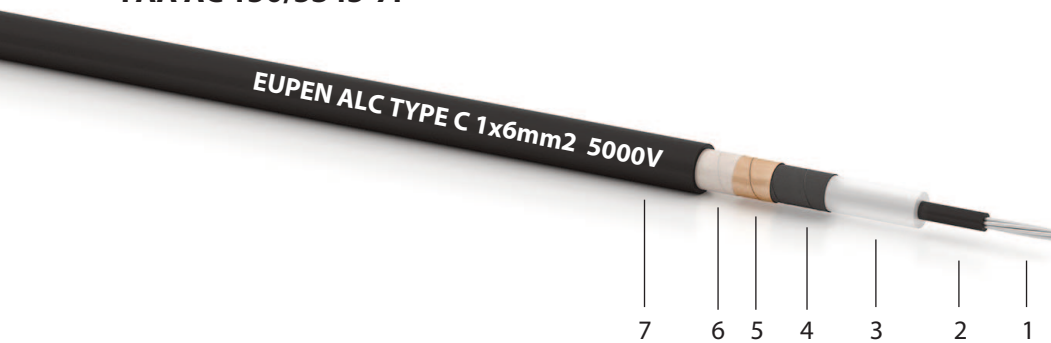


# FAA-L-824 Underground primary cable for Airport lighting circuits

## Type C - copper tape screened 5 kV (SXC7E)

1/1

Reference standard :

**FAA AC 150/5345-7F**


### Construction

1. Stranded tinned copper conductor
2. Extruded semi-conducting compound
3. XLPE Insulation
4. Semi-conducting tape, helically applied
5. One lay of copper tape, helically applied
6. Separation tape
7. Termite protected PE outer sheath - black

### Properties

- Abrasion resistant
- Oil resistant
- UV resistant
- Deicer resistant (FR/KAc)
- Halogen-free
- 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 mm<sup>2</sup>) x 50 N/mm<sup>2</sup> applied on the conductor
- Min. laying temperature: -10 °C

### Dimensions

| Cross-section                        | Conductor assembly | Insulation thickness<br>mm | Screen tape<br>mm | Sheath thickness<br>mm | Overall diameter<br>mm | Weight<br>approx. kg/km |
|--------------------------------------|--------------------|----------------------------|-------------------|------------------------|------------------------|-------------------------|
| 1 x 6 mm <sup>2</sup> <sup>(1)</sup> | 7-stranded         | 2,3                        | 0,08 x 24         | 1,6                    | 11,5 - 13,0            | 176                     |
| 1 x AWG 8                            | 7-stranded         | 2,3                        | 0,08 x 24         | 1,6                    | 12,5 - 14,0            | 205                     |

### Electrical characteristics

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

<sup>(1)</sup> acc. IEC 60228    <sup>(2)</sup> routine test    <sup>(3)</sup> sample test    <sup>(4)</sup> K<sub>i</sub>=20000 MΩ . 1000 ft

### Options

- Different outer sheath colour (with consequently decreased UV resistance)
- PVC outer sheath with flame retardance acc. to IEC 60332-1

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