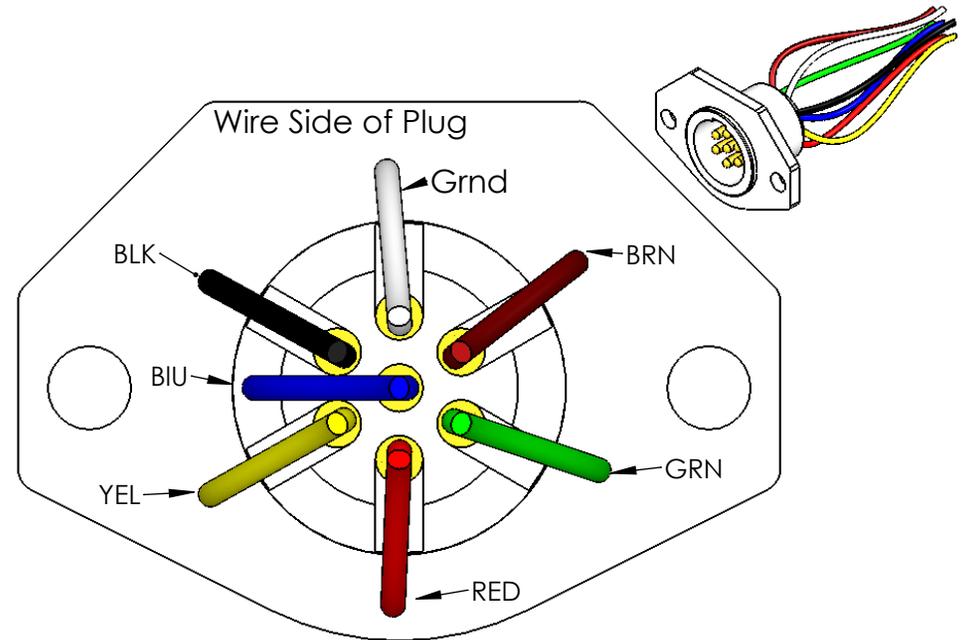
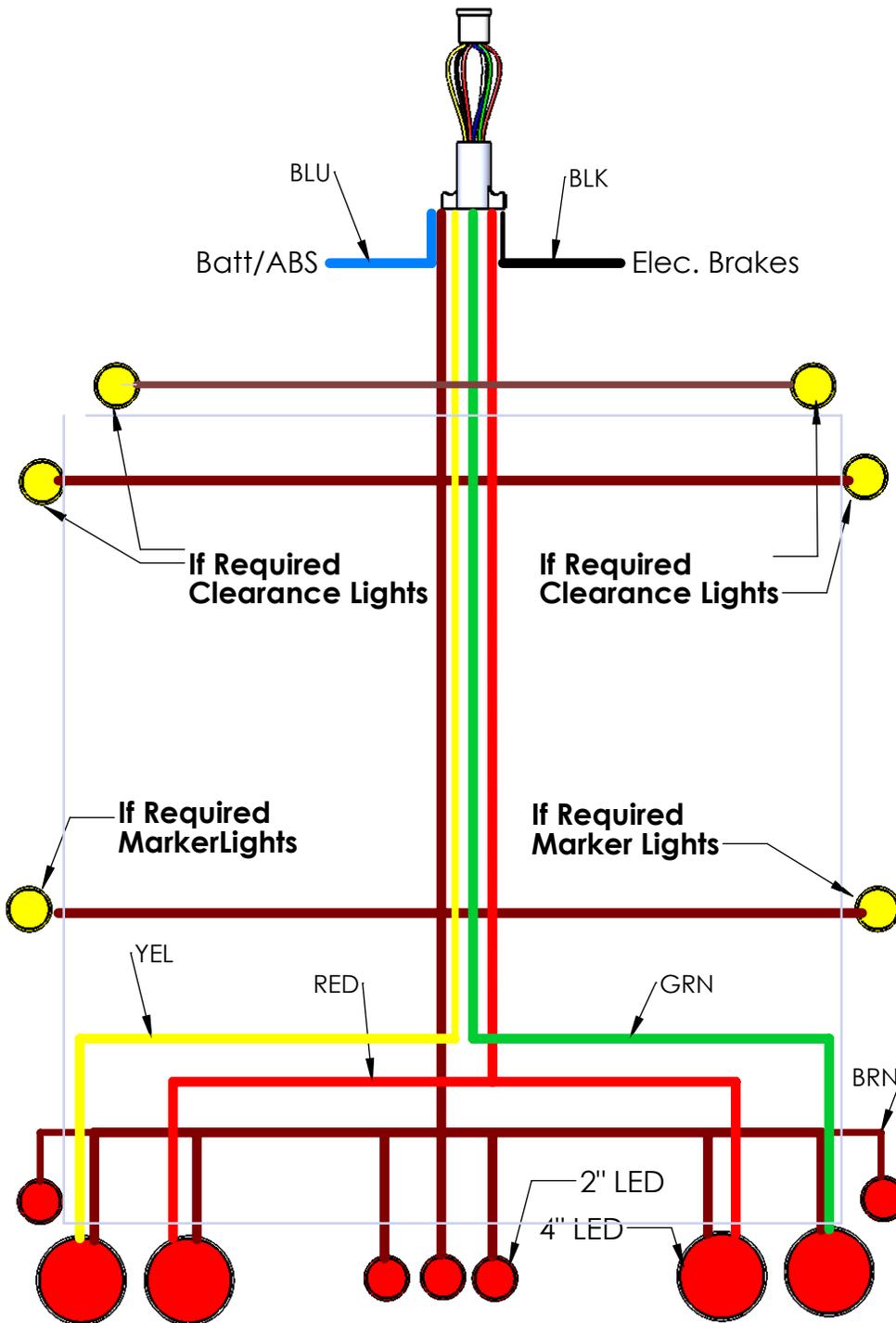




