Flame Retardant Instrumentation Cables (Multicore)

RE-YYSWBY PVC insulated without screen PVC sheath with steel wire braid armour protection

RE-Y(St)YSWBY PVC insulated Overall screen PVC sheath with steel wire braid armour protection

**APPLICATION**

The PVC versions (Part 1 Type 1&2) are generally use for indoor installation and suitable for wet and damp areas. Generally used within industrial process manufacturing plants for communication, data and voice transmission signals and services.

**STANDARDS**

Basic design adapted to BS 5308 Part1 Type 1 & 2

**FIRE PERFORMANCE**

<table>
<thead>
<tr>
<th>Flame Retardance (Single Vertical Wire Test)**</th>
<th>EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2; VDE 0482-332-1; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); CEI 20-35/1-2; EN 50265-2-1*; DIN VDE 0482-265-2-1*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reduced Fire Propagation (Vertically-mounted bundled wires &amp; cable test)**</td>
<td>EN 60332-3-24 (cat. C); IEC 60332-3-24; BS EN 60332-3-24; VDE 0482-332-3; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); CEI 20-22/3-4; EN 50266-2-4*; DIN VDE 0482-266-2-4</td>
</tr>
</tbody>
</table>

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

**VOLTAGE RATING**

300/500V

**CABLE CONSTRUCTION**

Conductor: Plain annealed copper wire, stranded according to IEC(EN) 60228 class 2 and 5.
Insulation: PVC compound
Overall Screen: Aluminium/polyester tape with 0.5mm² screen (7/0.3mm) tinned copper drain wire.
Inner Sheath: PVC compound
Armouring: Galvanised steel wire Braid
Outer Sheath: Thermoplastic PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

COLOUR CODE

Insulation Colour: See technical information
Outer sheath: Black

PHYSICAL AND THERMAL PROPERTIES

Temperature range during operation: Max. 90°C for PVC
250°C in short-circuit for 5secs max.

Minimum bending radius (Fixing installation): 8 x Overall Diameter

CONSTRUCTION PARAMETERS

<table>
<thead>
<tr>
<th>No. of Core X Cross Section</th>
<th>Nom. Diameter of Strands</th>
<th>Nom. Insulation Thickness</th>
<th>Armour Diameter Under Armour</th>
<th>Armour Wire Diameter</th>
<th>Nom. Overall Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm²</td>
<td>No./mm/mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>3x1.5</td>
<td>7/0.53</td>
<td>0.6</td>
<td>8.9</td>
<td>0.20</td>
<td>12.5</td>
</tr>
<tr>
<td>24x1.0</td>
<td>32/0.20</td>
<td>0.6</td>
<td>17.9</td>
<td>0.20</td>
<td>22.5</td>
</tr>
</tbody>
</table>

Note: Other conductor sizes & core configurations are available upon request.