HEISE®
TRAILER LIGHTING & ACCESSORIES

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.

HEISE QUALITY

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.
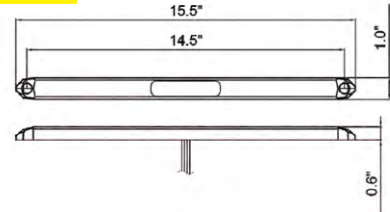
TRAILER LIGHT LED BAR

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

15.5"
14.5"
1.0"
0.6"

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

6.50"
1.17"
2.28"
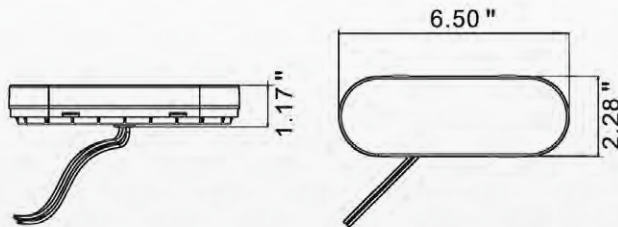
HE-TR6002 — **6** INCH OVAL TRAILER LED LIGHT W/ GROMMET — **14** LED — NEW!

- 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

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

6.50 "

1.17 "

2.28 "

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

4.31"
10" 1.2"

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

4.31"
10" 1.2"

OPTIONAL PARTS
FOR 4 INCH ROUND LED LIGHTS PG 11

HE-TRM103 Surface Mount
HE-TRM104 Rubber Grommet

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

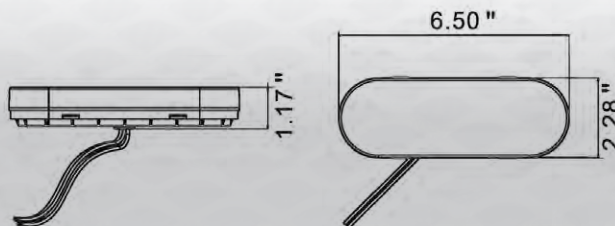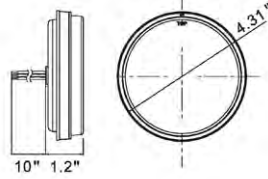- PL-3 connector
- PMMA lens and ABS housing
- @12VDC .06A for taillight

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

4.31"
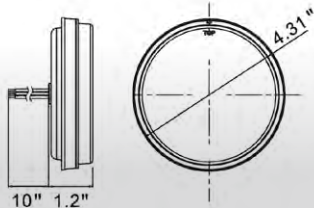10" 1.2"
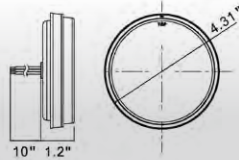
OPTIONAL PARTS
FOR 4 INCH ROUND LED LIGHTS PG.11

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

4.33"
3.9"
10.0" 0.61" 1.77"

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

2.5" 0.8" 1.0"
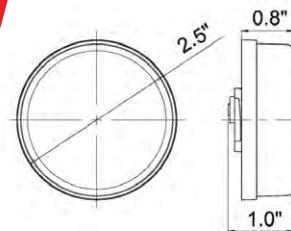
HE-TR2502 — 2.5 INCH ROUND MARKER / CLEARANCE LIGHT — 9 LED — NEW!

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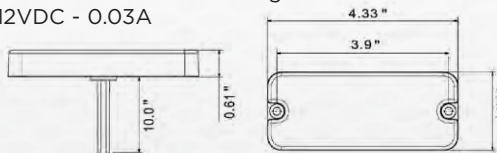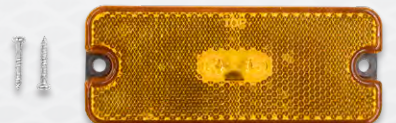- FMVSS P2 P3
- Grommets included
- PMMA lens and ABS housing
- @12VDC - 0.03A

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

2.0" 0.8" 1.0"
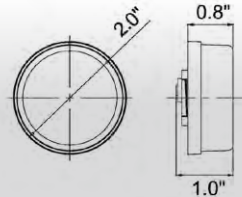
OPTIONAL PART
FOR 2 INCH ROUND MARKER / CLEARANCE LIGHTS PG 11
HE-TRM106 Rubber Grommet

