

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

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Type B - unscreened 5 kV

(SRN)

Reference standard :

FAA AC 150/5345-7F


Construction

1. Stranded tinned copper conductor
2. EPR Insulation
3. 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: 5x 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	Sheath thickness mm	Overall diameter mm	Weight kg/km
1 x 6 mm ² ⁽¹⁾	7-stranded	2,3	1,2	10,0	150
1 x AWG 8	7-stranded	2,3	1,2	10,5	178

Electrical characteristics

Cross-section	Conductor resistance ⁽²⁾ Ω/km @ 20 °C	Voltage test (in water) ⁽²⁾ kV _{DC} -min.	Insulation resistance ⁽²⁾ MΩ.km @ 15,6 °C
1 x 6 mm ² ⁽¹⁾	<3,11	35 - 5	>2435 ⁽³⁾
1 x AWG 8	<2,18	35 - 5	>2265 ⁽³⁾

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

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