FAA-L-824 Underground primary cable for Airport lighting circuits
Type C - brass tape screened 5 kV (SXC7E)

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 layer of brass 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 mm²) x 50 N/mm² applied on the conductor
• Min. laying temperature: -10 °C

Dimensions

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Conductor assembly</th>
<th>Insulation thickness</th>
<th>Screen tape</th>
<th>Sheath thickness</th>
<th>Overall diameter</th>
<th>Weight approx. kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 6 mm² (1)</td>
<td>7-stranded</td>
<td>2,3</td>
<td>0,08 x 24</td>
<td>1,6</td>
<td>11,5 - 13,0</td>
<td>174</td>
</tr>
<tr>
<td>1 x AWG 8</td>
<td>7-stranded</td>
<td>2,3</td>
<td>0,08 x 24</td>
<td>1,6</td>
<td>12,0 - 13,5</td>
<td>203</td>
</tr>
</tbody>
</table>

Electrical characteristics

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Conductor resistance (2) Ω/km @ 20 °C</th>
<th>Voltage test (2) kVdc -min.</th>
<th>Insulation resistance (3) MΩ.km @ 15,6 °C</th>
<th>Partial discharge (3) pC @ 4 kV</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 6 mm² (1)</td>
<td>&lt;3,11</td>
<td>35 - 15</td>
<td>&gt;2220 (6)</td>
<td>≤ 5</td>
</tr>
<tr>
<td>1 x AWG 8</td>
<td>&lt;2,18</td>
<td>35 - 15</td>
<td>&gt;2060 (6)</td>
<td>≤ 5</td>
</tr>
</tbody>
</table>

(1) acc. IEC 60228  (2) routine test  (3) sample test  (6) K=20000 MΩ . 1000 ft

Options
- Different outer sheath colour (with consequently decreased UV resistance)
- Corrugated steel tape armour + bonded HDPE-sheath as rodent protection
- PVC outer sheath with flame retardance acc. to IEC 60332-1

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

**Type C - copper tape screened** $5 \text{kV}$ (SXC7E)

**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: $-40 \ldots +85 \, ^\circ\text{C}$
  (for a max. current of 6.6 A)
- Min. bending radius: 12x outer diameter
- Max. pulling force: copper cross-section (in mm$^2$) x 50 N/mm$^2$
  applied on the conductor
- Min. laying temperature: $-10 \, ^\circ\text{C}$

**Dimensions**

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Conductor assembly</th>
<th>Insulation thickness</th>
<th>Screen tape</th>
<th>Sheath thickness</th>
<th>Overall diameter</th>
<th>Weight approx. kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 6 mm$^2$</td>
<td>7-stranded</td>
<td>2,3</td>
<td>0,08 x 24</td>
<td>1,6</td>
<td>11,5 - 13,0</td>
<td>176</td>
</tr>
<tr>
<td>1 x AWG 8</td>
<td>7-stranded</td>
<td>2,3</td>
<td>0,08 x 24</td>
<td>1,6</td>
<td>12,5 - 14,0</td>
<td>205</td>
</tr>
</tbody>
</table>

**Electrical characteristics**

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Conductor resistance$^{(2)}$ $\Omega$ km @ 20 °C</th>
<th>Voltage test$^{(2)}$ $kV_{dc}$ -min.</th>
<th>Insulation resistance$^{(2)}$ $M\Omega$ km @ 15,6 °C</th>
<th>Partial discharge$^{(3)}$ pC @ 4 kV</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 6 mm$^2$</td>
<td>$&lt;3,11$</td>
<td>35 - 15</td>
<td>$&gt;2220$</td>
<td>$\leq 5$</td>
</tr>
<tr>
<td>1 x AWG 8</td>
<td>$&lt;2,18$</td>
<td>35 - 15</td>
<td>$&gt;2060$</td>
<td>$\leq 5$</td>
</tr>
</tbody>
</table>

$^{(1)}$ acc. IEC 60228  $^{(2)}$ routine test  $^{(3)}$ sample test  $^{(4)}$ K$_i$=20000 M$\Omega$ . 1000 ft