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
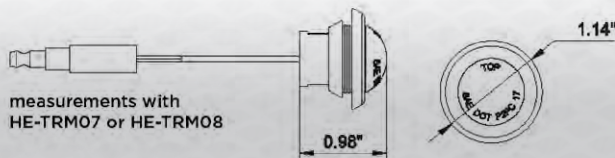
measurements with
HE-TRM07 or HE-TRM08

0.98" 1.14"

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
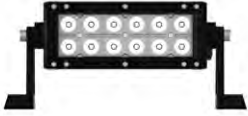
| **DL-DR22** | **22** INCH LED LIGHT BAR | NEW! |

- Wattage: 120W
- Raw Lumens: 7200LM
- Current Consumption @ 13.8V: 8.7A
- IP rating: IP67
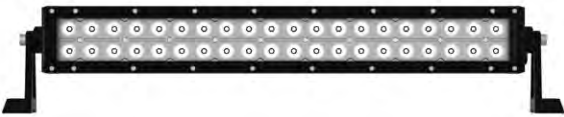
| **DL-DR32** | **32** INCH LED LIGHT BAR | NEW! |

- Wattage: 180W
- Raw lumens: 10800LM
- Current consumption @ 13.8V: 13.1A
- IP rating: IP67
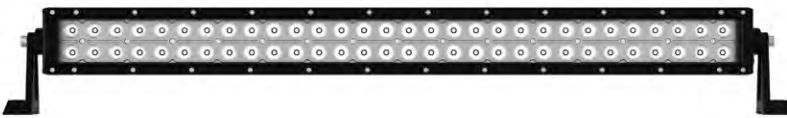
| **DL-CL1** | **4** INCH PAIR LED CUBE LIGHTS | NEW! |

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

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

LIGHTBAR BRACKETS

| **MPS-B01** | **8** INCH UNIVERSAL LIGHTBAR BRACKET |

| **MPS-B02** | **22** INCH UNIVERSAL LIGHTBAR BRACKET |

| **MPS-B03** | **32** INCH UNIVERSAL LIGHTBAR BRACKET |

HEISE TRAILER LIGHTING & ACCESSORIES   386.257.2956 • **Heise**LED.com

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

LICENSE PLATE MOUNT

HE-FLPUS

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

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

3.22″
3.42″
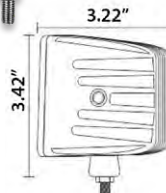
HE-CL2S2PK — 3 INCH — 4 LED

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

WIRELESS READY

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

WIRELESS

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

WIRELESS   **NIGHT VISION**

120° VIEWING ANGLE   **IP69K RATED**

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

WIRELESS   **SURFACE MOUNT**   **LARGE VEHICLE**   **IP69K RATED**

NIGHT VISION   **120° VIEWING ANGLE**   **BUILT-IN MIC**

HE-TR1501

HE-TR6004

HE-TRRF02

386.257.2956 • **Heise**LED.com

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

HEISE
TRAILER LIGHTING & ACCESSORIES

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

CONNECTION FROM CAMERA TO EXTENSION

| SURFACE MOUNT | LARGE VEHICLE | IP67 RATED | NIGHT VISION | 120° VIEWING ANGLE | REAR MOUNTING | BUILT-IN MIC |

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

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

CONNECTION FROM CAMERA TO EXTENSION

| SURFACE MOUNT | LARGE VEHICLE | IP69K RATED | NIGHT VISION | 120° VIEWING ANGLE | REAR MOUNTING |

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

HD

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

IBTH16

IBT-E01 IBT-E03 IBT-E05 IBT-E07

IBT-E02 IBT-E04 IBT-E06 IBT-E08

ALL COPPER HOOK-UP WIRE

IBTH12	12GA 2 PIN/2 PIN RED/BLACK	EA/1FT
IBTH16	16GA 2 PIN/2 PIN RED/BLACK	EA/1FT
IBTH18	18GA 2 PIN/2 PIN RED/BLACK	EA/1FT

TRAILER CONNECTORS

BLACK PVC HOUSING WITH COPPER INTERNALS

IBT-E01	6 PIN ROUND/4 WAY FLAT	EA	IBT-E05	7 WAY BLADE TO TRAILER END	EA
IBT-E02	7 PIN ROUND/6 WAY ROUND	EA	IBT-E06	7 WAY BLADE TO VEHICLE END	EA
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

