Specifications

Conductors: Bare soft annealed copper, Class B, 7-strand concentric per ASTM B-8.

Insulation & Jacket: Flame-retardant Okoseal® (PVC), 15 mils nominal thickness, nylon jacket, 4 mil nominal thickness, 90°C temperature rating, per UL Standard 1277.

Conductor Identification: Pigmented black and white in pairs, black, white and red in triads.

Assembly: Pair or triad 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: Black, flame-retardant, low temperature Okoseal per UL Standard 1277, 90°C temperature rating. A rip cord is laid longitudinally under the jacket to facilitate removal.

Classification: UL Listed as Type TC Article 336 of the National Electrical Code.

Applications

Okonite’s single pair or triad Type P-OS instrumentation cables are designed for use on Class 1 Remote-Control Signaling circuits or where a 600V cable is desired, as instrumentation, process control, or computer cable transmitting signals at levels above 100 milli-volts in circuits where shielding against external interference is required, but shielding against interference among groups is not required. For use indoors or outdoors; wet or dry locations; in cable trays; in raceways; supported by a messenger wire; in Class I, Division 2, Class II, Division 2 or Class III, Division 2 hazardous locations. Also for use as non power limited fire protective signaling cable (NPLF) per NEC Code 760. Type TC cables can be labeled Okomarine to be used in ABS and Coast Guard approved marine applications.
Okoseal-N Type P-OS
UL Type TC and cUL Type CIC Instrumentation Cable
Single Pair or Triad - Overall Shield
600V - 90°C Rating Wet or Dry

Okoseal Insulation: 15 mils
Nylon Jacket: 4 mils

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<tr>
<th>Catalog Number</th>
<th>Size AWG</th>
<th>Number of Pairs</th>
<th>Number of Triads</th>
<th>Jacket Thickness (mils)</th>
<th>Nominal Cable O.D. (in.)</th>
<th>Cross-Sectional Area (sq in)</th>
<th>Approx Net Weight (lbs/1000')</th>
<th>Approx Ship Weight (lbs/1000')</th>
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**ELECTRICAL SPECIFICATIONS**

*Per UL Standard 1277*

- **Conductor Resistance, maximum ohms/1000 ft.**
  - @20°C: 6.09-7.04
  - @25°C: 6.09-7.04
- **Insulation Test Voltage (spark test)**
  - 18-16 AWG: 6000 volts ac
  - 14 AWG: 7500 volts ac
- **Dielectric Test Voltage**
  - 18-16 AWG: 1500 volts ac for 1 minute
  - 14 AWG: 2000 volts ac for 1 minute
- **Shield Isolation Test**
  - Pair to Cable Shield: exceeds 100 Megohms/1000 ft.
  - Insulation Resistance Constant @60°F minimum
    - (natural material typical value): 2000 Ohms-1000 ft.
  - Loop Resistance, nominal (2 conductor/ohms-1000 ft)
    - @20°C: 12.18-14.08
    - @25°C: 12.18-14.08
- **Mutual Capacitance**
  - 18 AWG: 49 pF/ft
  - 16 AWG: 56 pF/ft
  - 14 AWG: 64 pF/ft
- **L/R ratio**
  - 18 AWG: 14 micro Henry/ohm
  - 16 AWG: 21 micro Henry/ohm
  - 14 AWG: 31 micro Henry/ohm
- **Inductance**
  - 18 AWG: 0.19 micro Henry/ft
  - 16 AWG: 0.18 micro Henry/ft
  - 14 AWG: 0.17 micro Henry/ft

† Cross-sectional area for calculation of cable tray fill in accordance with NEC Section 392-22

Length Tolerance: Cut lengths of 1000 feet or longer are subject to a tolerance of ±10%; less than 1000 feet ± 15%.

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