

SP 6250



PVC INSULATED TWIN FIGURE 8 SPEAKER CABLE SP 6250 (Heavy Duty)

TYPE: UL/CSA FLEXIBLE CORD SPT-2, 105°C
(SP 6250 White and Brown Speaker Cable)

Size: AWG18 (42/0.16mm) x 2C

MATERIAL

Conductor: Annealed Untinned Copper Wire

Insulation: PVC 105°C to UL 62 and CSA Standard C22.2 No. 49-1981

CONSTRUCTION: Integral type

Conductor

No. of Strand: 42

Lay length (Max), mm: 32

Diameter of Single Strand, mm: 0.16 ± 0.008

Insulation

Nominal Thickness, mm: 1.22

Minimum Thickness before separation, mm: 1.02

Minimum Thickness after separation, mm: 0.69

Overall diameter, mm: 3.64 x 7.30

Temperature (Max): 105°

ELECTRICAL PROPERTIES

Conductor resistance (Max), ohm/kM (20°): 24

Insulation resistance (Min), Mohm/kM (25°C): 10 (By immersion test)

High tension test at room temperature
Voltage applied between conductors: 1.5 kV
Time: 1 minute
Requirement: No breakdown

PHYSICAL PROPERTIES

Elongation & Tensile Strength before aging.

Conductor: Elongation: 15%

Insulation: Elongation: 100%

Tensile Strength: 1.05 kgf/mm²

Elongation & Tensile Strength of insulation after aging at 136°C for 7 days

Elongation & tensile strength of insulation should be at least 70% of the value before aging.

No damage in appearance in insulation and able to withstand high tension test as mentioned in paragraph 3.3

COID BEND TEST

The finished cable shall not show any cracks when subject for 4 hours at $-35 \pm 2^\circ\text{C}$ and immediately wound for 6 turns onto a mandrel with 10mm diameter.

The test method is described in paragraph 580.1 of UL 1581.

HEAT SHOCK TEST

The PVC insulation shall not show any cracks after a specimen is wound around a mandrel of 4mm diameter and then subjected to a temperature of $121.0 \pm 1^\circ\text{C}$ in a full-draft circulating air oven for 1 hour as described in paragraph 540.1 of UL 1581.

DEFORMATION TEST

Specimens of the PVC insulation shall decrease no more than 50% in thickness — that is T_2/T_1 shall be 0.50 or more — under the load of 250-300 grams while being maintained at a temperature of $121 \pm 1^\circ\text{C}$. The method of test is described in paragraphs 560.1 — 560.6 of UL 1581.