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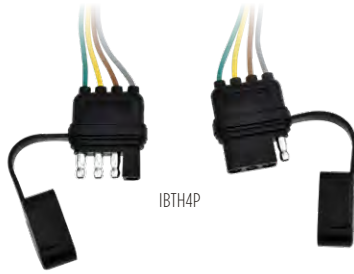
IBTH4P

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

TWBGY16100

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

TWBGYW16100

2 CONDUCTOR TRAILER WIRE

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

TWBKRD16100

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
US185000R	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

JPWBGW10100

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

JPWBGRW10100

COPPER JACKETED PRIMARY WIRE

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

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

SHSBBC

SHSRBC

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

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

HSYRT516

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 14" 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 22/18 516" 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 38" 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

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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
HSYMFI	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

GROMMETS

RG38

RG12

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

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

LSB8

LSB4

LSB1

TAPE

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

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

SLT-15

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

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

HEAT SHRINK TUBING KIT

|		
3MHSKIT	HEAT SHRINK KIT	EACH

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

FW188

FW316SC

POHSC834

POHSC10134
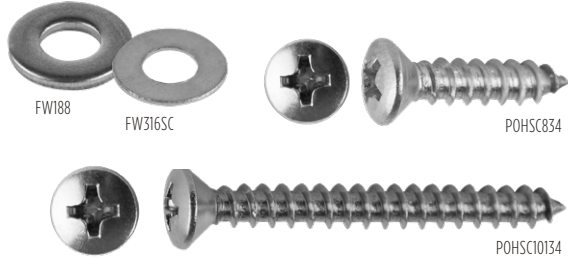
GROUNDING KIT + KIT RE-ORDER PARTS

HIGH SPEED DRILL BIT

PZGDRILL	135° SPLIT POINT AND SHOULDER TIP	EACH

BRUSH TIP

PZGBRUSH	STAINLESS STEEL WIRES CUT DOWN TO BARE METAL QUICKLY	EACH

LOCK WASHERS

PZGLWS	INTERNAL/EXTERNAL ANODIZED	50/PK

GROUNDING KIT

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

PZGGRKT	PROFESSIONAL HIGH CURRENT KIT	EACH

CUTTING BOLTS

PZGBOLT	ZINC ANODIZED THREAD 5/16"	50/PK
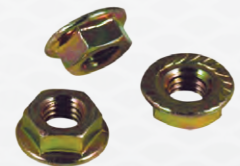
LOCK NUTS

PZGLNUT	ANODIZED FLANGED SERRATED	50/PK

NUT DRIVER

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

ELECTRICAL GEL

PZGGEL	ANTI-CORROSION ELECTRICAL CONNECTION GEL	EACH

SAFETY GLASSES

PZGGLASSES	CLEAR SAFETY GLASSES	EACH

IBPSI100K

SOLDER KIT

IBP2KC	WELLER PROFESSIONAL SELF-IGNITING CORDLESS BUTANE	EACH

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.

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

SOLDERING IRON KIT

IBPSI100K	WELLER SUPER PRO SELF-IGNITING BUTANE SOLDERING IRON KIT	EACH

Professional quality, features "auto switch" safety shut-off and iron plated tip. Provides up to 125 watts of power.

SOLDER

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

SDR1

SOLDERING STATION

IBWLC100	WELLER 40 WATT	EACH

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

WORKLIGHTS

SL864	60 LED W/50FT 18/2 CORD REEL	EACH

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
SLR2166	66 LED RECHARGEABLE SPOT WITH MAG HOOK	EACH

BAYCO

SL2125

SL864

SLR2166

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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

OLPA2	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

OLFSCRL
OLGSB-1S
GSR13B

MULTI-PURPOSE SCRAPER

OLFSCRL	2 1/3"	EACH

Handy scraper features high-quality 21/3" 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
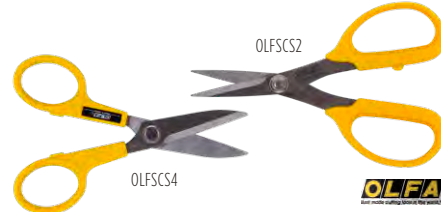
OLFSCS2
OLFSCS4

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.

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

IBJ1005	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

"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.
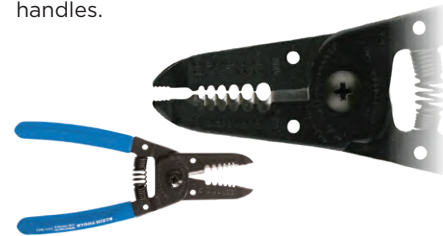
CRIMPING TOOL

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.