**Options**

- Different outer sheath colour (with consequently decreased UV resistance)
- Corrugated steel tape armour + bonded HDPE-sheath as rodent protection
- PVC outer sheath with flame retardance acc. to IEC 60332-1

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

**Type C - copper wire braid screened** 5 kV (SXC4E)

**Construction**

1. Stranded tinned copper conductor
2. Extruded semi-conducting compound
3. XLPE Insulation
4. Semi-conducting tape, helically applied
5. Tinned copper wire braid
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 mm²)x 50 N/mm² applied on the conductor
- Min. laying temperature: -10 °C

**Dimensions**

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Conductor/screen</th>
<th>Conductor assembly</th>
<th>Insulation thickness</th>
<th>Sheath thickness</th>
<th>Overall diameter</th>
<th>Weight kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td></td>
</tr>
<tr>
<td>1 x 6 mm² / 4</td>
<td>7-stranded</td>
<td></td>
<td>2,3</td>
<td>1,6</td>
<td>12,5 - 14,0</td>
<td>215</td>
</tr>
<tr>
<td>1 x AWG 8 / 4</td>
<td>7-stranded</td>
<td></td>
<td>2,3</td>
<td>1,6</td>
<td>13,5 - 14,5</td>
<td>245</td>
</tr>
</tbody>
</table>

**Electrical characteristics**

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Conductor resistance⁽¹⁾</th>
<th>Screen resistance</th>
<th>Voltage test⁽²⁾</th>
<th>Insulation resistance⁽³⁾</th>
<th>Partial discharge⁽⁴⁾</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ω/km @ 20 °C</td>
<td>Ω/km @ 20 °C</td>
<td>kV dc-min.</td>
<td>MΩ km @ 15,6 °C</td>
<td>pC @ 4 kV</td>
</tr>
<tr>
<td>1 x 6 mm² / 4</td>
<td>&lt;3,11</td>
<td>&lt;4,61</td>
<td>35 - 15</td>
<td>&gt;2220⁽⁵⁾</td>
<td>≤ 5</td>
</tr>
<tr>
<td>1 x AWG 8 / 4</td>
<td>&lt;2,18</td>
<td>&lt;4,61</td>
<td>35 - 15</td>
<td>&gt;2060⁽⁶⁾</td>
<td>≤ 5</td>
</tr>
</tbody>
</table>

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

**Options**

- Different outer sheath colour (with consequently decreased UV resistance)

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Underground primary cables for Airport lighting circuits

FLYCY with copper braid screen

generated to internal specifications

Construction

1. Conductor: bare solid or stranded copper conductor according to IEC 60228 class 1 or class 2
2. Insulation: PVC
3. Screen: annealed copper wire braid
4. Separator: PETP foil
5. Sheath: PVC color to agree

Electrical Properties

- Conductor resistance (dc): max. 3.08 OHM/km (20 °C)
- Screen resistance (dc): 2.5 max 7.41 OHM/km (20 °C)
- Screen resistance (dc): 4 max 4.61 OHM/km (20 °C)
- Screen resistance (dc): 6 max 3.08 OHM/km (20 °C)
- Voltage test screen/water: 1.5 kV/5’ (ac)

