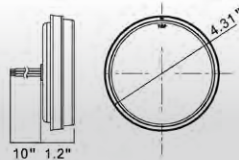
**HE-TR4007**

**4** INCH ROUND TRAILER LED LIGHT

**14** LED

**NEW!**

- 14 white LEDs: Backup functions
- Sonically sealed, weather-resistant
- FMVSS S2 T2 I6 / I6 / R
- PL-3 connector
- PMMA lens and ABS housing
- @12VDC .24A for backup



## OPTIONAL PARTS

FOR 4 INCH ROUND LED LIGHTS PG 11

- HE-TRM103 Surface Mount
- HE-TRM104 Rubber Grommet

# MARKER / CLEARANCE LIGHT WITH REFLECTOR

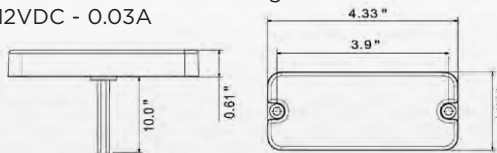
**HE-TRRF01**

MARKER / CLEARANCE LIGHT WITH REFLECTOR

**2** LED

**NEW!**

- 2 LED: Side marker functions
- Hardwire connections
- FMVSS A2 P2
- Red LED and reflector in one
- PMMA lens and ABS housing
- @12VDC - 0.03A



**HE-TRRF02**

MARKER / CLEARANCE LIGHT WITH REFLECTOR

**2** LED

**NEW!**

- 2 LED: Side marker function
- Hardwire connections
- FMVSS A2 P2
- Amber LED and reflector in one
- PMMA lens and ABS housing
- @12VDC - 0.03A



# ROUND MARKER / CLEARANCE LIGHT



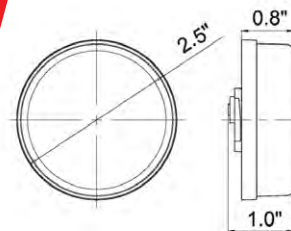
**HE-TR2501**

**2.5** INCH ROUND MARKER / CLEARANCE LIGHT

**9** LED

**NEW!**

- 9 LED round marker - red
- PL-10 plug on housing
- FMVSS P2 P3
- Grommets included
- PMMA lens and ABS housing
- @12VDC - 0.03A



**HE-TR2502**

**2.5** INCH ROUND MARKER / CLEARANCE LIGHT

**9** LED

**NEW!**

- 9 LED round marker - amber
- PL-10 plug on housing
- FMVSS P2 P3
- Grommets included
- PMMA lens and ABS housing
- @12VDC - 0.03A



**HE-TR2503**

**2.5** INCH ROUND MARKER / CLEARANCE LIGHT

**9** LED

**NEW!**

- 9 LED round marker - white
- PL-10 plug on housing
- FMVSS P2 P3
- Grommets included
- PMMA lens and ABS housing
- @12VDC - 0.03A



**HE-TR2504**

**2.5** INCH ROUND MARKER / CLEARANCE LIGHT

**9** LED

**NEW!**

- 9 LED round marker - red
- PMMA lens and ABS housing
- @12VDC - 0.03A
- PL-10 plug on housing
- FMVSS P2 P3



**HE-TR2505**

**2.5** INCH ROUND MARKER / CLEARANCE LIGHT

**9** LED

**NEW!**

- 9 LED round marker - amber
- Lens and ABS housing
- @12VDC - 0.03A
- PL-10 plug on housing
- FMVSS P2 P3



**HE-TR2506**

**2.5** INCH ROUND MARKER / CLEARANCE LIGHT

**9** LED

**NEW!**

- 9 LED round marker - white
- PMMA lens and ABS housing
- @12VDC - 0.03A
- PL-10 plug on housing
- FMVSS P2 P3

**OPTIONAL PART**  
FOR 2.5 INCH ROUND MARKER / CLEARANCE LIGHTS PG 11

HE-TRM105 Rubber Grommet



# ROUND MARKER / CLEARANCE LIGHT

## HE-TR2001 2 INCH ROUND MARKER / CLEARANCE LIGHT

6 LED

NEW!

- 6 LED round marker - red
- PMMA lens and ABS housing
- @12VDC - 0.03A
- PL-10 plug on housing
- FMVSS P2 P3



## HE-TR2002 2 INCH ROUND MARKER / CLEARANCE LIGHT

6 LED

NEW!

- 6 LED round marker - amber
- PMMA lens and ABS housing
- @12VDC - 0.03A
- PL-10 plug on housing
- FMVSS P2 P3

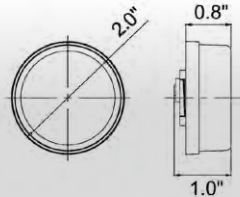


## HE-TR2003 2 INCH ROUND MARKER / CLEARANCE LIGHT

6 LED

NEW!

- 6 LED round marker - white
- PMMA lens and ABS housing
- @12VDC - 0.03A
- PL-10 plug on housing
- FMVSS P2 P3



### OPTIONAL PART FOR 2 INCH ROUND MARKER / CLEARANCE LIGHTS PG 11

HE-TRM106 Rubber Grommet

## HE-TR7501 0.75 INCH ROUND MARKER / CLEARANCE LIGHT

3 LED

NEW!

- 3 LED round marker - red
- Hardwire connections
- FMVSS P2
- Sonically sealed, weather-resistant
- Polycarbonate Lens
- @12VDC - 0.03A



## HE-TR7502 0.75 INCH ROUND MARKER / CLEARANCE LIGHT

3 LED

NEW!

- 3 LED round marker - amber
- Hardwire connections
- FMVSS P2
- Sonically sealed, weather-resistant
- Polycarbonate lens
- @12VDC - 0.03A

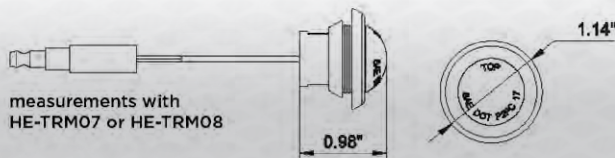


## HE-TR7503 0.75 INCH ROUND MARKER / CLEARANCE LIGHT

3 LED

NEW!

- 3 LED round marker - white
- Hardwire connections
- FMVSS P2
- Sonically sealed, weather-resistant
- Polycarbonate lens
- @12VDC - 0.03A



### OPTIONAL PARTS FOR 0.75 INCH ROUND MARKER / CLEARANCE LIGHTS PG 11

HE-TRM107 Stainless Steel Flange  
HE-TRM108 Rubber Grommet



**HE-TRWH01**

**0.18** INCH BULLET CONNECTOR

**10** PACK

**NEW!**

- Bulk 10 pack of 0.18" bullet connectors
- Used for the following lights: HE-TR6004 and HE-TR4004



**HE-TRWH02**

**PL-10** MALE 2 PIN CONNECTOR

**10** PACK

**NEW!**

- Bulk 10 pack of PL-10 connectors
- Used for the following lights: HE-TR25xx and HE-TR20xx series
- 2-pin male



**HE-TRWH03**

**PL-3** MALE RIGHT ANGLE CONNECTOR

**10** PACK

**NEW!**

- Bulk 10 pack of PL-3 connectors
- Use with HE-TR60xx and HE-TR40xx
- 3-pin male



**HE-TRWH04**

**PL-3** FEMALE CONNECTOR

**10** PACK

**NEW!**

- Bulk 10 pack of PL-3 connectors
- Mating connector for HE-TRWH03
- 3-pin female
- Two PL-3 female connectors per harness



**HE-TRWH05**

**2** SWITCH M/L OUTLET ADAPTER

**NEW!**



# BULK FLANGES & GROMMETS

**HE-TRM01**

**6** INCH OVAL SURFACE MOUNT

**10** PACK

NEW!

