



Southwire® High-Voltage ISO Battery Cable Thick Wall 150°C 1000VAC/1500VDC

150°C. 1000 Volts AC or 1500 Volts DC. Standard and Flexible Stranded Copper Conductor. XLPO Insulation.



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Standard and flexible stranded soft-drawn bare copper
2. **Separator:** Polypropylene Tape
3. **Insulation:** Cross Linked Polyolefin (XLPO)

APPLICATIONS AND FEATURES:

Southwire's High-Voltage Battery Cable is designed for Electric Vehicle (EV) battery systems, commonly used to connect the charging port and the battery, the battery inter-wiring, the battery, the engine, and several other electrical components. It is ISO Certified and manufactured using continuous vulcanization (CV) cured and flexible XLPO insulation. These products are developed and manufactured in America. Rated for -40° C to 150° C operating temperature.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ISO 19642-5 Road vehicles — Automotive cables —Part 5: Dimensions and requirements for 600V a.c. or 900V d.c. and 1000V a.c. or 1 500 V d.c. single core copper conductor cables
- Ford ES-JU5T-1A348-AA (600V AC or 900V DC Single Core Copper Conductor Cable)
- General Motors GMW15626 (1,000V AC or 1,500V DC Single Core Copper Conductor Cables)
- Stellantis MS.90034-05 (1,000V AC or 1,500V DC Single Core Stranded ISO Copper Cable)



Table 1 - Weights and Measurements

| Stock Number | Conductor Size mm ² | Conductor Strands No. | Insulation Thickness mm | Overall Diameter mm | Nominal Weight kg/mm |
|--------------|-----------------------------------|--------------------------|----------------------------|------------------------|-------------------------|
| Thick Wall | | | | | |
| EB105030 | 10 | 144 | 1.04 | 6.22 | 114 |
| EB105040 | 10 | 322 | 1.02 | 6.32 | 113 |
| EB505030 | 50 | 722 | 1.54 | 12.5 | 520 |
| EB505040 | 50 | 1615 | 1.55 | 12.55 | 534 |
| EB705030 | 70 | 1064 | 1.63 | 14.5 | 729 |
| EB705040 | 70 | 2147 | 1.63 | 14.5 | 729 |
| Thin Wall | | | | | |
| EB105010 | 10 | 144 | 0.74 | 5.66 | 108 |
| EB105020 | 10 | 322 | 0.74 | 5.66 | 108 |
| EB505010 | 50 | 722 | 1.07 | 11.61 | 479 |
| EB505020 | 50 | 1615 | 1.07 | 11.61 | 479 |
| EB705010 | 70 | 1064 | 1.19 | 13.72 | 697 |
| EB705020 | 70 | 2147 | 1.19 | 13.72 | 697 |