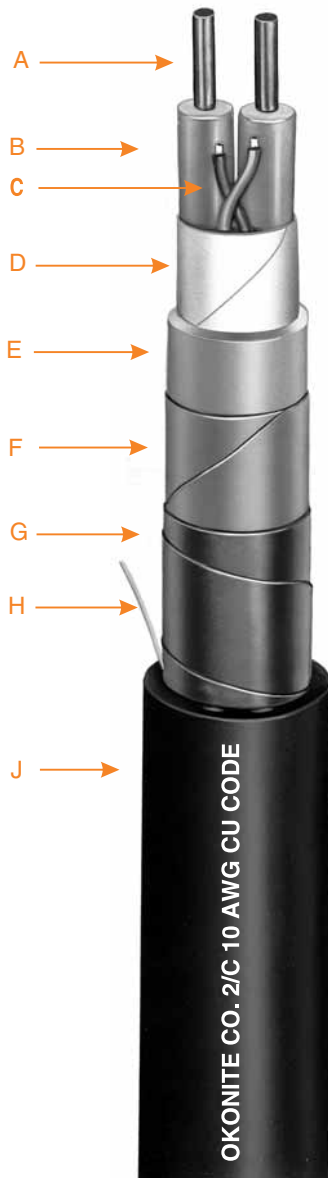




Centralized Traffic Control— Code Line Cable

With 2 Pairs of Communication Wires and PCF (Pull Cord Feature)
Aerial or Direct Burial

Two Copper Conductors



- A Uncoated, Solid Copper Conductors
- B Insulation—Okolene
- C Communication Pair
- D Polyester Tape
- E Okolene Belt
- F Polyester Tape
- G 5 mil Copper Shield
- H Pull Cord
- J Jacket—Okolene

Insulation

Okolene® (PE) is Okonite's trade name for its low loss polyethylene insulation. The two #10 AWG solid bare copper conductors, each insulated with Okolene, are twisted together to form a balanced pair. Two pairs of #16 AWG or #18 AWG communication wire with Okolene insulation are cabled into the interstices of the C.T.C. twisted pair. A polyester tape is wrapped over the assembly. A belt of Okolene is then extruded over the assembly.

Shield and Jacket

A polyester tape, 5 mil flat copper tape and 5/64" black Okolene jacket is applied over the belted core to complete the construction.

Applications

This C.T.C. cable is used on circuits where minimum attenuation and low capacity is essential. It is designed not only for code pulses but also provides for superimposed high frequency circuits. The two color coded twisted pairs are designed for communication circuit application. The cable is mechanically rugged and can be installed aerially or underground and is suitable for direct burial by means of a cable plow in all wet and dry locations.

Specifications

Conductors: Solid uncoated copper per ASTM B-3.

Insulation: Okolene® (PE) the dielectric meets or exceeds electrical and physical requirements of ASTM D-1248-84, Type I, Class A, Category 5, Grade E5.

Jacket: Okolene® (PE) meets or exceeds requirements of ASTM D-1248-84, Type I, Class C, Grade J3 and AREMA Signal Manual Part 10.3.21.

Product Features

- Mechanically rugged.
- Resistant to aging.
- Easy to install and maintain.
- Resistant to environmental hazards.
- Superior moisture resistance.
- Outstanding termite protection.
- Excellent electrical properties.. high dielectric strength, low capacity (SIC) and power factor and high insulation resistance.
- Two pairs of communication circuits are provided for telephone communications.
- Pull Cord feature affords easy and quick accessibility to conductors for splices and terminations. PCF is safety oriented.

Centralized Traffic Control— Code Line Cable

Product Data Section 7: Sheet 20

With 2 Pairs of Communication Wires
With PCF (Pull Cord Feature) Aerial or Direct Burial
Two Copper Conductors

Catalog Number	Size AWG	No. of Strands	No. Condrs.	Jacket Thickness-64th	Approx. O.D. Inches	Net Wt. Lbs./M'	Approx. Ship Wt. Lbs./M'
207-84-3990	10	Sol.	2	5	0.83	312	352
207-84-3991	9	Sol.	2	5	0.92	370	429

Engineering Data (Approximate Values)			
Characteristic Impedance: $Z_0 = 101$ ohms			
Electrical Characteristics at 20kHz:			
Size AWG	Attenuation db/mile	Mutual Capacitance $\mu\text{f}/\text{mile}$	Capacity Unbalance
10	0.69	0.080	3%
9	0.64	0.080	3%

Notes: These characteristics result in a smooth match with available equipment either direct or through matching impedance transformers. The attenuation value is low for the dollar investment and the balanced low capacity results in good quality operation.

Standard Package—1000' N.R. Reel.