- 6" plastic flange

- Bulk 10 pack



**HE-TRM02**

**6** INCH OVAL GROMMET

**10** PACK

NEW!

- 6" rubber grommet

- Bulk 10 pack



**HE-TRM03**

**4** INCH ROUND SURFACE MOUNT

**10** PACK

NEW!

- 4" stainless steel flange

- Bulk 10 pack



**HE-TRM04**

**4** INCH ROUND GROMMET

**10** PACK

NEW!

- 4" rubber grommet

- Bulk 10 pack



**HE-TRM05**

**2.5** INCH ROUND GROMMET

**10** PACK

NEW!

- 2.5" rubber grommet

- Bulk 10 pack



**HE-TRM06**

**2** INCH ROUND GROMMET

**10** PACK

NEW!

- 2" rubber grommet

- Bulk 10 pack



**HE-TRM07**

**0.75** INCH ROUND STAINLESS FLANGE

**10** PACK

NEW!

- .75" stainless steel flange

- Bulk 10 pack



**HE-TRM08**

**0.75** INCH ROUND GROMMET

**10** PACK

NEW!

- .75" rubber grommet

- Bulk 10 pack



# FLANGES & GROMMETS

## HE-TRM101 6 INCH OVAL SURFACE MOUNT

NEW!

- 6" plastic flange
- Single pack



## HE-TRM102 6 INCH OVAL GROMMET

NEW!

- 6" rubber grommet
- Single pack



## HE-TRM103 4 INCH ROUND SURFACE MOUNT

NEW!

- 4" stainless steel flange
- Single pack



## HE-TRM104 4 INCH ROUND GROMMET

NEW!

- 4" rubber grommet
- Single pack



## HE-TRM105 2.5 INCH ROUND GROMMET

NEW!

- 2.5" rubber grommet
- Single pack



## HE-TRM106 2 INCH ROUND GROMMET

NEW!

- 2" rubber grommet
- Single pack



## HE-TRM107 0.75 INCH ROUND STAINLESS FLANGE

NEW!

- .75" stainless steel flange
- Single pack



## HE-TRM108 0.75 INCH ROUND GROMMET

NEW!

- .75" rubber grommet
- Single pack

# BRAKE LIGHT FLASHERS

## IBLEDBLF STROBE FLASH CONTROLLER FOR LED BRAKE LIGHT

EA

- For use with LED third brake lights
- Flashes third brake light for greater visibility



## IBBLF BRAKE LIGHT FLASHER

EA

- For use with non-LED third brake lights
- Flashes third brake light for greater visibility

# LED LIGHTBARS

# COMMON FEATURES

## DL-DR8 8 INCH LED LIGHT BAR

NEW!

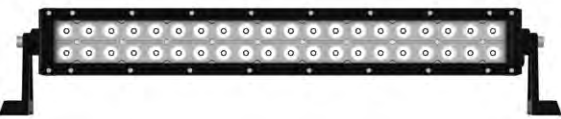
- Wattage: 36W
- Raw lumens: 2160LM
- Current consumption @ 13.8V: 2.6A
- IP rating: IP67



## DL-DR22 22 INCH LED LIGHT BAR

NEW!

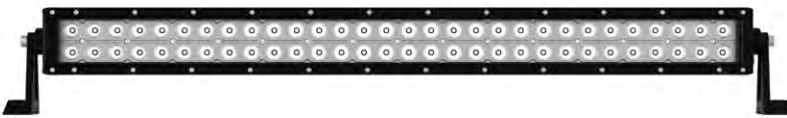
- Wattage: 120W
- Raw Lumens: 7200LM
- Current Consumption @ 13.8V: 8.7A
- IP rating: IP67



## DL-DR32 32 INCH LED LIGHT BAR

NEW!

- Wattage: 180W
- Raw lumens: 10800LM
- Current consumption @ 13.8V: 13.1A
- IP rating: IP67



## DL-CL1 4 INCH PAIR LED CUBE LIGHTS

NEW!

- Wattage: 36W
- Raw lumens: 2160LM
- Current consumption @ 13.8V: 2.6A
- IP rating: IP67



# LIGHTBAR BRACKETS

## MPS-B01 8 INCH UNIVERSAL LIGHTBAR BRACKET

## MPS-B02 22 INCH UNIVERSAL LIGHTBAR BRACKET

## MPS-B03 32 INCH UNIVERSAL LIGHTBAR BRACKET



**INPUT VOLTAGE:** 10-30V DC

**COLOR TEMPERATURE:** 6000K

**BEAM PATTERN:** COMBO: FLOOD (90) & SPOT (8)

**HOUSING MATERIAL:** DIE-CAST ALUMINUM

**COLOR:** BLACK

**MEMBRANE:** MILITARY BREATHER

**LENS MATERIAL:** POLYCARBONATE

**ELECTRONICS:** INTEGRATED-EPOXY ENCAPSULATED

**HARDWARE:** ALUMINUM

**OPERATING TEMPERATURE:** -40°C TO +60°C

**PROTECTION:** REVERSE POLARITY



**HE-WL3** **4.75** INCH DIAGONAL WORK LIGHT **9** LED

**Wattage:** 90W • **Raw Lumens:** 7200 • **Lux @ 10M:** 35 • **Beam Pattern:** 90° Flood  
**Current Consumption @ 13.8V:** 4.6A

• Modular design allows multiple lights to be connected together to form one long light  
 4.75"W x 6"H x 4.50"D

**HE-WL1** **3.625x2** INCH RECTANGLE WORK LIGHT **33** LED

**Wattage:** 60W • **Raw Lumens:** 726 • **Lux @ 10M:** .1 • **Beam Pattern:** 120° Flood  
**Current Consumption @ 13.8V:** .3 A • **Lens Design:** Unique Waffle



3.75"W x 3"H x .75"D



**HE-WL2** **3.625x1.75** INCH DUAL WORK LIGHT **2** LED

**Wattage:** 10W • **Raw Lumens:** 800 • **Lux @ 10M:** 28 • **Beam Pattern:** 90° Flood  
**Current Consumption @ 13.8V:** .4 A

