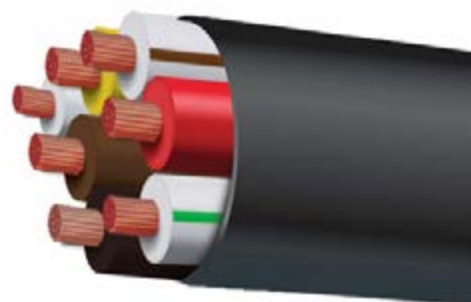


E49-0213 EBS Cable

Advances in Heavy Duty Braking Systems with EBS (Electronic Braking Systems) which incorporate several other braking/control functions have seen a vast improvement in brake control and function over air or pneumatic braking alone. As of 1st January 2015 all New Heavy Vehicles and Trailers must have EBS fitted to be registered.

EBS incorporates

- Electronic Stability Control (ESC), which independently intervenes to adjust engine and brake controls to reduce rollover, skidding, spinning and jack-knifing
- Adaptive Cruise Control (ACC) interface, with driver alert system that automatically monitors traffic and senses distance from the vehicle in front
- Anti-lock Braking System (ABS) and Differential Slip Control (DSR)
- Automatic Traction Control (ATC)
- Electronic activation of braking system components
- Retarder and engine brake integration into the service brake application
- Brake force distribution adapts to load distribution
- ABS Functionality
- Continuous self-testing via integrated diagnostic and monitoring functions



The Excerpt below is from Australian design rules

Electronic Braking Systems

EBS (or for trailers TEBS) overlay conventional pneumatically controlled brake systems and instead control brake actuation through electrical signals (the pneumatic control is used as a backup). An important feature of EBS is the ability to allow communication between elements of the braking system on all vehicles in a combination (i.e. truck and trailer(s)) via a communications network that operates on set protocols (a Controller Area Network (CAN) bus) system. When EBS is fitted, ABS is always incorporated, as it provides the emergency braking component of the electronic control of the braking system.

E49-0213 EBS Cable is used to supply power and data from the towing vehicle to the trailer mounted controller.

Cable Identification

7 Pin EBS Round Plug & Socket			ABS	EBS	Cable Size
1	Red	Solenoid control valves (Pos+)	✓	✓	4.0mm ²
2	Black	Electronics (Pos+)	✓	✓	1.5mm ²
3	Yellow	Electronics (Neg+)	✓	✓	1.5mm ²
4	Brown	Solenoid control valves (Neg+)	✓	✓	4.0mm ²
5	White	Warning device	✓	✓	1.5mm ²
6	Green / White	CAN bus (high)		✓	1.5mm ²
7	Brown / White	CAN bus (low)		✓	1.5mm ²



7 Pin Plug



7 Pin Socket