Helically wrapped 5 mil copper tape with 25% overlap

Extruded semi-conducting thermosetting polymeric layer

No-lead EPR (Ethylene Propylene Rubber)

Black PVC

100% - grounded system

Aluminum Interlocked Armour (AIA)

Class B compact stranded copper

Class B compact stranded copper

Aluminum Interlocked Armour (AIA)

Class B compact stranded copper

Class B - compact stranded -8000 Series Aluminum -ACM

Class B - compact stranded -8000 Series Aluminum -ACM

Tinning on copper conductors

Black  PVC

5617

105°C rated

2146

0.376

3000

562

1.606

mm

26.9

Approx. Overall Diameter

Max. Real Diameter / Width

Max. Real Length on Reel

Approx. Weight of Cable

Max. Reel Weight (cable only)

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Max. Reel W
HVTECK SPECIFICATIONS

HVTECK AL 1/C 345EPR TS LSZH AIA LSZH SOLONON® 35KV 100% CSA

DESIGN

Qualification Standards
- CSA C68.10 - Shielded Power Cables for Commercial and Industrial Applications - 5 to 46 kV
- CSA C68.3 - Shielded & Concentric Neutral Power Cable - 5 to 46 kV
- CSA C22.2 No. 174 - Cables in Hazardous Locations
- IEC68-6-2 (NEMA WC 74) 5 to 46 kV - Shielded Power Cable
- AEIC CS-6 - Qualification Testing Requirements

Flame Test Ratings
- FT1 - Flame Test - (1,706 BTU/Hr. nominal - Vertical Wire Flame Test)
- FT4, Flame Test - (70,000 BTU/Hr. - Vertical Tray Flame Test)
- IEEE 1202 - Flame Test - (70000 BTU/Hr. - Vertical Tray Test)
- IEEE 383 - Flame Test - (70000 BTU/Hr.)
- IEC 60335-2-9 Flame Test, (210,000 BTU/Hour)
- CSA ST1 Smoke Test - marked FT4-ST1

Product Ratings
- CSA C22.2 No. 2568 & No. 0.3. - Wire and Cable Test Methods
- CSA LTDD - 25°C - as per C68.10 - for Cold Bend and Impact rating
- CSA HL - for Hazardous Locations rating
- CSA FT4 - for Flame Retardancy rating
- CSA SUN RES - for Sunlight Resistant rating

Operating Temperatures
- -25°C - CSA Cold Bend and Impact Temperature
- 10°C - Min. Installation Temperature
- 105°C - Max. Continuous Operating Temperature
- 140°C for Emergency Overload Temperature
- 250°C for Short Circuit Temperature

TABLE 2 - ENGINEERING SPECIFICATIONS

<table>
<thead>
<tr>
<th>HVTECK Product Code</th>
<th>Maximum Pulling Tension</th>
<th>DC Resistance &gt; 25°C R2</th>
<th>AC Resistance &gt; 1/3C, 60Hz (triplex formation) RAC</th>
<th>Inductance L</th>
<th>Capacitance C</th>
<th>Inductive Reactance @ 60Hz (triplexed) XL</th>
<th>Capacitive Reactance @ 60Hz (triplexed) XC</th>
<th>Positive - Sequence Impedance</th>
<th>Zero - Sequence Impedance</th>
<th>Short Circuit Current (each phase conducted) @ 60Hz</th>
<th>Allowable Ampacities in Ventilated Cable</th>
<th>Allowable Ampacities Directly Buried in Earth</th>
</tr>
</thead>
<tbody>
<tr>
<td>AL345N12-010</td>
<td>634</td>
<td>0.168</td>
<td>0.551</td>
<td>0.211</td>
<td>0.693</td>
<td>0.1274</td>
<td>0.4180</td>
<td>0.0429</td>
<td>0.1408</td>
<td>0.0497</td>
<td>0.0188</td>
<td>0.212 + j0.095</td>
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<tr>
<td>AL345N12-020</td>
<td>799</td>
<td>0.133</td>
<td>0.436</td>
<td>0.167</td>
<td>0.549</td>
<td>0.1228</td>
<td>0.4029</td>
<td>0.0459</td>
<td>0.1507</td>
<td>0.0577</td>
<td>0.176</td>
<td>0.168 + j0.058</td>
</tr>
<tr>
<td>AL345N12-030</td>
<td>1007</td>
<td>0.105</td>
<td>0.345</td>
<td>0.132</td>
<td>0.433</td>
<td>0.1187</td>
<td>0.3677</td>
<td>0.0494</td>
<td>0.1622</td>
<td>0.0537</td>
<td>0.164</td>
<td>0.133 + j0.055</td>
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<tr>
<td>AL345N12-040</td>
<td>1270</td>
<td>0.084</td>
<td>0.274</td>
<td>0.105</td>
<td>0.345</td>
<td>0.1136</td>
<td>0.3374</td>
<td>0.0494</td>
<td>0.1622</td>
<td>0.0537</td>
<td>0.164</td>
<td>0.133 + j0.055</td>
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<tr>
<td>AL345N12-250</td>
<td>1500</td>
<td>0.072</td>
<td>0.232</td>
<td>0.089</td>
<td>0.292</td>
<td>0.1110</td>
<td>0.3643</td>
<td>0.0560</td>
<td>0.1833</td>
<td>0.0419</td>
<td>0.1374</td>
<td>0.0473</td>
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<tr>
<td>AL345N12-500</td>
<td>3000</td>
<td>0.051</td>
<td>0.168</td>
<td>0.084</td>
<td>0.209</td>
<td>0.1052</td>
<td>0.3452</td>
<td>0.0623</td>
<td>0.2063</td>
<td>0.0397</td>
<td>0.1302</td>
<td>0.0422</td>
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<tr>
<td>AL345N12-750</td>
<td>4520</td>
<td>0.024</td>
<td>0.077</td>
<td>0.030</td>
<td>0.098</td>
<td>0.0939</td>
<td>0.3081</td>
<td>0.0825</td>
<td>0.2705</td>
<td>0.0354</td>
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<td>AL345N12-1000</td>
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<td>0.018</td>
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<td>0.075</td>
<td>0.0889</td>
<td>0.2948</td>
<td>0.0928</td>
<td>0.3045</td>
<td>0.0398</td>
<td>0.1111</td>
<td>0.0286</td>
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</tbody>
</table>

* Calculations are based on three cables triplexed / 5 mil 25% over lapping copper tape shield / Conductor temperature of 90°C / Shield temperature of 45°C / Earth resistivity of 100 ohms-meter
1 Amperages are based on Table D17M of the 2015 Canadian Electrical Code Part I (40°C Ambient Air Temperature, indoor installation)
2 Amperages are based on Table D17A of the 2015 Canadian Electrical Code Part I

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