3.50"W x 2.50"H x 2.50"D

## COMMON FEATURES

**INPUT VOLTAGE:** 10-30V DC

**COLOR TEMPERATURE:** 6000K

**HOUSING MATERIAL:** DIE-CAST ALUMINUM

**COLOR:** BLACK

**LENS MATERIAL:** PC

**MOUNTING BRACKET:** DIE-CAST ALUMINUM

**HOLE DIMENSIONS:** MOUNTING BOLT DRILL - .25"

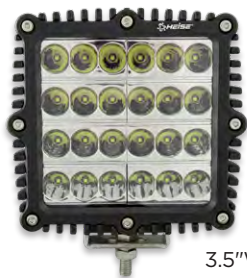
**ELECTRONICS:** INTEGRATED-EPOXY ENCAPSULATED

**HARDWARE:** STAINLESS 316

**IP RATING:** IP67

**PROTECTION:** REVERSE POLARITY

## SQUARE DRIVING LED LIGHTS



3.5"W x 3.75"H x 2.375"D

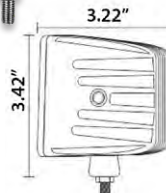
**HE-DL8** **5.5** INCH **24** LED

**Wattage:** 72W • **Raw Lumens:** 5760  
**Lux @ 10M:** 500 • **Beam Pattern:** 20° Spot  
**Current Consumption @ 13.8V:** 3.2 A  
**Mounting Bracket:** 304L with Stainless Steel Hardware  
**Operating Temperature:** -49°F to 185° F

## LICENSE PLATE MOUNT

**HE-FLPUS**

- Designed for front or rear license plate
- Mounts a cube, work or driving light



**HE-CL2S2PK** **3** INCH **4** LED

**Wattage:** 12W • **Raw Lumens:** 960  
**Lux @ 10M:** 205 • **IP Rating:** IP68  
**Beam Pattern:** 5° Spot  
**Current Consumption @ 13.8V:** .9 A

*Heise HE-DLWH1 dual light wiring harness included*

**2 LIGHT PACK**





# MONITORS & CAMERAS



## TE-7VS-4 7 INCH MONITOR WITH QUAD CAMERA INPUT

- 7" color LCD display
- Heavy-duty tilting bracket mount
- Display 1 to 4 cameras simultaneously
- Multiple display layouts
- 4-pin DIN camera input connectors
- Compatible with TE-WTR wireless camera kit
- Includes remote



## TE-4WCM 7 INCH WIRELESS MONITOR WITH QUAD OUTPUT

- 7" color LCD screen
- Built-in 2.4Ghz WiFi system for linking with wireless cameras (sold separately)
- Pairs with up to 4 wireless cameras
- 137m / 450ft unobstructed wireless range
- Display 1 to 4 cameras simultaneously
- Activation trigger for reverse (backup) cam
- 4 channel DVR recording capability
- Max. 128gb microSD card



## TE-CCWRM COMMERCIAL WIRELESS PORTABLE CAMERA

- 2.4Ghz wireless camera, 394ft range
- Built-in, strong magnetic base
- Built-in rechargeable lithium battery
- 12 hours of run time (in daylight)
- Overcharge protection
- 0 lux
- 120° of diagonal view
- FITS: UNIVERSAL



## TE-WPC-M HEAVY DUTY WIRELESS CAMERA + NIGHT VISION

- High quality metal housing
- Built-in microphone
- 1/3" CMOS camera
- 0 lux night vision / 12 IR LEDs
- 3dB antenna with 120m unobstructed range



**HE-TR1501**

PG 2



**HE-TR6004**

PG 3



**HE-TRRF02**

PG 5



# QUICK DISCONNECT CABLES

## TE-TCEX-1

### DUAL CAMERA QUICK DISCONNECT CABLE

NEW!

- 3.5ft trailer coil cable & 1.5ft 2 camera connection
- 32ft extension cable with quick disconnect
- Stainless steel quick disconnects
- Water resistant seals
- Used for trailer hitches
- Allows for 2 camera connections - 1 audio and video and 1 video only
- 4-pin DIN connections for cameras



## TE-TRBRKT

### PAIR OF TRAILER QUICK DISCONNECT BRACKETS

NEW!

- Mounting bracket for quick disconnects
- Open slot for easy running of cable
- Includes 2 brackets
- Heavy-duty metal



## TE-CTR3

### 3 METER COILED CONNECTOR TRAILER CABLE

- Cable for commercial cameras
- Coiled cable to adjust for different trailer tongue lengths
- 3m / 9.8ft in length
- 4-pin DIN connectors



# CAMERAS & CABLES



## TE-CCM HEAVY-DUTY NIGHT VISION CAMERA + MICROPHONE

- High quality metal housing
- Built-in microphone
- 0 lux night vision / 18 IR LEDs
- Extension cable not included



## TE-CCS HEAVY-DUTY NIGHT VISION SIDE-VIEW CAMERA

- High quality metal housing
- 0 lux night vision / 18 IR LEDs
- Extension cable not included



## TE-HEX10 HD 4-PIN DIN EXTENSION CABLE

- HD extension cable for HD commercial cameras
- 4-pin DIN connectors
- 10m / 32.8ft
- Can be used in place of TE-CEX10



## TE-HEX20 HD 4-PIN DIN EXTENSION CABLE

- HD extension cable for HD commercial cameras
- 4-pin DIN connectors
- 20m / 65.6ft
- Can be used in place of TE-CEX20



# TRAILER WIRING

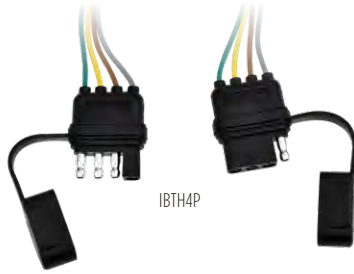


## TRAILER CONNECTORS

BLACK PVC HOUSING WITH COPPER INTERNALS

### ALL COPPER HOOK-UP WIRE

IBTH12	12GA 2 PIN/2 PIN RED/BLACK	EA/1FT	IBT-E01	6 PIN ROUND/4 WAY FLAT	EA	IBT-E05	7 WAY BLADE TO TRAILER END	EA
IBTH16	16GA 2 PIN/2 PIN RED/BLACK	EA/1FT	IBT-E02	7 PIN ROUND/6 WAY ROUND	EA	IBT-E06	7 WAY BLADE TO VEHICLE END	EA
IBTH18	18GA 2 PIN/2 PIN RED/BLACK	EA/1FT	IBT-E03	7 WAY BLADE/4 WAY FLAT	EA	IBT-E07	7 BLADE 12V LED TESTER	EA
			IBT-E04	7 WAY BLADE/5 WAY FLAT	EA	IBT-E08	MOUNTING BRACKET	EA



## ALL COPPER TRAILER WIRING PLUGS

Connectors that allow the basic hookup of the three lighting functions (running, turn and brake lights) plus one pin is provided for a ground wire (IBTH4P). One pin is available to provide support for another function (IBTH5P).

IBTH4P	4-WAY 18GA	5PK
IBTH5P	5-WAY 18GA	5PK



## ALL COPPER TRAILER HARNESS

**IBTH8P72** 12GA, 16GA, 8 PIN 72" **5PK**

For custom harness applications:  
12Ga = RD, WT, BK  
16Ga = YL, BN, GN, BL, GY

## ALL COPPER TRAILER WIRE

Wire recommended for RV, boats and utility trailers.