Dimensions

<table>
<thead>
<tr>
<th>Section &amp; screen</th>
<th>Voltage</th>
<th>Voltage test core/screen</th>
<th>Nominal Insulation thickness</th>
<th>Nominal Sheath thickness</th>
<th>Outer diameter</th>
<th>Copper weight</th>
<th>Cable weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>U0</td>
<td>kWh ac / 5’</td>
<td>mm</td>
<td>mm</td>
<td>approx. mm</td>
<td>kg/km</td>
<td>approx. kg/km</td>
</tr>
<tr>
<td>1 x 6 re 2,5</td>
<td>1 kV</td>
<td>5</td>
<td>1,5</td>
<td>1,8</td>
<td>10,5</td>
<td>90</td>
<td>190</td>
</tr>
<tr>
<td>1 x 6 rm 2,5</td>
<td>1 kV</td>
<td>5</td>
<td>1,5</td>
<td>1,8</td>
<td>11,0</td>
<td>92</td>
<td>200</td>
</tr>
<tr>
<td>1 x 6 re 2,5</td>
<td>1,5 kV</td>
<td>6</td>
<td>2</td>
<td>1,8</td>
<td>11,5</td>
<td>91</td>
<td>215</td>
</tr>
<tr>
<td>1 x 6 rm 2,5</td>
<td>1,5 kV</td>
<td>6</td>
<td>2</td>
<td>1,8</td>
<td>12,0</td>
<td>92</td>
<td>225</td>
</tr>
<tr>
<td>1 x 6 re 4</td>
<td>1,5 kV</td>
<td>6</td>
<td>2</td>
<td>1,8</td>
<td>11,5</td>
<td>108</td>
<td>230</td>
</tr>
<tr>
<td>1 x 6 rm 4</td>
<td>1,5 kV</td>
<td>6</td>
<td>2</td>
<td>1,8</td>
<td>12,0</td>
<td>111</td>
<td>240</td>
</tr>
<tr>
<td>1 x 6 re 2,5</td>
<td>2,5 kV</td>
<td>9</td>
<td>2,5</td>
<td>1,8</td>
<td>12,5</td>
<td>91</td>
<td>240</td>
</tr>
<tr>
<td>1 x 6 rm 2,5</td>
<td>2,5 kV</td>
<td>9</td>
<td>2,5</td>
<td>1,8</td>
<td>13,0</td>
<td>92</td>
<td>250</td>
</tr>
<tr>
<td>1 x 6 re 4</td>
<td>2,5 kV</td>
<td>9</td>
<td>2,5</td>
<td>1,8</td>
<td>12,5</td>
<td>105</td>
<td>255</td>
</tr>
<tr>
<td>1 x 6 rm 4</td>
<td>2,5 kV</td>
<td>9</td>
<td>2,5</td>
<td>1,8</td>
<td>13,0</td>
<td>108</td>
<td>265</td>
</tr>
<tr>
<td>1 x 6 re 2,5</td>
<td>3 kV</td>
<td>11</td>
<td>3</td>
<td>1,8</td>
<td>13,5</td>
<td>90</td>
<td>265</td>
</tr>
<tr>
<td>1 x 6 rm 2,5</td>
<td>3 kV</td>
<td>11</td>
<td>3</td>
<td>1,8</td>
<td>14,0</td>
<td>92</td>
<td>280</td>
</tr>
<tr>
<td>1 x 6 re 4</td>
<td>3 kV</td>
<td>11</td>
<td>3</td>
<td>1,8</td>
<td>13,5</td>
<td>107</td>
<td>285</td>
</tr>
<tr>
<td>1 x 6 rm 4</td>
<td>3 kV</td>
<td>11</td>
<td>3</td>
<td>1,8</td>
<td>14,0</td>
<td>108</td>
<td>295</td>
</tr>
<tr>
<td>1 x 6 re 6</td>
<td>3 kV</td>
<td>11</td>
<td>3</td>
<td>1,8</td>
<td>13,5</td>
<td>122</td>
<td>300</td>
</tr>
<tr>
<td>1 x 6 rm 6</td>
<td>3 kV</td>
<td>11</td>
<td>3</td>
<td>1,8</td>
<td>14,0</td>
<td>124</td>
<td>310</td>
</tr>
<tr>
<td>1 x 6 re 4</td>
<td>5 kV</td>
<td>15</td>
<td>4,5</td>
<td>1,8</td>
<td>17,0</td>
<td>116</td>
<td>395</td>
</tr>
<tr>
<td>1 x 6 rm 4</td>
<td>5 kV</td>
<td>15</td>
<td>4,5</td>
<td>1,8</td>
<td>17,5</td>
<td>120</td>
<td>410</td>
</tr>
<tr>
<td>1 x 6 re 6</td>
<td>5 kV</td>
<td>15</td>
<td>4,5</td>
<td>1,8</td>
<td>17,0</td>
<td>130</td>
<td>410</td>
</tr>
<tr>
<td>1 x 6 rm 6</td>
<td>5 kV</td>
<td>15</td>
<td>4,5</td>
<td>1,8</td>
<td>17,5</td>
<td>143</td>
<td>435</td>
</tr>
</tbody>
</table>

re : round solid copper conductor IEC 60228 class 1
rm : round stranded copper conductor IEC 60228 class 2

