



Performance Standards

- AAR Specification S-4210 – Performance specification for ECP Brake System Cable, connectors and junction boxes (August 2014)
- ASTM B-33 – Tinned soft or annealed copper wires
- ICEA S-95-658 – XLPE insulation X-2
- MIL-C-13777 – Cables, special purpose, electrical
- UL 1581 – Reference standard for electrical wires, cables and flexible cords

Construction

Conductor: #8 AWG (37/24) stranded tinned copper per ASTM B-33

Insulation: Cross-linked polyolefin (Exane®)

Color Code: (1) Black, (1) White

Tape: Polyester tape

Drain Wire: #16 AWG stranded tinned copper, spirally applied

Braid Shield: #34 AWG tinned copper with an 85% minimum coverage

Tape: Separator tape

Jacket: Low temperature heavy duty neoprene reinforced per MIL-C-13777

OD: 0.725 +/- 0.025 inch

Armor: Flexible Galvanized Steel Interlocked Armor (GSIA)

OD: 0.98 +/- 0.010 inch

Impedance: 50 +/- 5 ohm

Scope

AAR approved power and signal cable suitable for wiring the undercar and other fixed areas of interchange freight cars and locomotives equipped with ECP Brake Systems. This flexible armored cable is ideal for use between freight car junction boxes where the cable is routed through car structure and then attached to the car. This cable provides its own mechanical and physical protection and does NOT require the use of metal conduit or flexible liquid tight conduit.