### 3 CONDUCTOR TRAILER WIRE

TWBGY14100	14GA BRN/GRN/YEL	100FT SPL	
TWBGY16100	16GA BRN/GRN/YEL	100FT SPL	
TWBGY18100	18GA BRN/GRN/YEL	100FT SPL	

### 4 CONDUCTOR TRAILER WIRE

TWBGYW14100	14GA BRN/GRN/YEL/WHT	100FT SPL	
TWBGYW16100	16GA BRN/GRN/YEL/WHT	100FT SPL	
TWBGYW18100	18GA BRN/GRN/YEL/WHT	100FT SPL	

### 2 CONDUCTOR TRAILER WIRE

TWBKRD14100	14GA BLACK/RED	100FT SPL	
TWBKRD16100	16GA BLACK/RED	100FT SPL	
TWBKRD18100	18GA BLACK/RED	100FT SPL	

## BULK TRAILER WIRE COLORS

GPT is designed for electrical usage in fleet vehicles. PVC coated high temp rated.

US18500R	18GA US GPT WIRE RED	EA/500FT
US18500BL	18GA US GPT WIRE BLUE	EA/500FT
US18500BR	18GA US GPT WIRE BROWN	EA/500FT
US18500GR	18GA US GPT WIRE GREEN	EA/500FT
US18500OR	18GA US GPT WIRE ORANGE	EA/500FT
US18500PL	18GA US GPT WIRE PURPLE	EA/500FT
US18500WT	18GA US GPT WIRE WHITE	EA/500FT
US18500YL	18GA US GPT WIRE YEL	EA/500FT

## ALL COPPER JACKETED PRIMARY WIRE

Wire recommended for auto/truck/construction and light marine. Heavy duty PVC outer jacket is abrasion resistant and protects against moisture, oil, acid, and salt.


### 2 CONDUCTOR

JPWBW8100	8GA BLACK/WHITE	EA/100FT
JPWBW10100	10GA BLACK/WHITE	EA/100FT
JPWBW12100	12GA BLACK/WHITE	EA/100FT
JPWBW14100	14GA BLACK/WHITE	EA/100FT
JPWBW16100	16GA BLACK/WHITE	EA/100FT


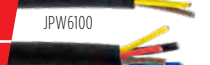
### 3 CONDUCTOR

JPWBGW10100	10GA BLK/GRN/WHT	EA/100FT	
JPWBGW12100	12GA BLK/GRN/WHT	EA/100FT	
JPWBGW14100	14GA BLK/GRN/WHT	EA/100FT	
JPWBGW16100	16GA BLK/GRN/WH	EA/100FT	

### 4 CONDUCTOR

JPWBGRW10100	10GA BLK/GRN/RED/WHT	EA/100FT	
JPWBGRW12100	12GA BLK/GRN/RED/WHT	EA/100FT	
JPWBGRW14100	14GA BLK/GRN/RED/WHT	EA/100FT	
JPWBGRW16100	16GA BLK/GRN/RED/WHT	EA/100FT	

## COPPER JACKETED PRIMARY WIRE

JPW6100	6 X 14GA	100FT SPL	
JPW7100	4 X 14GA, 3 X 12GA	100FT SPL	

# MAINTENANCE PRODUCTS



## DIELECTRIC GREASE

IB05113 DI-ELECTRIC GREASE 3.3 OZ EACH

## HEAT SHRINK TERMINAL KIT

• Assorted heat shrink butts, push ons, rings, and spades

IBK-HS120 CONNECTOR KIT - 120 PIECE (HEAT SHRINK) EACH



# BUTT CONNECTORS

## HEAT SHRINK

HSYBCM	YELLOW 24/26 HS BUTT	100/BAG
HSRBC	RED 22/18 HS BUTT	100/BAG
HSBBC	BLUE 16/14 HS BUTT	100/BAG
HSYBC	YELLOW 12/10 HS BUTT	50/BAG
HSRBC8	RED 8 GA HS BUTT	25/BAG



HSRBC



HSBBC



HSYBC



SHSBBC



SHSRBC

## HEAT SHRINK WITH SOLDER

SHSBBC	HS BLUE BUTT CONN W/SOLDER 16/14 GA	10 PK
SHSRBC	HS RED BUTT CONNECTOR W/SOLDER 22/18 GA	10 PK
SHSWBC	HS WHITE BUTT CONNECTOR W/SOLDER 26/24 GA	10 PK
SHSYBC	HS YELLOW BUTT CONNECTOR W/SOLDER 12/10 GA	10 PK

# RING TERMINALS



HSRRT10



HSBRT10



HSYRT16

## HEAT SHRINK RING TERMINALS

HSRRT8	RED 22/18 #8 HS RING	100/BAG	HSBRT8	BLUE 16/14 #8 HS RING	100/BAG	HSYRT8	YELLOW 12/10 #8 HS RING	50/BAG
HSRRT10	RED 22/18 #10 HS RING	100/BAG	HSBRT10	BLUE 16/14 #10 HS RING	100/BAG	HSYRT10	YELLOW 12/10 #10 HS RING	50/BAG
HSRRT14	RED 22/18 1/4" HS RING	100/BAG	HSBRT14	BLUE 16/14 1/4" HS RING	100/BAG	HSYRT14	YELLOW 12/10 1/4" HS RING	50/BAG
HSRRT516	RED 22/18 5/16" HS RING	100/BAG	HSBRT516	BLUE 16/14 5/16" HS RING	100/BAG	HSYRT516	YELLOW 12/10 5/16" HS RING	50/BAG
HSRRT38	RED 22/18 3/8" HS RING	100/BAG	HSBRT38	BLUE 16/14 3/8" HS RING	100/BAG	HSYRT38	YELLOW 12/10 3/8" HS RING	50/BAG
						HSYRT12	YELLOW 12/10 1/2" HS RING	50/BAG

# SPADE TERMINALS



HSBVLST6



HSBVST8

## HEAT SHRINK SPADE TERMINALS

HSBVLST6	BLUE 16/14 HS #6 SNAP SPADE	100/BAG
HSBVST8	BLUE 16/14 HS #8 SPADE	100/BAG
HSBVST10	BLUE 16/14 HS #10 SPADE	100/BAG
HSRVST8	RED 22/18 HS #8 SPADE	100/BAG
HSRVST10	RED 22/18 HS #10 SPADE	100/BAG

# BULLET CONNECTORS



HSRMB



HSBFB

## HEAT SHRINK MALE & FEMALE

HSRMB	RED 22/18 HS MALE BULLET .187	100/BAG
HSBMB	BLUE 16/14 HS MALE BULLET .157	100/BAG
HSRFB	RED 22/18 HS FEMALE BULLET .187	100/BAG
HSBFB	BLUE 16/14 HS FEMALE BULLET .157	100/BAG



HSFYD



HSBMFI



HSRMD

## HEAT SHRINK FEMALE

FI=FULLY INSULATED

HSRFFI	RED 22/10 .250 HS FEMALE FI QD	100/BAG
HSBFFI	BLUE 16/14 .250 HS FEMALE FI QD	100/BAG
HSYFFI	YELLOW 12/10 .250 HS FEMALE FI QD	50/BAG
HSRFD	RED 22/18 .250 HS F QD	100/BAG
HSFBD	BLUE 16/14 .250 HS F QD	100/BAG
HSFYD	YELLOW 12/10 .250 HS F QD	50/BAG