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KLEIN TOOLS

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

IB1004		EACH

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

WIRE STRIPPER CUTTER

IB11045		EACH

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

WIRE STRIPPER

IB1011	MULTI PURPOSE	EACH

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

ECONOMY

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.

DIAGONAL CUTTERS

IBD209-4	MIDGET POINTED NOSE (4")	EACH

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

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.

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.

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.

ASB24

ASB10

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

CABLE CUTTER

TCT8	CUTS UP TO 4 GAUGE	EACH

5" STRIPPER AND CUTTER

HW-9006	EACH

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

UNIBIT

IB59001	13 INCREMENTS FRACTIONAL: 1/8"-1/2"	EACH

Double fluted design eliminates skidding and makes for easier resharpening. 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

Double fluted design eliminates skidding and makes for easier resharpening. 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

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

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

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

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 105º OFFSET HI-SPEED HEAD	EACH

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

WRENCH SET

PBS-1438	3/8" AND 1/4" WRENCH SET	EACH

PBX 1400 Powerbox accessory with 7 piece English and Metric sockets.

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

INNOVA

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.

KLEIN TOOLS

MANUAL MULTIMETERS

MM300	MANUAL RANGING	EACH

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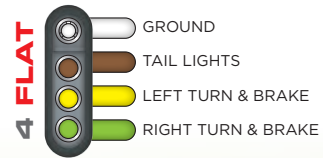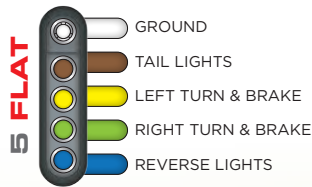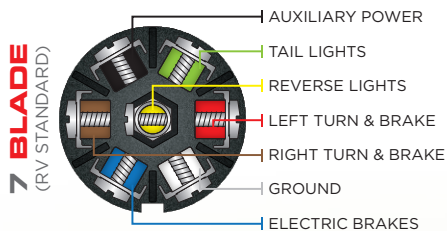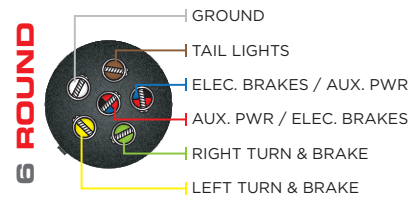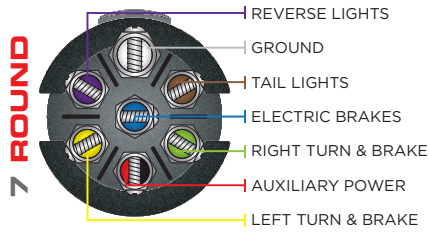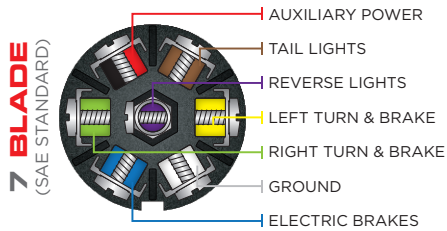- Tests batteries, diodes and continuity
- CAT III 600V safety rating

KLEIN TOOLS

AUTO MULTIMETERS

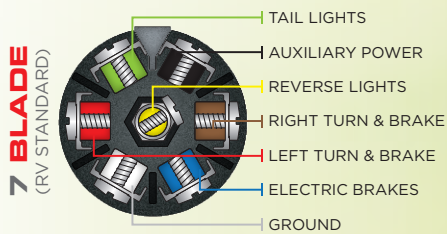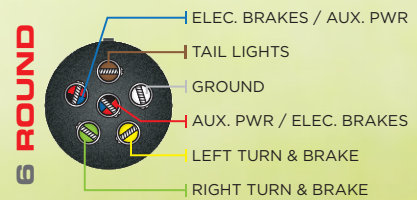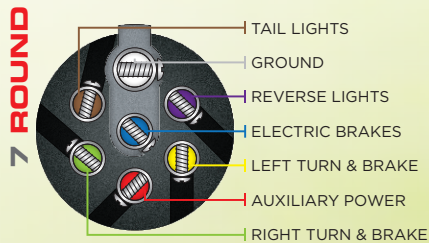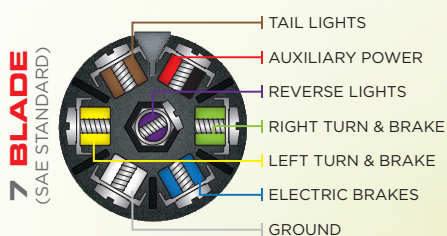| MM400	AUTO RANGING	EACH

