Specifications

Conductors: Bare soft annealed copper, Class B, 7-strand concentric per ASTM B-8.
Insulation: Flame-retardant Okoseal® (PVC) per UL 13 and 2250, 15 mils nominal thickness, 105°C temperature rating.
Conductor Identification: Pigmented black and white in pairs, black, red and white in triads; white conductor numerically printed for group identification.
Communications Wire: 22 AWG, solid, bare copper conductor, 12 mils nominal flame-retardant Okoseal insulation, 105°C rating.
Assembly: Pairs or triads assembled with left-hand lay. Flame-retardant, non-wicking fillers included where required to provide a round cable.
Cable Shield: Aluminum/Polyester tape overlapped to provide 100% coverage, and a 7-strand tinned copper drain wire, same size as conductor.
Jacket: Black, flame-retardant, low temperature Okoseal per UL 13 and 2250. A rip cord is laid longitudinally under the jacket to facilitate removal.
Classifications: UL Listed as ITC/PLTC - Instrument Tray Cable/Power Limited Tray Cable for use in accordance with Article 727 and Article 725 of the National Electrical Code. Cables comply with UL 2250 and UL 13 for PLTC, CL2 and CL3.

Applications

Okonite® Type P-OS (Pairs/triads - Overall Shield) instrumentation cables are designed for use as instrumentation, process control in ITC non-classified or labeled circuits up to 150 volts and 5 amps (750VA) and in Class 2 or 3 Power-Limited circuits where shielding against external interference is required, but shielding against interference among groups is not required; indoors or outdoors in wet or dry locations with conductor operating temperatures up to 105°C; in cable trays; in raceways; supported by a messenger wire; under raised floors. Suitable Class I, Division 2, Class II, Division 2, or Class III, Division 2 hazardous locations. Also for use as Power-Limited fire protective signaling cable (FPL) per NEC Code 760.

The overall shield eliminates most of the static interference from the electric field radiated by power cables and other electrical equipment. For dc service in wet locations X-Olene® insulation is recommended.
### Type P-OS
Type ITC/PLTC Instrumentation Cable

Multiple Pairs or Triads - Overall Shield 300V - 105°C Rating
For Cable Tray Use

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Strand Size (AWG)</th>
<th>Insulation Thickness</th>
<th>Number of Pairs</th>
<th>Diameter of Jacket</th>
<th>Thickness of Sheath, mils</th>
<th>Nominal Cable O.D., inches</th>
<th>Cross-Sectional Area (in²)</th>
<th>Approx. Net Weight (lb/1000 ft)</th>
<th>Approx. Ship Weight (lb/1000 ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>264-10-2202</td>
<td>20</td>
<td>0.35</td>
<td>40</td>
<td>0.10</td>
<td>56</td>
<td>67</td>
<td>10,000 Megohms</td>
<td>1500 Volts ac for 15 sec.</td>
<td>44</td>
</tr>
<tr>
<td>264-10-2204</td>
<td>20</td>
<td>0.37</td>
<td>40</td>
<td>0.12</td>
<td>79</td>
<td>102</td>
<td>1500 Volts ac for 15 sec.</td>
<td>18 AWG</td>
<td>41</td>
</tr>
<tr>
<td>264-10-2206</td>
<td>20</td>
<td>0.45</td>
<td>40</td>
<td>0.16</td>
<td>114</td>
<td>137</td>
<td>1500 Volts ac for 15 sec.</td>
<td>16 AWG</td>
<td>44</td>
</tr>
</tbody>
</table>

#### ELECTRICAL SPECIFICATIONS

- **Conductor Resistance**: nominal...10,000 ohms/1000 ft. @ 20°C
- **Dielectric Test Voltage**: 1500 Volts ac for 15 sec.
- **Insulation Test Voltage (spark test)**: 5000 Volts ac
- **Insulation Resistance Constant @60°F, minimum**: 10,000 Megohms-1000 ft.
- **Loop Resistance, nominal (2 conductor):** ohms-1000 ft. @ 20°C
- **Mutual Capacitance (PF/ft)**:

#### Typical Value

**Product Data**
Section 5: Sheet 9

**THE OKONITE COMPANY**
Ramsey, New Jersey 07446

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*Cross-sectional area for calculation of cable tray fill in accordance with NEC Section 318-8

**Length Tolerance**: Cut lengths of 1000 feet or more may be purchased in lengths of 10%, less than 1000 feet 10%. A tolerance of ±10% is permitted.