## HEAT SHRINK MALE

FI=FULLY INSULATED

HSRMFI	RED 22/10 .250 HS MALE FI QD	100/BAG
HSBMFI	BLUE 16/14 .250 HS MALE FI QD	100/BAG
HSYMF1	YELLOW 12/10 .250 HS MALE FI QD	50/BAG
HSRMD	RED 22/18 .250 HS M QD	100/BAG
HSMBD	BLUE 16/14 .250 HS M QD	100/BAG
HSMYD	YELLOW 12/10 .250 HS M QD	50/BAG



RG38



RG12

## RUBBER GROMMETS

RG18	RUBBER GROMMETS 1/8" ID	100/BAG
RG316	RUBBER GROMMETS 3/16" ID	100/BAG
RG14	RUBBER GROMMETS 1/4" ID	100/BAG
RG516	RUBBER GROMMETS 5/16" ID	100/BAG
RG38	RUBBER GROMMETS 3/8" ID	100/BAG
RG12	RUBBER GROMMETS 1/2" ID	100/BAG

## GROMMETS

### LONG BARREL GROMMETS

LSB8	8 GAUGE LONG BARREL GROMMET .26" ID	25/BAG
LSB4	4 GAUGE LONG BARREL GROMMET .40" ID	25/BAG
LSB1	1/0 GAUGE LONG BARREL GROMMET .63" ID	25/BAG



LSB8



LSB4



LSB1



## 3M ELECTRICAL TAPE

SUPER33-10

SUPER 33+ ELECTRICAL TAPE 3/4" X 52'

10 PK

## EXTERIOR HARNESSING TAPE

IB51026

tesa 3/8" X 25M EXTERIOR HARNESS TAPE

16/SLV

IB51036

tesa OEM HARNESSING TAPE EXTERIOR 3/4" X 82'

16/SLV

## TAPE



tesa

# CABLE TUBING / CLAMPS / MOUNTS / TIES



## WIRE LOOM INSTALL TOOL

SLT-08	WIRE LOOM INSTALL TOOL - 1/4 - 7/16 INCH	EACH
SLT-15	WIRE LOOM INSTALL TOOL - 1/2 - 5/8 INCH	EACH



BCC12

BCC14

## CABLE CLAMPS

BCC18	CABLE CLAMPS 1/8" BLACK	100/BAG
BCC316	CABLE CLAMPS 3/16" BLACK	100/BAG
BCC14	CABLE CLAMPS 1/4" BLACK	100/BAG
BCC516	CABLE CLAMPS 5/16" BLACK	100/BAG
BCC38	CABLE CLAMPS 3/8" BLACK	100/BAG
BCC12	CABLE CLAMPS 1/2" BLACK	100/BAG
BCC34	CABLE CLAMPS 3/4" BLACK	100/BAG
BCC1	CABLE CLAMPS 1" BLACK	100/BAG

## SPLIT LOOM TUBING - BLACK

Polyethylene 200 degree LOOM dispenser boxed with Metra label

SLT145	SPLIT LOOM TUBING 200 DEG 1/4" DISPENSER BOXED	EACH
SLT385	SPLIT LOOM TUBING 200 DEG 3/8" DISPENSER BOXED	EACH
SLT122	SPLIT LOOM TUBING 200 DEG 1/2" DISPENSER BOXED	EACH
SLT1	SPLIT LOOM TUBING 200 DEG 1" DISPENSER BOXED	EACH



SLT1

## MOUNTING HOLE CABLE TIES

BMCT6	6" SCREW MOUNT BLACK - 40 LB.	100/BAG
BMCT7	7.5" SCREW MOUNT BLACK - 50 LB.	100/BAG
BMCT11	11" SCREW MOUNT BLACK - 50 LB.	100/BAG



## BLACK CABLE TIES

BCT4-1	4" BLACK CABLE TIES - 18 LB.	1000/BAG
BCT6-1	6" BLACK CABLE TIES - 30 LB.	1000/BAG
BCT8-1	8" BLACK CABLE TIES - 40 LB.	1000/BAG
BCT18	18" BLACK CABLE TIES - 50 LB.	100/BAG



BCT4

## STORAGE CONTAINER

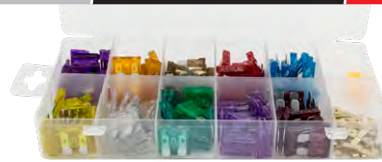
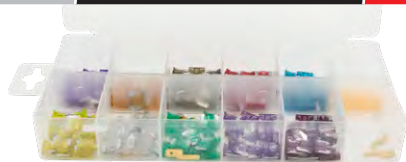
IB12STORAGE	12 SLOT STORAGE CONTAINER	EACH
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# FUSE & HEAT SHRINK KITS

## FUSE BULK KITS

IBATMLPKIT	ATMLP FUSE KIT / ASSORTED AMLP FUSES IN RETAIL STORAGE KIT	EACH	IBATCKIT	ATC FUSE ASSORTED / ATC FUSES IN RETAIL STORAGE KIT	EACH	IBATMKIT	ATC FUSE ASSORTED / ATM FUSES IN RETAIL STORAGE KIT	EACH
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## HEAT SHRINK TUBING KIT

3MHSKIT	HEAT SHRINK KIT	EACH
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# CLIPS & SCREWS

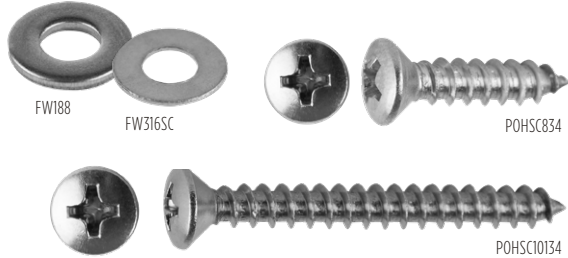
## STAINLESS

FW188	#10 18-8 S.S. FLAT WASHER	10/BAG
FW316S	#10 316 S.S. FLAT WASHER	10/BAG
NTSC1024	#10-24 18-8 S.S. HX NYLON INSERT	100/BAG
POHSC10134	#10 X 1-3/4 18-8 S.S. PHIL OVAL	100/BAG
POHSC102	#10 X 2 18-8 S.S. PHIL OVAL	100/BAG
POHSC834	#8 X 3/4 18-8 S.S. PH OVAL	100/BAG
PPHSC1024114	#10 X 24 1-1/4" PHIL PAN	100/BAG
PPHSC141	#14 X 1 18-8 S.S. PHIL PAN	100/BAG
PPHSS101	#10 X 1 18-8 S.S. PH PAN	100/BAG
PPHSS81	#8 X 1 18-8 S.S. PH PAN	100/BAG

## WIRE CLIPS

Screw Mount

IBCLIP8	8AWG WIRE CLIPS	4/BAG
IBCLIP10	10AWG WIRE CLIPS	4/BAG



# GROUNDING KIT + KIT RE-ORDER PARTS



## GROUNDING KIT

Contains enough parts for 50 grounds. Replacement parts can be purchased.