Laying conditions

Pulling force: max. 300 N applied on the conductor
Bending radius: min. 12*D (D=outer diameter)

Temperature: min -5 °C to max. +50 °C

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

Type B - unscreened  5 kV (SRN)

Reference standard :
FAA AC 150/5345-7F

Construction
1. Stranded tinned copper conductor
2. EPR Insulation
3. CPE (polychloroprene) 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: 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

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Conductor assembly</th>
<th>Insulation thickness</th>
<th>Sheath thickness</th>
<th>Overall diameter</th>
<th>Weight kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 6 mm² (1)</td>
<td>7-stranded</td>
<td>2,3</td>
<td>1,2</td>
<td>10,0</td>
<td>150</td>
</tr>
<tr>
<td>1 x AWG 8</td>
<td>7-stranded</td>
<td>2,3</td>
<td>1,2</td>
<td>10,5</td>
<td>178</td>
</tr>
</tbody>
</table>

Electrical characteristics

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Conductor resistance (2)</th>
<th>Voltage test (in water) (2)</th>
<th>Insulation resistance (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ω/km @ 20 °C</td>
<td>kVdc -min.</td>
<td>MΩ.km @ 15,6 °C</td>
</tr>
<tr>
<td>1 x 6 mm² (1)</td>
<td>&lt;3,11</td>
<td>35 - 5</td>
<td>&gt;2435 (3)</td>
</tr>
<tr>
<td>1 x AWG 8</td>
<td>&lt;2,18</td>
<td>35 - 5</td>
<td>&gt;2265 (3)</td>
</tr>
</tbody>
</table>

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

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FAA-L-824  Underground primary cable for Airport lighting circuits
Type B - copper tape screened  5 kV  (SRC7N)

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 (polychloroprene) 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 mm²) x 50 N/mm² applied on the conductor
- Min. laying temperature: -10 °C

Dimensions

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Conductor assembly</th>
<th>Insulation thickness 0,08 x 22</th>
<th>Screen thickness 1,2 mm</th>
<th>Sheath thickness 1,2 mm</th>
<th>Overall diameter 11,1-11,7 mm</th>
<th>Weight 194-225 kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 6 mm²</td>
<td>7-stranded</td>
<td>2,3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 x AWG 8</td>
<td>7-stranded</td>
<td>2,3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Electrical characteristics

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Conductor resistance(Ω/km @ 20 °C)</th>
<th>Voltage test(kVdc -min.)</th>
<th>Insulation resistance(MΩ.km @ 15,6 °C)</th>
<th>Partial discharge(pC @ 4 kV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 6 mm²</td>
<td>&lt;3,11</td>
<td>35 - 15</td>
<td>&gt;2220 (k)</td>
<td>≤ 5</td>
</tr>
<tr>
<td>1 x AWG 8</td>
<td>&lt;2,18</td>
<td>35 - 15</td>
<td>&gt;2060 (k)</td>
<td>≤ 5</td>
</tr>
</tbody>
</table>

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

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

TPE insulated cable  5 kV (XCP)

acc. to customer & manufacturer specification

Construction

1. Stranded copper conductor
2. TPE Santoprene insulation- black

Properties

- Abrasion resistant
- Oil resistant
- UV resistant
- Deicer resistant (FR/KAc)
- Service temperature: -40 ... +90 °C
- Min. bending radius: 5x outer diameter
- Max. pulling force: copper cross-section (in mm$^2$) x 50 N/mm$^2$
- Min. laying temperature: -5 °C