- 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
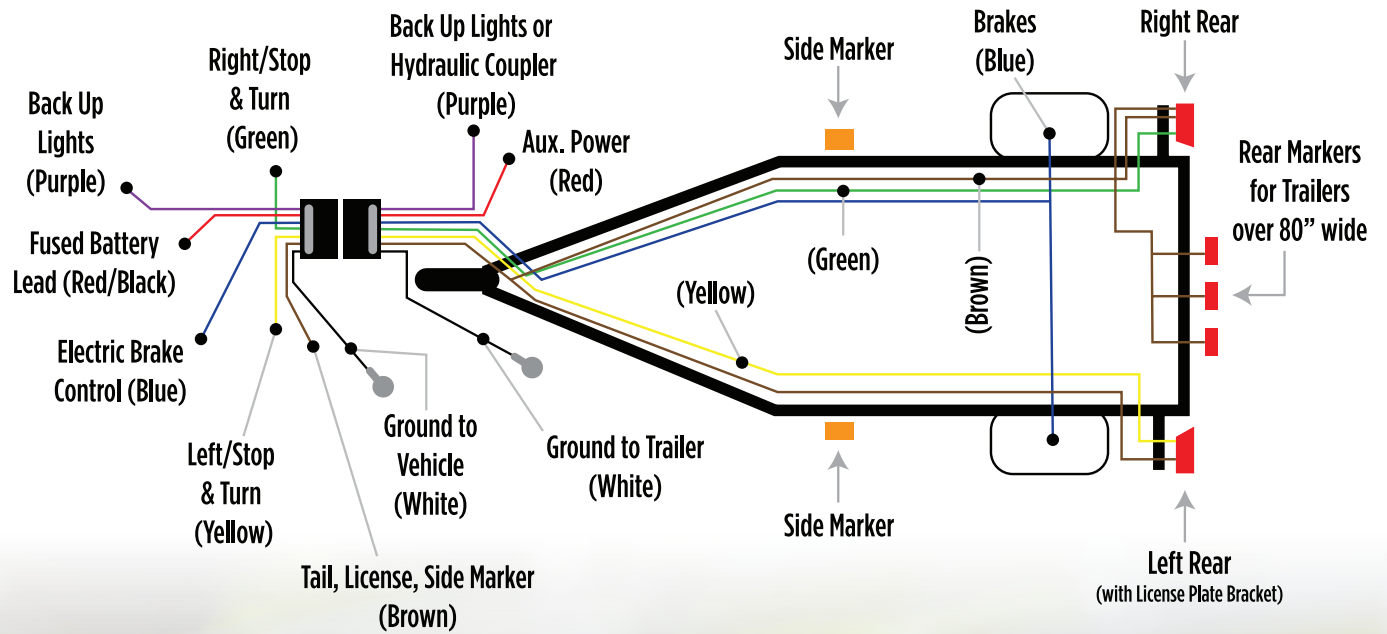- CAT III 600V safety rating

HEISE
TRAILER LIGHTING & ACCESSORIES

TRAILER WIRING REFERENCE GUIDE

VEHICLE-SIDE CONNECTIONS

7 BLADE (SAE STANDARD)
- AUXILIARY POWER
- TAIL LIGHTS
- REVERSE LIGHTS
- LEFT TURN & BRAKE
- RIGHT TURN & BRAKE
- GROUND
- ELECTRIC BRAKES

7 ROUND
- REVERSE LIGHTS
- GROUND
- TAIL LIGHTS
- ELECTRIC BRAKES
- RIGHT TURN & BRAKE
- AUXILIARY POWER
- LEFT TURN & BRAKE

6 ROUND
- GROUND
- TAIL LIGHTS
- ELEC. BRAKES / AUX. PWR
- AUX. PWR / ELEC. BRAKES
- RIGHT TURN & BRAKE
- LEFT TURN & BRAKE

7 BLADE (RV STANDARD)
- AUXILIARY POWER
- TAIL LIGHTS
- REVERSE LIGHTS
- LEFT TURN & BRAKE
- RIGHT TURN & BRAKE
- GROUND
- ELECTRIC BRAKES