PZGGRKT	PROFESSIONAL HIGH CURRENT KIT	EACH
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## BRUSH TIP

PZGBRUSH	STAINLESS STEEL WIRES CUT DOWN TO BARE METAL QUICKLY	EACH
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## CUTTING BOLTS

PZGBOLT	ZINC ANODIZED THREAD 5/16"	50/PK
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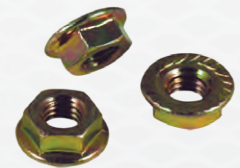
## HIGH SPEED DRILL BIT

PZGDRILL	135° SPLIT POINT AND SHOULDER TIP	EACH
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## LOCK WASHERS

PZGLWS	INTERNAL/EXTERNAL ANODIZED	50/PK
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## LOCK NUTS

PZGLNUT	ANODIZED FLANGED SERRATED	50/PK
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## NUT DRIVER

PZGDRIVER	MAGNETIZED NUT SETTER 5/16" BOLT 1/2" DRIVER	EACH
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## ELECTRICAL GEL

PZGGEL	ANTI-CORROSION ELECTRICAL CONNECTION GEL	EACH
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## SAFETY GLASSES

PZGLASSES	CLEAR SAFETY GLASSES	EACH
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# SOLDER & WORKLIGHTS



IBPS100K



## SOLDER KIT

IBP2KC	WELLER PROFESSIONAL SELF-IGNITING CORDLESS BUTANE	EACH
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A lightweight, compact cordless butane soldering and hot air tool. Fast heat-up for high productivity, melts solder in less than 40 seconds. 25-75 watts.

## SOLDERING IRON KIT

IBPS100K	WELLER SUPER PRO SELF-IGNITING BUTANE SOLDERING IRON KIT	EACH
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Professional quality, features "auto switch" safety shut-off and iron plated tip. Provides up to 125 watts of power.

PT1	.031 SINGLE FLAT TIP (FOR USE WITH THE IBP2KC)	EACH
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PPT2	.094 SINGLE FLAT TIP (FOR USE WITH THE IBP2KC)	EACH
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PPT5	.031 DOUBLE FLAT TIP (FOR USE WITH THE IBP2KC)	EACH
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PPT6	.094 DOUBLE FLAT TIP (FOR USE WITH THE IBP2KC)	EACH
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## SOLDER

SDR1	.040 ROSEN CORE SOLDER 1 LB SPOOL 60/40 KESTER	EACH
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SDR14	.062 ROSEN CORE SOLDER .25 LB SPOOL 60/40	EACH
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ESDR-1	.040 ROSEN CORE SOLDER 1LB SPOOL 60/40 ECONOMY	EACH
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ASDR1	1LB .062 ALUMINUM SOLDER	EACH
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GFLUX2	2 OZ. GOLDEN FLUX FOR ASDR1 ONLY	EACH
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SDR1

## SOLDERING STATION

IBWLC100	WELLER 40 WATT	EACH
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Variable power control produces 5-40 watts. Quality, lightweight pencil iron, natural sponge tip cleaning pad. Includes ST3 iron plated copper tip.

IBST3	.125" REPLACEMENT TIP	EACH
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## WORKLIGHTS

SL864	60 LED W/50FT 18/2 CORD REEL	EACH
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The Bayco Hanging Worklight on 50ft. retractable reel is 60 LEDs on the body of a hanging worklight, giving you the ability to keep working longer. 60 LED floodlight creates 120 lumens. Dual-position magnet hook hangs horizontally and vertically.

SL2125	60 LED W/25FT 18/2 CORD	EACH
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SLR2166	66 LED RECHARGEABLE SPOT WITH MAG HOOK	EACH
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SL2125



SL864



SLR2166

# KNIFE CUTTING & SCISSORS & SCRAPER



## UTILITY KNIFE

**OLFBNL** RATCHET LOCK, 18MM CUTTER **EACH**

Heavy-duty cutter features a comfortably contoured ABS plastic handle with a ratchet wheel blade locking mechanism. Includes LB Blade.

**OLFLB10B** 18MM, 8 SEGMENTS PER STRIP **10/PK**

Replacement blade for OLFBNL

**OLFLFB** 18MM, SNAP-OFF SPEED BLADE **10/PK**

Features a special enhanced coating. Blade cuts faster and resists build-up. Excellent for cutting tough materials like thick corrugated, Gator Board, Corplast, wallboard, rubber and more.



## SLIDE LOCK UTILITY KNIFE

**OLFAA1** SLIDE LOCK UTILITY KNIFE **EACH**

9mm cutter features an ABS non-slip handle with a full length stainless steel blade channel. Auto-locking blade slider has micro, 26 blade stop positions. Includes a pocket-clip/blade snapper which firmly attaches to the cutter.

**OLFAB10B** 9MM, 13 SEGMENTS PER STRIP **10/PK**

Replacement blade for OLFAA1

**OLFAB50B** 9MM, 13 SEGMENTS PER STRIP **50/PK**

Replacement blade for OLFAA1



## TOP SHEET CUTTER

**OLFTS1** TOP SHEET CUTTER **EACH**

Its unique design lets you cut the top layer while preserving those below. Can use it on cardstock, thin films, plastic sheeting, tape and more.

**OLFTSB1** TOP SHEET CUTTER BLADE **5/PK**

Replacement blade for OLFTS1



## ECONOMY CUTTER

**114-58** KNIFE 13PT SNAP BLADE **EACH**

**114-62** REPLACEMENT BLADES **10/PK**



## SNAP-OFF GRAPHICS KNIFE

**OLFSAC1** STAINLESS STEEL SNAP-OFF GRAPHICS KNIFE WITH 30 DEGREE ANGLE **EACH**

The acute 30° angle easily cuts cardboard, plastics, Coroplast™, foam board, Gator Board and more. It features an auto-lock. Pocket clip/blade snapper for convenience.

**OLFA1160B** 9MM, 7 SEGMENTS PER STRIP **10/PK**

Replacement blade for OLFSAC1



## CUSHION GRIP KNIFE

**OLFAK4** INCLUDES 2 PRECISION ART BLADES **EACH**

This versatile knife features an acetone resistant, anti-slip cushion grip handle. The bottom is weighted slightly for better balance and stability in cutting. The anti-roll device offers safety and its quick spin, easy blade change.

**OLFKB4S** #11 PRECISION BLADE **5/PK**

Replacement blade for OLFAK4.