Dimensions

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Conductor assembly</th>
<th>Insulation thickness</th>
<th>Overall diameter</th>
<th>Weight kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x AWG 8</td>
<td>19-stranded</td>
<td>2,8</td>
<td>9,4</td>
<td>134</td>
</tr>
</tbody>
</table>

Electrical characteristics

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Conductor resistance$^{(1)}$ Ω/km @ 20 °C</th>
<th>Voltage test (in water)$^{(1)}$ kV$_{dc}$ min.</th>
<th>Insulation resistance$^{(3)}$ MΩ.km @ 15,6 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x AWG 8</td>
<td>&lt;2,10</td>
<td>35 - 5</td>
<td>2398</td>
</tr>
</tbody>
</table>

$^{(1)}$ routine test

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FAA-L-824 Underground secondary cables for Airport lighting circuits

Reference standard:
EN 50525-2-21 (H07 RN-F) similar in design to FAA AC 150/5345-7F - Type B - 600 V

Construction
1. Flexible copper conductor, cl. 5
2. EPR insulation coloured blue/brown
3. CPE (chlorinated polyethylene, cross-linked, heavy duty) outer sheath - black

Properties
• Abrasion resistant
• Oil resistant
• UV resistant
• Deicer resistant (FR/KAc)
• Optional: improved anti-termite behaviour
• Service temperature: -40 ... +60 °C
• Max. conductor temperature: +90 °C
• Min. bending radius: 5x outer diameter
• Max. pulling force: total copper cross-section x 15 N/mm²
• Min. laying temperature: -25 °C
• Up to 1000 V for fix installation

Dimensions

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Conductor assembly</th>
<th>Insulation thickness</th>
<th>Sheath thickness</th>
<th>Overall diameter</th>
<th>Weight kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x 2,5 mm²</td>
<td>flexible cl.5</td>
<td>0,9</td>
<td>1,7</td>
<td>11,0</td>
<td>167</td>
</tr>
<tr>
<td>2 x 4 mm²</td>
<td>flexible cl.5</td>
<td>1,0</td>
<td>1,8</td>
<td>12,6</td>
<td>228</td>
</tr>
<tr>
<td>2 x 6 mm²</td>
<td>flexible cl.5</td>
<td>1,0</td>
<td>2,0</td>
<td>14,2</td>
<td>300</td>
</tr>
</tbody>
</table>

Electrical characteristics

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Conductor resistance Ω/km @ 20 °C</th>
<th>Voltage test kVac -min.</th>
<th>Insulation resistance MΩ.km @ 15,6 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x 2,5 mm²</td>
<td>≤7,98</td>
<td>3,5 - 5</td>
<td>&gt;850°</td>
</tr>
<tr>
<td>2 x 4 mm²</td>
<td>≤4,95</td>
<td>3,5 - 5</td>
<td>&gt;780°</td>
</tr>
<tr>
<td>2 x 6 mm²</td>
<td>≤3,30</td>
<td>3,5 - 5</td>
<td>&gt;660°</td>
</tr>
</tbody>
</table>

* Kᵢ=10000 MΩ . 1000 ft

All information given is indicative only and not binding and can be subject to change without notice.
**APC - Airport Pavement Cable 0.6 kV**

According to manufacturer’s standard

**Construction**

1. Stranded copper conductor
2. PVC insulation (85 °C) - colourless
3. Polyamid (nylon) outer sheath, melting point 185 °C - black

**Properties**

- Abrasion resistant
- Oil resistant
- UV resistant
- Deicer resistant (FR/KAc)
- Service temperature: -25 ... +85 °C
- Min. bending radius: 5x outer diameter
- Max. pulling force: total copper cross-section x 50 N/mm²
- Min. laying temperature: -5 °C
- May be laid directly into asphalt (temperature resistance of sheath: max. 170 °C / 5h)

