

## Electrical connectors commonly used in towing

See page 13 for additional trailer wiring information.

### Connector type

### Typical applications:



4

#### 4-Wire Flat

- Right turn / brake
- Left turn / brake
- Tail / marker lights

- Small boat trailers
- Utility trailers
- Jet ski and snowmobile trailers
- Small campers



4

#### 4-Pole Round

- Right turn / brake
- Left turn / brake
- Tail / marker lights

- Same as 4-way flat
- No industry standard wiring code



5

#### 5-Wire Flat

- Right turn / brake
- Left turn / brake
- Tail / marker lights
- Electric brake, auxiliary or backup

- Boat trailers



5

#### 5-Pole Round

- Right turn / brake
- Left turn / brake
- Tail / marker lights
- Electric brake, auxiliary or backup

- Same as 4-way flat
- Provides one additional function



6

#### 6-Pole Round

- Right turn / brake
- Left turn / brake
- Tail / marker lights
- Electric brake
- Auxiliary power lead

- Horse trailers
- Car haulers



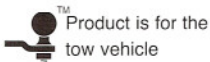
7

#### 7-Pole Round

- Right turn / brake
- Left turn / brake
- Tail / marker lights
- Electric brake
- Auxiliary power lead
- Backup lights

- Large trailers
- RVs
- Industrial trailers

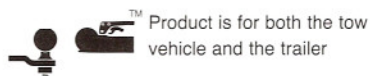
### Hoppy® packaging symbols



™ Product is for the tow vehicle



™ Product is for the trailer



™ Product is for both the tow vehicle and the trailer



## Hopkins Manufacturing Corporation

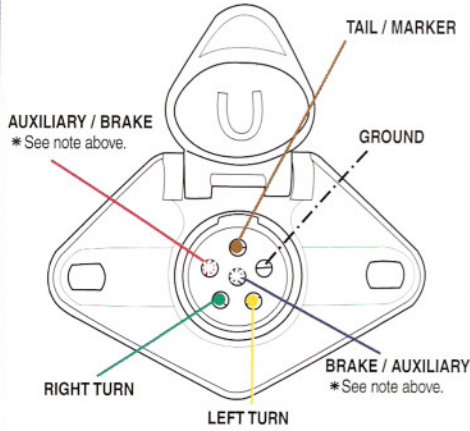
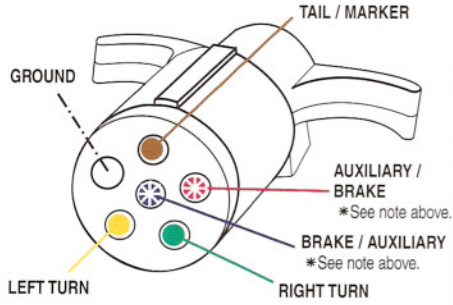
428 Peyton, P.O. Box 1157 • Emporia, KS 66801-1157 • 620-342-7320

Visit Our Web Sites: [www.trailerwiring.com](http://www.trailerwiring.com),  
[www.hopkinsmfg.com](http://www.hopkinsmfg.com) and [www.brakebuddy.com](http://www.brakebuddy.com)

CONNECTOR	FUNCTION	COLOR	4-Way & 5-Way	6-Way & 7-Way	WHERE TO ATTACH - Vehicle Side	WHERE TO ATTACH - Trailer Side
7 WAY	RIGHT TURN	GREEN	18	16	Right turn of vehicle's wiring harness	Trailer's right turn signal
	LEFT TURN	YELLOW	18	16	Left turn of vehicle's wiring harness	Trailer's left turn signal
	GROUND	WHITE	16	12	Vehicle ground point - metal, uncoated, rustproof	Trailer's ground point - metal, uncoated, rustproof
	TAIL / MARKER	BROWN	18	16	Taillight of vehicle's wiring harness	Trailer's taillights
	BRAKE	BLUE	18	12	Electric brake control	Break away switch
	BATTERY	RED		12	Fuse block or FUSED battery lead	Break away kit
	BACK UP	PURPLE		16	Back up of vehicle's wiring harness	Back up lights (if available)

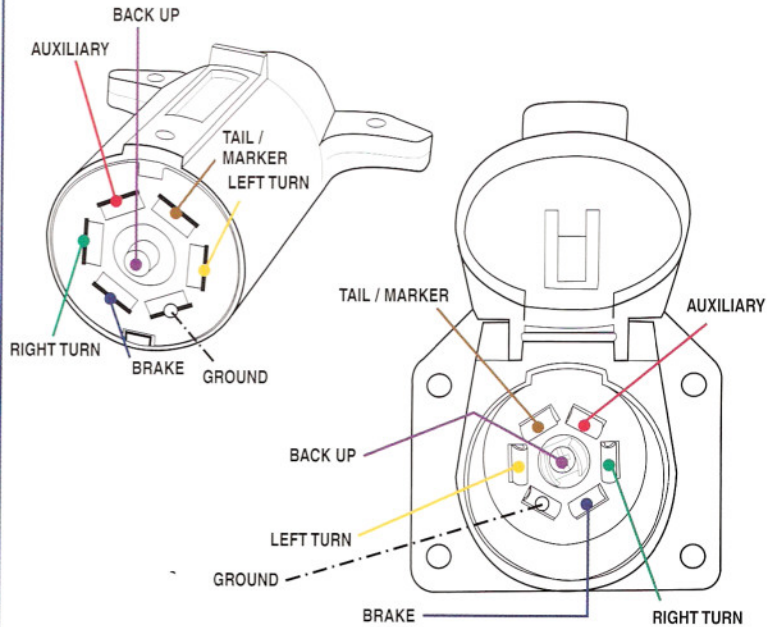
### 6-WAY ROUND WIRING DIAGRAM

\* Brake and Auxiliary Power have two different industry standards. Identify which way your trailer is wired before wiring connectors.



**NOTE:** Identify the wires on your vehicle and trailer by function only. Color coding is not standard among all manufacturers.

### 7-WAY RV BLADE WIRING DIAGRAM



### HOPPY® MODEL NO. 48245 TRAILER WIRING DIAGRAM