## STANDARD DUTY CUTTER

**OLPAZ** CUTTER **EACH**

Rubber grip insert, positive side lock

**OL9281** ABS STAINLESS BLADES **10/PK**

**OL9282** ABS STAINLESS BLADES **50/PK**

## RAZOR BLADES

**IBBLADE** SINGLE EDGE STEEL-BACK #12 **100/PK**



## DISPENSER PACK

**120-01** UTILITY REPLACEMENT BLADES **100/PK**



## STAINLESS STEEL KNIFE

**OLFA** KNIFE **EACH**

Auto locking blade, stainless steel handle and built-in safety blade stripper

**OL9281** ABS STAINLESS BLADES **10/PK**

**OL9282** ABS STAINLESS BLADES **50/PK**



## ART KNIFE

**OLFAK5** ART KNIFE/WEEDING PICK **EACH**

30 included



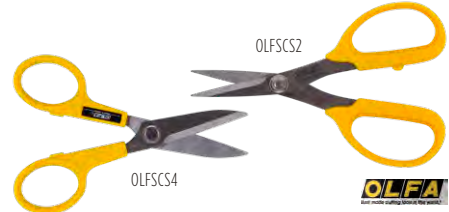
## MULTI-PURPOSE SCRAPER

**OLFSCRL** 2 1/3" **EACH**

Handy scraper features high-quality 2 1/3" stainless steel blades and strong, acetone resistant handles. Stainless steel blades offer better protection against rusting for longer use.

**OLGSB-1S** MULTI-GRIP 4-3/4" **EACH**

**OLFSCRL** REPLACEMENT BLADE FOR OLGSB-1S **EACH**



## EDGE SCISSORS

**OLFSCS2** 7" STAINLESS STEEL, SERRATED **EACH**

These heavy-duty scissors easily cut the toughest industrial materials, including polymers, wire, Kevlar®, vinyl, rubber, fabric, aircraft composites and other materials.

**OLFSCS4** 5" PRECISION, SMOOTH **EACH**

These precision scissors are ideal for fine, intricate cutting on graphics, vinyl, film, leather, Kevlar™ cloth, polystyrene and more. Industrial strength Blades are made of stainless steel and fully extend into the handle.

# HAND TOOLS



## DOOR PANEL REMOVER

IB35350

EACH

Removes door panel fasteners even in tight spaces. The bent handle design allows use where space is limited and provides extra prying force.

## DOOR UPHOLSTERY REMOVER

IB35400

EACH

For plastic fasteners. Rugged tool with a large, comfortable handle.



## CRIMPING/CUTTING TOOL

IB1005

JOURNEYMAN

EACH

Soft handle material on outer surface and hard, black material on inner surface for comfort & durability. Use for insulated and uninsulated terminals & connectors. Accommodates wire from 10-22 awg, wire cutter in nose.



## CRIMPING/CUTTING TOOL

IB1006

NON-INSULATED TERMINALS CONNECTORS 10-22 AWG

EACH

Three different cutting blades; anvil, copper, curved and steel. Cleanly shears 6-32 & 8-32 screws.



## CRIMPING/CUTTING TOOL

IB1005

INSULATED AND NON-INSULATED TERMINALS AND CONNECTORS 10-22 AWG

EACH

Accommodates wire from no. 10 to 22 awg. Specially hardened wire cutter in nose. Tapered nose design for working in tight spaces.



## SCRIBE

IB31800

EACH

Ideal for marking most metal and softer materials.



## HAMMER CRIMPER

IBHDCHRMP

LARGE GAUGE

EACH



## CRIMPING TOOL

IB2006

6" AWG TO 4/0 COMPOUND

EACH

All-in-one integral crimp nest with no removable parts or rotating dies. Adjustable screw allows user to control crimp depth.

## "O" RING AND SEAL PICK

IB31840

EACH

Ideal for marking most metal and softer materials. Heat treated carbon steel point and surfaces.



## WIRE PULLER

MEG20

EACH

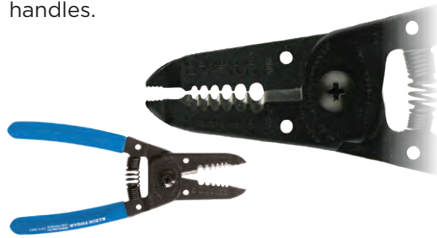
Helps pull and/or push cable and wire in any difficult area. Bullet shaped tip for penetrating rubber boots, grommets and wire loom wraps. 24" overall length.

# CUTTERS & WIRE STRIPPERS & CRIMPERS & SAW BLADES



**CABLE CUTTER**  
**IB63020** | **KURVE MULTI** | **EACH**

Three different cutting blades; anvil, copper, curved and steel. Cleanly shears 6-32 & 8-32 screws. Double-dipped comfort grips with curved handles.



**WIRE STRIPPER**  
**IB1011** | **MULTI PURPOSE** | **EACH**

Strips 10-20 awg wire, bend shapes, pulls and loops wire, coil springs.

## ECONOMY



**10" MULTI CRIMPER/CUTTER**  
**TMT10** | **EACH**

Patented 3-in-1 quality crimping tool designed for quick splice T-tap clipping, wire cutting and connector crimping.



**CABLE CUTTER**  
**TCT8** | **CUTS UP TO 4 GAUGE** | **EACH**



**WIRE STRIPPER**  
**IB1004** | **EACH**

Cuts, strips and loops 12-26 solid and stranded wire. Adjustable slide stop with set screw for repeat stripping work.



**DIAGONAL CUTTERS**  
**IBD275-5** | **MIDGET LIGHTWEIGHT** | **EACH**

5" Lightweight. Shears wire up to 14 awg with flush cutting action, compact head, steel hold-open spring, plastic-covered handles.



**8" T-TAP CRIMPER/CUTTER**  
**TTT08** | **EACH**

Patented 2-in-1 wire quick splice T-tap clipper and wire cutter. Hot forged and specially heat treated alloy for extra durability.



**5" STRIPPER AND CUTTER**  
**HW-9006** | **EACH**

5" made of carbon steel and hardened with black-oxide finish.



**WIRE STRIPPER CUTTER**  
**IB11045** | **EACH**

Strips 10-18 awg solid wire, easy to read wire gauge markings and coil spring.



**DIAGONAL CUTTERS**  
**IBD209-4** | **MIDGET POINTED NOSE (4")** | **EACH**

Sharp pointed nose for precise tip cutting and trimming printed circuit boards.



**CRIMPER**  
**HW-9013** | **EACH**

For stripping wires from 22-12 awg. Crimper made of carbon steel and hardened. Crimps red 22-18 awg, blue 16-14 awg, yellow 12-10 awg.



## AIR SAW BLADES

ABS24	24TPI 1/2"	EACH
ABS24-5	24TPI 1/2"	5/PK
ASB18-5	18TPI 1/2"	5/PK
ASB10-5	10TPI 1/2"	5/PK

Bi-metal blades bend and resist breaking. High speed steel teeth provide long-lasting cutting edge

# BITS & HAND TOOLS



## UNIBIT

IB59001	13 INCREMENTS FRACTIONAL: 1/8" - 1/2"	EACH
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Double fluted design eliminates skidding and makes for easier resharping. Also features laser etched hole sizes, anti-skid tip and drill points so there is no pilot hole needed. Works with most metals.

## UNIBIT

IB59003	9 INCREMENTS FRACTIONAL: 1/4" - 3/4"	EACH
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Double fluted design eliminates skidding and makes for easier resharping. Also features laser etched hole sizes, anti-skid tip and drill points so there is no pilot hole needed. Works with most metals.