5 FLAT
- GROUND
- TAIL LIGHTS
- LEFT TURN & BRAKE
- RIGHT TURN & BRAKE
- REVERSE LIGHTS

4 FLAT
- GROUND
- TAIL LIGHTS
- LEFT TURN & BRAKE
- RIGHT TURN & BRAKE

TRAILER-SIDE CONNECTIONS

7 BLADE (SAE STANDARD)
- TAIL LIGHTS
- AUXILIARY POWER
- REVERSE LIGHTS
- RIGHT TURN & BRAKE
- LEFT TURN & BRAKE
- ELECTRIC BRAKES
- GROUND

7 ROUND
- TAIL LIGHTS
- GROUND
- REVERSE LIGHTS
- ELECTRIC BRAKES
- LEFT TURN & BRAKE
- AUXILIARY POWER
- RIGHT TURN & BRAKE

6 ROUND
- ELEC. BRAKES / AUX. PWR
- TAIL LIGHTS
- GROUND
- AUX. PWR / ELEC. BRAKES
- LEFT TURN & BRAKE
- RIGHT TURN & BRAKE

7 BLADE (RV STANDARD)
- TAIL LIGHTS
- AUXILIARY POWER
- REVERSE LIGHTS
- RIGHT TURN & BRAKE
- LEFT TURN & BRAKE
- ELECTRIC BRAKES
- GROUND

5 FLAT
- GROUND
- TAIL LIGHTS
- LEFT TURN & BRAKE
- RIGHT TURN & BRAKE
- REVERSE LIGHTS

4 FLAT
- GROUND
- TAIL LIGHTS
- LEFT TURN & BRAKE
- RIGHT TURN & BRAKE

HEISE TRAILER LIGHTING & ACCESSORIES

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Back Up Lights or
Hydraulic Coupler
(Purple)

Right/Stop
& Turn
(Green)

Back Up
Lights
(Purple)

Aux. Power
(Red)

Side Marker

Brakes
(Blue)

Right Rear

Fused Battery
Lead (Red/Black)

Rear Markers
for Trailers
over 80" wide

Electric Brake
Control (Blue)

(Green)

(Brown)

(Yellow)

Left/Stop
& Turn
(Yellow)

Ground to
Vehicle
(White)

Ground to Trailer
(White)

Side Marker

Tail, License, Side Marker
(Brown)

Left Rear
(with License Plate Bracket)

TERMS & CONDITIONS

TERMS Net 30 days from date of invoice on approved accounts. Minimum order: $50 per invoice, orders less than required minimum incur a $20 service charge.

FREIGHT Freight on board (F.O.B.) from point of shipment.

CREDIT In order to establish a credit line with Metra, an application for credit must be submitted listing a minimum of two (2) trade references and a bank with their addresses and phone numbers and must be signed by a principal or authorized officer of the company. A credit line will be established by our credit Manager and must be maintained in a current status according to our terms (net 30 days). Credit not established or revoked requires remittance with order. Will be placed on any amounts that are 30 days or more past due.

RESALE TAX EXEMPTION CERTIFICATE California customers must provide a valid resale card before an order can be placed.

CLAIMS Title and risk of loss passes to buyer at F.O.B. Shipping point and all claims must be filed with Carrier. Any discrepancies must be reported to Metra within ten (10) days of receipt of shipment.

RETURNS All sales are final. No returns or exchanges will be allowed without prior written authorization from Metra. All returns are subject to a 20% handling charge, must be in a saleable condition, and must have been purchased within sixty (60) days of return request. No stock balancing permitted. Copies of invoices must be mailed in advance for any return authorization (R.A.).

WARRANTY

The warranty covers defects in the original material and workmanship except when:
- Installed by anyone who is NOT an authorized Metra Electronics® retailer, dealer or distributor.
- Any product is purchased from an unauthorized retailer, dealer or distributor.
- Any product that has had it serial number and or model number is altered, damaged, removed or replicated.

The warranty will NOT be honored if any damage or malfunctions occur due to the following scenarios:
- When the defect or damage results from shipping,
- Installation or removal of the product.
- During repair or attempt to repair without authorization from Metra Electronics.
- Other causes not related to an actual manufacturing defect.
- Any cosmetic damage that occurs to the product during normal use i.e. normal wear and tear.
- Any consumable components on the product such as a fuse or battery.
- Any accidents, acts of nature, misuse, abuse, neglect, unauthorized product modifications, or failure to follow product owner's manual instructions during installation and use.

