Type P-OS
Type ITC/PLTC Thermocouple Extension Cable
Single Pair - Overall Shield - 105°C Rating
For Cable Tray Use

Specifications
Conductors: Solid alloys per ANSI MC 96.1
Insulation: Flame-retardant Okoseal® (PVC) per UL Standard 13 and 2250, 15 mils nominal thickness, 105°C temperature rating.
Conductor Identification: Pigmented insulation on individual conductors.
Assembly: Pair assembled with left-hand lay.
Cable Shield: Aluminum/Polyester tape overlapped to provide 100% coverage, and a 7-strand tinned copper drain wire, same size as conductor.
Jacket: Flame-retardant, low temperature Okoseal per UL Standard 13 and 2250. A rip cord is laid longitudinally under the jacket to facilitate removal.
Classifications: UL Listed as Type ITC/PLTC - Instrumentation Tray Cable/Power Limited Tray Cable, for use in accordance with Article 727 and 725 of the National Electrical Code. Cables comply with UL 2250 and UL Subject 13 for PLTC, CL2 and CL3.

Applications
Okonite Type P-OS (Pair/triad - Overall Shield) thermocouple extension cables are designed for use as instrumentation and process control cables in ITC non-classified or labeled circuits up to 150 volts and 5 amps (750VA) and in Class 2 of 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; for direct burial. Suitable Class I, Division 2, Class II, Division 2, or Class III, Division 2 hazardous locations.

Product Features
- Passes the UL 1581 & IEEE 383-1974 vertical tray flame tests.
- Sunlight resistant & oil resistant.
- UL listed for direct burial.
- Individual pairs or triads are color coded for simplified hook-up.
- Good noise rejection.
- Excellent weathering characteristics.
- OSHA Acceptable.
- Flexible, easy to handle terminate.
- Twisted with 100% shield coverage to reduce electromagnetic noise.
- Suitable for low temperature installation of -40°C.

A Solid Thermocouple Alloy Conductor
B Okoseal Insulation
C Twisted Pair/Triad
D Tinned Stranded Copper Drain Wire
E Aluminum/Polyester Tape
F Rip Cord
G Okoseal Jacket
Type P-OS
Type ITC/PLTC Thermocouple Extension Cable
Single Pair - Overall Shield - 105°C Rating
For Cable Tray Use

Conductors: 16 AWG
Okoseal Insulation: 15 mils

<table>
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<tr>
<th>ASA/ISA Type</th>
<th>Catalog Number</th>
<th>Number of Pairs</th>
<th>Jacket Thickness (mils)</th>
<th>Nominal Cable O.D. (in.)</th>
<th>Cross-Sectional Area T (sq in)</th>
<th>Approx Net Weight (lbs/1000')</th>
<th>Approx Ship Weight (lbs/1000')</th>
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ASA/ISA COLOR CODE AND LIMITS OF ERROR

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<tr>
<th>ASA/ISA Type</th>
<th>Positive Wire</th>
<th>Negative Wire</th>
<th>Outer Jacket Color</th>
<th>Temperature Range°C</th>
<th>Limits of Error</th>
<th>Nom. Loop Resistance Per 100' @ 20°C</th>
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<td>Limits of Error</td>
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<td>Constantan</td>
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<td>Blue</td>
<td>Constantan</td>
<td>Red</td>
<td>Blue</td>
<td>± 1.0°C</td>
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</tbody>
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† Cross-sectional area for calculation of cable tray fill in accordance with NEC Section 392.22

▲ Authorized Stock Item: Available from our Customer Service Center.

SX available upon request.

(1) Special grade alloy conductors for JX and TX are available on special order.

ELECTRICAL SPECIFICATIONS
Per UL Standard 13 and 2260
Insulation Test Voltage (spark test)..............5000 Volts ac
Dielectric Test Voltage............................1500 Volts ac for 15 sec.
Shield Isolation Test
Pair to Cable Shield................................exceeds 100M ohms/1000 ft.
Insulation Resistance Constant @60°F minimum
(natural material typical value)...............2000 Megohms/1000 ft.