## BIT SET

IB32526	32 PIECE STANDARD TIP BIT SET	EACH
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Durable PVC black block allows for easy storage of standard bits. Block slides over most screwdriver shafts for easy bit access and storage. Industrial strength, heat-treated steel bits for long-lasting use.

## SKEWDRIVER



## SKEWDRIVER



## SKEWDRIVER



## SKEWDRIVER PRO®

HW-9001	EACH
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The Skewdriver® is a bevel gear offset screwdriver that uses the rotary handle action of a regular screwdriver to access awkward and hard to reach places. The sturdy removable hollow handle allows use with any cord free 1/4" drill and acts as a handy storage for bits.

## SKEWDRIVER PRO® KIT

SPK4040	EACH
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The Skewdriver® Pro SPK4040 kit features an offset bit driver, a right-angle tool that's perfect for removing the screws that secure some dash speaker grilles, getting to screws in hard-to-reach trim pieces, or working in tight quarters anywhere in your car or home.

## BEVEL-GEAR DRIVER

P9801H	EACH
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Die cast Skewdriver® Pro offset bevel gear driver, with NEW SUPER GEARS, 3 times stronger than previous models, has stabilizer lock screw, ANSI impact ready input shaft, black chrome finish.

## SKEWDRIVER



## SKEWDRIVER



## OFFSET HI-SPEED HEAD

HD-105	HEAVY DUTY 105° OFFSET HI-SPEED HEAD	EACH
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Made for heavy-duty power units. Rated at more than 500 in/lbs of torque/2000rpm. Lets you get your power unit into tight spots with drills, spade drills, grinders, buffers, nuts and screws.

## GEAR DRIVER

RGS-5299	OFFSET GEAR DRIVER	EACH
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## WRENCH SET

PBS-1438	3/8" AND 1/4" WRENCH SET	EACH
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PBX 1400 Powerbox accessory with 7 piece English and Metric sockets.

# TESTERS & GENERATORS & PROBES & MULTIMETERS



**HANDY CIRCUIT TESTER**  
IB25600 EACH

Hooded probe protects your fingers and automatically centers the wires. Small size allows easy use even in the tightest places. Works up to 28 volts.



**CIRCUIT TESTER**  
IB27450 COMPUTER SAFE EACH

Safe for use on 12volt automotive computer circuits. Tool draws less than 21 M.A. at 12 volts D.C. With an operating range of 3-12 Volts.

- Red glow - positive
- Green glow - negative



**TEST LIGHT / CIRCUIT TESTER**  
3410 EACH

Ergonomic grip design with 6-foot test leads. Transparent handle shows bright LEDs to identify connections:  
Green = Ground Present  
Red = Voltage Present



**PISTOL & VOLT PROBE**  
76600 HI-VIS VOLTPRO CIRCUIT TESTER EACH

Indicates power and grounds. Test the circuit's ability to deliver current and identify loose, corroded or broken wires. Capture intermittent spikes or drops in voltage. Take voltage snapshots in any mode, any time.

- Dynamic voltage drop testing
- Power and ground LED indicators
- Min/max glitch capture
- Computer safe
- Voltage snapshot



**AUTO-RANGING DMM**  
3320 10 MegOhm/UL EACH

Auto-Ranging™ scales eliminate the need to dial in the correct range when making electronic measurements. 10 MegOhm input impedance for safe automotive and household uses. Large digital display. Single-setting resistance function for voltage (AC & DC). Color-coded LEDs display battery quick check. Includes attachable test leads, holders and stand.



**MANUAL MULTIMETERS**  
MM300 MANUAL RANGING EACH

- Measures up to 600V AC/DC voltage, 10A AC/DC current and 2Mff resistance
- Tests batteries, diodes and continuity
- CAT III 600V safety rating

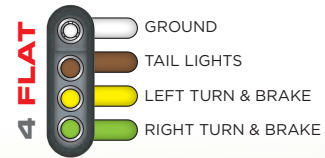
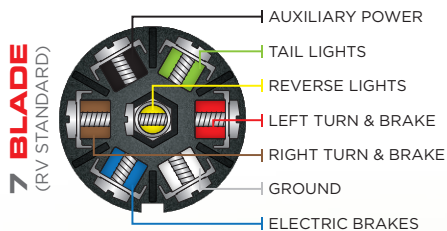
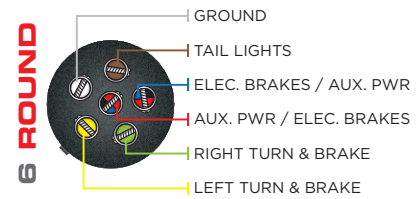
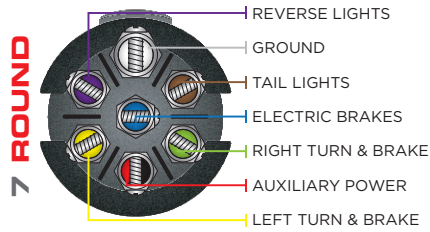
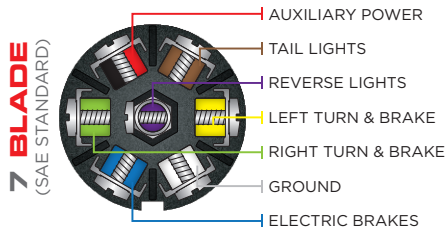


**AUTO MULTIMETERS**  
MM400 AUTO RANGING EACH

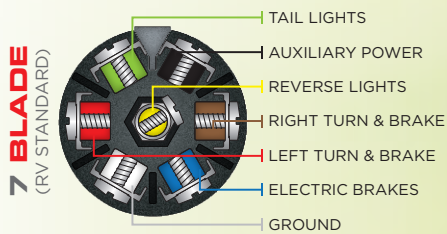
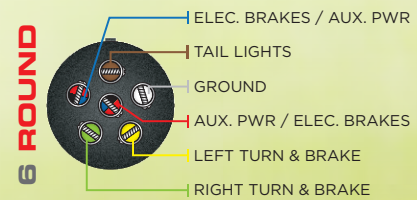
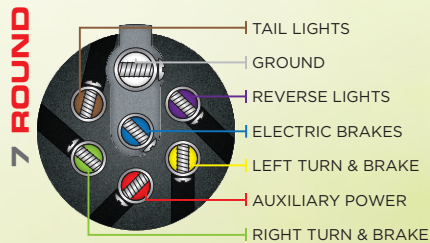
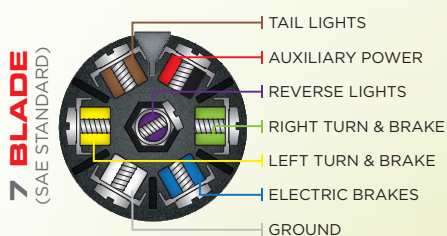
- Measures up to 600V AC/DC voltage, 10A AC/DC current and 40 Mff resistance
- Measures capacitance, temperature, frequency, duty-cycle, and test diodes and continuity
- CAT III 600V safety rating

# TRAILER WIRING REFERENCE GUIDE

## VEHICLE-SIDE CONNECTIONS



## TRAILER-SIDE CONNECTIONS





# TRAILER WIRING REFERENCE GUIDE

