U3-TYPE (LOCAFLEX 100KV)
100 kVDC rated High Voltage Cable

FEATURES
- Low capacitance.
- High flexibility.
- Small diameter.
- 95% shielding braid coverage.
- RoHS & REACH compliant.

DESCRIPTION
This 3-conductor, rubber insulated high voltage cable's typical applications are:

- Medical X-ray equipment like standard X-ray, computed tomography and angiography equipment.
- Industrial and scientific X-ray or electron beam equipment like electron microscopy and X-ray diffraction equipment.
- Low power high voltage test- and measuring equipment.
**Technical Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of conductors</td>
<td>3</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>100 kVDC</td>
</tr>
<tr>
<td>Routine test voltage (high voltage insulation)</td>
<td>160 kVDC / 10min</td>
</tr>
<tr>
<td>Rated voltage (conductor insulation)</td>
<td>750 VACrms / 1000 VDC</td>
</tr>
<tr>
<td>Maximum conductor current</td>
<td>1.8 mm²: 17 A; 1.25 mm²: 14 A</td>
</tr>
<tr>
<td>Nominal outside diameter</td>
<td>20.0 mm ±0.6 mm / 0.787 in ±0.024 in</td>
</tr>
<tr>
<td>Insulation resistance core to shield @20°C</td>
<td>~5×10⁻¹² Ω·m / ~15×10⁻¹² Ω·ft</td>
</tr>
<tr>
<td>Conductor resistance bare cond. @20°C</td>
<td>7 mΩ/m / 2.1 mΩ/ft ±5%</td>
</tr>
<tr>
<td>Conductor resistance insul. cond. @20°C</td>
<td>10 mΩ/m / 3.1 mΩ/ft ±5%</td>
</tr>
<tr>
<td>Capacitance between cond. and shield</td>
<td>136 pF/m / 42 pF/ft ±10%</td>
</tr>
<tr>
<td>Cable min. bending radius (static installation)</td>
<td>40 mm / 1.57 in</td>
</tr>
<tr>
<td>Cable min. bending radius (dynamic install.)</td>
<td>80 mm / 3.15 in</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-10/70°C / -14/158°F</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-40/70°C / -40/158°F</td>
</tr>
<tr>
<td>Net weight</td>
<td>515 kg/km</td>
</tr>
</tbody>
</table>

**CONSTRUCTION U3-TYPE CABLE**

(Illustration is not to scale)

- Red and white ETFE insulated conductors, 1.8mm² (19 x Ø0.35 mm), stranded tinned copper wires.
- Fillers.
- Bare conductor, 2.5mm² (2 x 50 x Ø0.38 mm), stranded tinned copper wires.
- Semi-conducting tape.
- High voltage insulation, EP rubber, black.
- Semi-conducting tape.
- Shielding braid, 95% coverage, tinned copper wires.
- PVC jacket, color: light gray.

**MORE INFORMATION**

Varex Imaging Corporation is a leading innovator, designer and manufacturer of X-ray imaging components, which includes tubes, digital flat panel detectors and other image processing solutions, which are key components of X-ray imaging systems.

For more information, please contact a Varex Imaging sales representative in your territory. Contact details are available at www.vareximaging.com/contact-information.

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