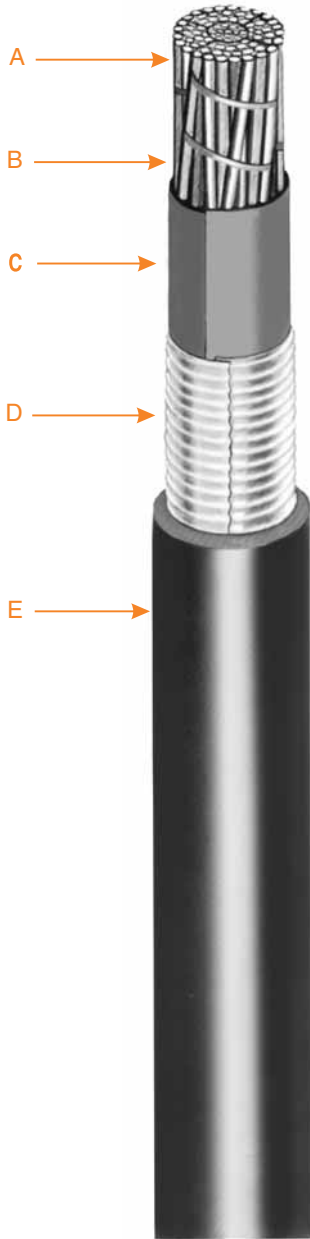




# Okonite® - Communication Cable for Transit Systems

Duct and Tunnel Installations for Transit Systems  
Low Smoke, Zero Halogen, Thermoplastic Jacket



- A Solid Uncoated Copper Conductor
- B Color Coded Thermoplastic Insulation
- C Non-Hygroscopic Core Tape
- D .005" Copper Shield
- E Okoclear-TP Jacket

### Construction

**Conductors:** 16, 19, and 22 AWG solid, uncoated copper wires.

**Insulation:** A thermoplastic compound, color coded per telephone industry standards.

**Core Assembly:** Insulated conductors are twisted into pairs with varying lengths of lay to minimize cross-talk. Pairs are oscillated into cable or units with identifying non-hygroscopic binders. Concentric/oscillated construction through 25 pairs and unit construction for larger cables. A non-hygroscopic core tape is applied over the cable core as a dielectric and heat barrier.

**Shield:** A .005" copper tape is longitudinally applied with an overlap and corrugated to increase flexibility.

**Jacket:** The black jacket is resistant to abrasion, moisture, weather and environmental cracking. It meets the requirements of ICEA S-73-532. The jacket is surface printed with year of manufacture, product description and sequential footage marks at two foot intervals.

### Applications

Low smoke, zero halogenated Okonite Communication Cables for transit systems are designed for use in aerial and tunnel installations where these features are desired. They are ideally suited for transit communications systems.

### Specifications

Manufactured to ICEA S-56-434.

### Product Features

- Color coded to telephone industry requirements.
- Excellent mechanical and electrical characteristics.
- 100% shielding.
- Highly resistant to abrasion, moisture, weather and environmental cracking.
- Low Smoke, non-halogenated construction.

### Electrical Characteristics

		22 AWG	19 AWG	16 AWG
<b>Conductor Resistance</b> — ohms/mile 68°F	nominal	85.5	42.5	21
	maximum	92.0	46.0	23
<b>Conductor Resistance</b> — ohms/loop mile	nominal	171	85	42
	maximum	184	92	46
<b>Insulation Resistance</b> — megohm miles	minimum	10,000	10,000	10,000
<b>Dielectric Strength</b> — Insulation capable of withstanding for 3 seconds dc voltage	— between conductors	3,600	4,500	6,000
	— between conductors and shield	10,000	10,000	1,000
<b>Attenuation</b> at 1000 Hz-db/loop mile		1.79	1.25	0.91
<b>Average Mutual Capacitance</b> µf/mile at 1000 Hz	Pairs 6 thru 17		.083 ±0.007	
	18 and over		.083 ±0.004	
<b>Capacitance Unbalance</b> —pf/1000 ft. Pair to Pair — R.M.S.	Maximum (individual)	12 or more	25	25
		Less than 12	100	100
Pair to Shield — R.M.S.	Maximum (individual)	12 or more	125	125
		Less than 12	250	250
<b>Crosstalk Loss</b> R.M.S. far end loss measured at 150 KHz	6 or more	not less than 73 db per 1,000 ft.		

**Okonite Type RTC**

Catalog Number	Size AWG	No. of Pairs	Jacket Thickness (mils)	Cable O.D.		Net Wt Lbs./M'	Ship. Wt. Lbs./M'	Strand. Reel Length	Jumbo Reel Length	
				In.	mm					
207-82-6502	22	6	60	0.42	10.7	91	108	5000	10000	
207-82-6503		12	60	0.50	12.7	135	152	5000	10000	
207-82-6504		18	60	0.56	14.2	176	200	5000	10000	
207-82-6505		25	60	0.63	16.0	221	245	5000	10000	
207-82-6507		50	60	0.80	20.3	376	416	5000	10000	
207-82-6508		75	60	0.97	24.6	541	632	5000	10000	
207-82-6509		100	60	1.09	27.7	702	793	5000	10000	
207-82-6511		150	70	1.30	33.0	986	1125	2500	5000	
207-82-6513		200	80	1.48	37.6	1282	1477	2500	5000	
207-82-6514		300	90	1.79	45.5	19053	2180	2500	3000	
207-82-6522		19	6	60	0.51	13.0	136	153	5000	10000
207-82-6523			12	60	0.62	15.7	211	235	5000	10000
207-82-6524	18		60	0.72	18.3	286	325	5000	10000	
207-82-6525	25		60	0.81	20.6	369	424	5000	10000	
207-82-6527	50		70	1.12	28.4	687	779	5000	10000	
207-82-6528	75		70	1.31	33.3	981	1120	2500	5000	
207-82-6529	100		80	1.50	38.1	1256	1433	2500	5000	
207-82-6531	150		90	1.86	47.2	1858	2123	1250	2500	
207-82-6533	200		90	2.07	52.6	2391	2806	1250	2000	
207-82-6534	300		100	2.47	72.7	3493	4023	1250	—	
207-82-6542	16		6	60	0.62	15.9	217	244	2500	5000
207-82-6543			12	60	0.80	20.5	363	406	2500	5000
207-82-6544		18	60	0.97	24.8	516	568	2500	5000	
207-82-6545		25	70	1.12	28.6	689	767	2500	5000	
207-82-6547		50	75	1.49	38.0	1252	1378	2500	—	
207-82-6548		75	80	1.96	49.8	1857	2167	1000	—	
207-82-6549		100	80	2.04	51.8	2356	2666	1000	—	
207-82-6551		150	90	2.45	62.2	3438	3963	1000	—	
207-82-6553		200	100	2.79	70.9	4512	5158	1000	—	

**Notes:** RTC cables are available, on special order, with a T-Screen® or core separated construction for use with PCM type carrier. To order T-Screen construction, change first five digits of catalog number from 704-03 to 704-33. In addition to "T-Screen" and "Jelly Filled" types these cables are available pressurized, and in "Air Core" and "Foam" constructions.