**Dimensions**

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Conductor assembly</th>
<th>Insulation thickness</th>
<th>Sheath thickness</th>
<th>Overall diameter</th>
<th>Weight kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td></td>
</tr>
<tr>
<td>1 x AWG 12</td>
<td>7-stranded</td>
<td>0.6</td>
<td>0.15</td>
<td>3.8</td>
<td>41</td>
</tr>
<tr>
<td>1 x AWG 10</td>
<td>7-stranded</td>
<td>0.8</td>
<td>0.15</td>
<td>4.9</td>
<td>66</td>
</tr>
<tr>
<td>1 x 4 mm²</td>
<td>7-stranded</td>
<td>0.6</td>
<td>0.15</td>
<td>4.1</td>
<td>48</td>
</tr>
</tbody>
</table>

**Electrical characteristics**

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Conductor resistance (\Omega/km) @ 20 °C</th>
<th>Voltage test (in water) (kV_{ac min.})</th>
<th>Insulation resistance (M\Omega.km) @ 15.6 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(&lt;5.34)</td>
<td>(3 - 5)</td>
<td>(&gt;111)</td>
</tr>
<tr>
<td>1 x AWG 12</td>
<td>(&lt;3.34)</td>
<td>(3 - 5)</td>
<td>(&gt;113)</td>
</tr>
<tr>
<td>1 x 4 mm²</td>
<td>(&lt;4.61)</td>
<td>(3 - 5)</td>
<td>(&gt;100)</td>
</tr>
</tbody>
</table>

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Secondary Cable
TPE insulated & sheathed cable 600 V (TPE/TPE)
according to customer & manufacturer specification

Construction
1. Stranded copper conductor
2. TPE Santoprene insulation black/white
3. PVC filling sheath
4. TPE Santoprene outer sheath

Properties
- Abrasion resistant
- Oil resistant
- UV resistant
- Deicer resistant (FR/KAc)
- Service temperature: -40 ... +90 °C
- Min. bending radius: 5x outer diameter
- Max. pulling force: total copper cross-section x 50 N/mm²
- Min. laying temperature: -5 °C

Dimensions

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Conductor assembly</th>
<th>Insulation thickness</th>
<th>Sheath thickness</th>
<th>Overall diameter</th>
<th>Weight kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x AWG 12</td>
<td>7-stranded</td>
<td>0,76</td>
<td>1,0</td>
<td>10,5</td>
<td>166</td>
</tr>
</tbody>
</table>

Electrical characteristics

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Conductor resistance Ω/km @ 20 °C</th>
<th>Voltage test kV ac min.</th>
<th>Insulation resistance MΩ.km @ 15,6 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x AWG 12</td>
<td>&lt;5,34</td>
<td>3,5 - 5</td>
<td>&gt;656</td>
</tr>
</tbody>
</table>

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BLZ - Airport Flashlight Cable
according to manufacturer specification

Construction
1. Flexible tinned copper conductor, cl. 5
2. EPR insulation
   Cabling: 2 x 4 mm² (brown/grey)
   + 4 x 0,75 (black 1 / black 2 / blue / gr/ye)
3. EPR inner sheath
4. Copper tape screen, helically applied, 30% overlapped
5. CPE outer sheath

Properties
- Abrasion resistant
- Oil resistant
- UV resistant
- Deicer resistant (FR/KAc)
- Service temperature: -40 ... +60 °C
- Min. bending radius: 12x outer diameter
- Max. pulling force: total copper cross-section x 50 N/mm²
- Min. laying temperature: -5 °C

Dimensions

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Conductor assembly</th>
<th>Insulation thickness</th>
<th>Inner sheath thickness</th>
<th>Screen tape thickness</th>
<th>Outer sheath thickness</th>
<th>Overall diameter</th>
<th>Weight kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm²</td>
<td></td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td></td>
</tr>
<tr>
<td>2 x 4 +</td>
<td>flexible cl. 5</td>
<td>1,3</td>
<td>1,2</td>
<td>0,08 x 22</td>
<td>2,00</td>
<td>19,4</td>
<td>513</td>
</tr>
<tr>
<td>4 x 0,75</td>
<td>flexible cl. 5</td>
<td>1,0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Electrical characteristics