Metra Electronics® the manufacturer of Heise LED Lighting Systems® warrants this products only to the original purchaser.
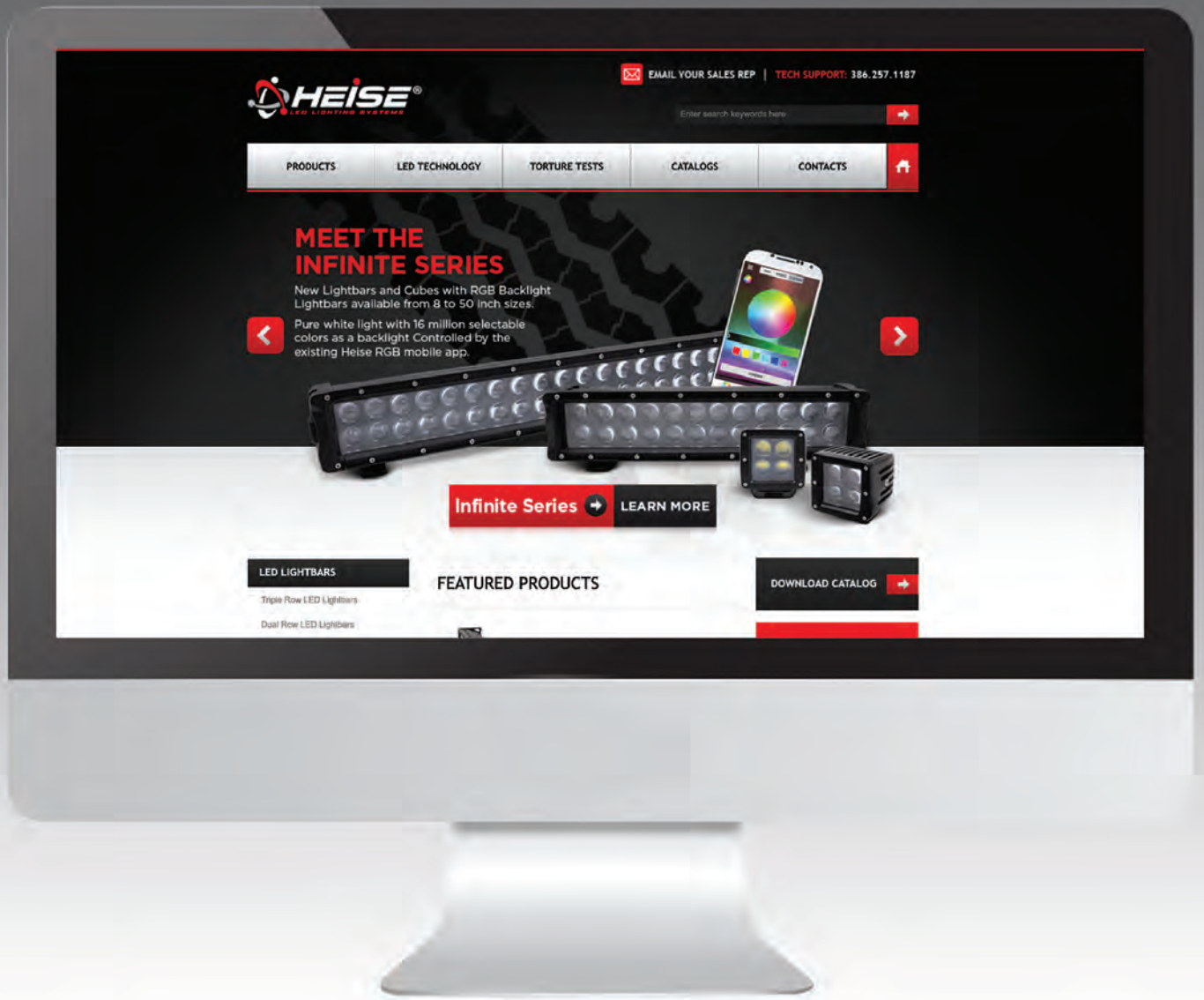
BACK ORDERS If an item is temporarily unavailable for immediate shipment, we will back-order the item and ship as soon as possible from the nearest available warehouse, unless otherwise instructed.

Metra reserves the right to make changes in or deletions of products or prices without prior notice.

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