

FAA-L-824 Underground primary cable for Airport lighting circuits

Type B - copper tape screened 5 kV (SRC7N)

1/1

Reference standard :

FAA AC 150/5345-7F


Construction

1. Stranded tinned copper conductor
2. EPR Insulation
3. Semi-conducting tape, helically applied
4. One lay of copper tape, helically applied, 25% overlapping
5. Separation tape
6. CPE (chlorinated polyethylene, cross-linked, heavy duty) outer sheath - black

Properties

- Abrasion resistant
- Oil resistant
- UV resistant
- Deicer resistant (FR/KAc)
- Service temperature: -40 ... +85 °C (for a max. current of 6,6 A)
- Min. bending radius: 12x outer diameter
- Max. pulling force: copper cross-section (in mm²) x 50 N/mm² applied on the conductor
- Min. laying temperature: -10 °C

Dimensions

Cross-section	Conductor assembly	Insulation thickness mm	Screen mm	Sheath thickness mm	Overall diameter mm	Weight kg/km
1 x 6 mm ² ⁽¹⁾	7-stranded	2,3	0,08 x 22	1,2	11,1	194
1 x AWG 8	7-stranded	2,3	0,08 x 22	1,2	11,7	225

Electrical characteristics

Cross-section	Conductor resistance ⁽²⁾ Ω/km @ 20 °C	Voltage test ⁽²⁾ kV _{dc} -min.	Insulation resistance ⁽²⁾ MΩ.km @ 15,6 °C	Partial discharge ⁽³⁾ pC @ 4 kV
1 x 6 mm ² ⁽¹⁾	<3,11	35 - 15	>2220 ⁽⁴⁾	≤ 5
1 x AWG 8	<2,18	35 - 15	>2060 ⁽⁴⁾	≤ 5

⁽¹⁾ acc. IEC 60228 ⁽²⁾ routine test ⁽³⁾ sample test ⁽⁴⁾ K_i=20000 MΩ . 1000 ft

All information given is indicative only and not binding and can be subject to change without notice.