<table>
<thead>
<tr>
<th>Cross-section</th>
<th>Voltage range</th>
<th>Conductor resistance</th>
<th>Voltage test</th>
<th>Insulation resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm²</td>
<td>V</td>
<td>Ω/km @ 20 °C</td>
<td>kv ac -min.</td>
<td>MΩ.km</td>
</tr>
<tr>
<td>2 x 4 +</td>
<td>2500</td>
<td>&lt;5,09</td>
<td>8,3 - 5</td>
<td>&gt;10</td>
</tr>
<tr>
<td>4 x 0,75</td>
<td>400</td>
<td>&lt;26,7</td>
<td>2 - 5</td>
<td></td>
</tr>
</tbody>
</table>

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Accessories
Connector kit FAA L-823 (CKE 52)

Reference standard:
FAA AC 150/5345-26C, Type 1 (5 kV; 25 Amp.), Class B (field mounted)

Application

• Field mounted and resin filled plug and receptacle for primary cables acc. to FAA AC 150/5345-7 (L-824) up to 5 kV
• Suitable for conductor cross-section 6 mm² and AWG 8
• Suitable for unscreened and screened cables (tape or braid-screened)
• Easy and safe installation (detailed installation instruction in each packing unit)
• Oil resistant
• Deicer resistant (FR/KAc)
• Compatible with the Eupen stripping tool

Mechanical & electrical type tested acc. to the reference standard
Accessories
Junction box PC2-A
For primary airfield lighting cable L-824

Application

- Resin filled junction box for primary cables acc. to FAA AC 150/5345-7 (L-824) up to 5 kV
- Suitable for conductor cross-section 6 mm² and AWG 8
- Suitable for unscreened and screened cables (tape or braid-screened)
- Easy and safe installation (detailed installation instruction in each packing unit)
- Oil resistant
- Deicer resistant (FR/KAc)
- Accessible screen connection outside the junction box
- Compatible with the Eupen stripping tool
Accessories

Junction box PC2-B

For primary airfield lighting cable L-824

Application

- Resin filled junction box for primary cables acc. to FAA AC 150/5345-7 (L-824) up to 5 kV
- Suitable for conductor cross-section 6 mm² and AWG 8
- Suitable for unscreened and screened cables (tape or braid-screened)
- Easy and safe installation (detailed installation instruction in each packing unit)
- Oil resistant
- Deicer resistant (FR/KAc)
- Permanent screen connection inside the junction box
- Compatible with the Eupen stripping tool
Accessories
Heat shrink splice

For primary airfield lighting cable L-824

Application

- Heat shrink splice for primary cables acc. to FAA AC 150/5345-7 (L-824) up to 5 kV
- Suitable for conductor cross-section 6 mm² and AWG 8
- Suitable for unscreened and screened cables (tape or braid-screened)
- Easy and safe installation (detailed installation instruction in each packing unit)
- Oil resistant
- Deicer resistant (FR/KAc)
- Compatible with the Eupen stripping tool
Accessories

Stripping tool for A.L.C. primary cables Type C acc. to FAA-AC 150/5345-7

Application

- Stripping tool for the outer jacket and insulation
- Available for conductor cross sections 6mm² and 8AWG see table below
- Available for outer diameter from 12 - 16mm see table below
- Available for screened cables (tape or braid-screened) see table below
- Safe and easy to use (detailed user guide available)

<table>
<thead>
<tr>
<th>Cable diameter</th>
<th>Cross section</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>12,0 mm-0,2/+0,8</td>
<td>A.L.C Type C 5000 V</td>
<td>6 mm²</td>
</tr>
<tr>
<td>12,8 mm-0,2/+0,8</td>
<td>A.L.C Type C 5000 V</td>
<td>6 mm²</td>
</tr>
<tr>
<td>15,8 mm-0,3/+0,7</td>
<td>A.L.C Type C 5000 V</td>
<td>6 mm²</td>
</tr>
<tr>
<td>12,4 mm-0,2/+0,8</td>
<td>A.L.C Type C 5000 V</td>
<td>8AWG</td>
</tr>
<tr>
<td>13,2 mm-0,2/+0,8</td>
<td>A.L.C Type C 5000 V</td>
<td>8AWG</td>
</tr>
</tbody>
</table>