Pin Side of Plug



**All Trucks and trailers**

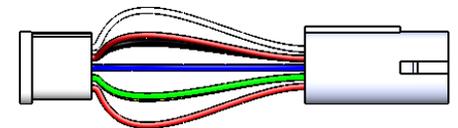
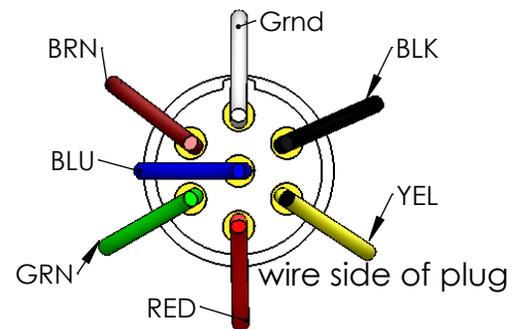
- White- Ground
- Brown- All Marker, Clearance, and tail lights
- Green- Right Turn & possibly brake also
- Yellow- Left Turn & possibly brake also
- Red - Brake

**Light Duty Tow Vehicles**

- Black - Elec Brakes
- Blue - Ignition Controlled Battery Feed

**Heavy duty Tow vehicle and trailers - Air brakes**

- Black - Electric Brakes
- Blue - Trailer ABS Power (Ign controlled battery feed)



## Trailer Wiring Specifications

Mn/DOT will only purchase trailers that meet the following lighting and wiring specifications (Reference Drawing):

- Trailer shall meet or exceed all current Federal Motor Carrier Safety Regulations 393.9 thru 393.33.
- Trailer cord plug shall meet SAE spec. J560 and be wired directly to trailer cord with no adaptors.
- Plug to be wired as follows (no other plug wiring will be accepted):

**White** – Ground return to towing vehicle

**Black** – Electric brake controller – or not utilized if trailer has air, hydraulic or no brakes

**Yellow** – Left turn signal and on some light duty tow vehicles, stop/ hazard lamps

**Red** – Stop lamps and antilock device

**Green** – Right turn signal and on some light duty tow vehicles, stop/hazard lamps

**Brown** – Clearance, marker, and tail lights

**Blue** – If air Brake – Continuous ABS power- If electric Brake – Ign. controlled B+ for break-away battery charge maintenance circuit

- **No adaptors will be accepted.**

- Trailer cord to be wired to a weatherproof, 7-terminal junction block (Waytek part #47290 or approved equal).

- All trailer light wiring (including ground wiring) must be routed to junction block.

- Wire splices will be done with heat shrink butt connectors or soldered with heat-shrink.

- No wire nuts, closed end connectors or self-stripping displacement connectors (i.e. Scotch Loks).

- **All lights to be LED.** There shall be individual brake (2 ea.) and turn signal lights (2 ea.) for a total of 4 lights . These lights shall be 4" Round lights in rubber grommets or 3"x7" oval Lights in rubber grommets. Clearance and Marker lights shall be 2" round lights in rubber grommets or a MnDOT approved equal.