

## PRODUCT DESCRIPTION

The 1249C Series Central Office (CO) Cables are designed for use between switching and transmission equipment for distances up to 450 feet. With short twist lays, 1249C series offers superior crosstalk performance over standard telephone cable. It is manufactured with a dual foil shield for additional Electromagnetic Interference (EMI) reduction and is double jacketed for protection of the twisted pairs. The 1249C series meets or exceeds all applicable requirements of Telcordia GR-137 specifications.

## APPLICATIONS

- T1/DS1
- T1C/DS1C
- DS2

## FEATURES

- 26 AWG tinned copper conductors
- Solid Polyolefin insulation
- 100 Ohm nominal Impedance
- Short pair lays/tight twists
- Dual aluminum foil shields
- Tinned copper drain wire
- CMR listed
- Rip cord
- Solid color insulation

## BENEFITS

- Small diameter and light weight result in smaller cable bundles and easier handling; minimize change in wire-wrap joint resistance
- Greater crush resistance and improved transmission characteristics
- Impedance mismatch with OSP cable is minimized
- Improved crosstalk performance and pair identification
- Higher EMI isolation over a single foil shield
- Easier termination and superior grounding
- Suitable for horizontal and riser installations
- Added ease of jacket removal
- Easy identification of conductor ring mates



## SPECIFICATIONS

Conductor	Tinned copper
Insulation	Flame retardant polyethylene
Shield	Dual aluminum foil
Jacket	Gray PVC printed at 2 foot intervals including product identification, pair count, UL information and sequential lengths in feet and meters
Performance Compliance	Telcordia GR-137-CORE, Issue 2, May 2013 Telcordia GR-499-CORE (Pulse shape compliance at 450 feet) ASTM B33 - Tinned Copper UL 444 CSA C22.2 No. 214-08 UL 1666 RoHS-compliant
NRTL Programs	UL, c(UL) Listed CMR

## PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
55-299-20	4	26 (0.4)	0.27 (6.8)	27 (40)	10,000 (3,048)	Reel
55-399-20	6	26 (0.4)	0.28 (7.1)	33 (49)	10,000 (3,048)	Reel
55-499-20	12	26 (0.4)	0.35 (8.8)	50 (74)	7,000 (2,133)	Reel
55-599-20	16	26 (0.4)	0.39 (9.9)	65 (97)	7,000 (2,133)	Reel
55-699-20	20	26 (0.4)	0.42 (10.6)	75 (112)	5,000 (1,524)	Reel
55-799-20	25	26 (0.4)	0.45 (11.4)	88 (131)	5,000 (1,524)	Reel
55-899-20	28	26 (0.4)	0.47 (11.9)	93 (138)	5,000 (1,524)	Reel
55-999-20	30	26 (0.4)	0.49 (12.4)	101 (150)	4,000 (1,219)	Reel
55-A99-20	32	26 (0.4)	0.50 (12.7)	105 (156)	4,000 (1,219)	Reel
55-B99-20	50	26 (0.4)	0.59 (14.9)	153 (228)	3,000 (914)	Reel
55-E99-20	100	26 (0.4)	0.76 (19.3)	277 (412)	3,000 (914)	Reel

## ELECTRICAL SPECIFICATIONS

Frequency MHz	PSNEXT Mean dB		PSNEXT Worst Pair dB	
	Minimum	Typical	Minimum	Typical
0.15	58	66	53	60
0.772	47	53	42	48
1.6	43	47	38	43
3.15	38	42	33	37
6.3	34	38	29	32

Attenuation @ 68°F (20°C)				Conductor DC Resistance @ 68°F (20°C)		Mutual Capacitance Nominal pF/ft (pF/m)	Characteristic Impedance @ 0.772 MHz Ohms
Bit Rate Mb/s	Frequency MHz	Maximum Average* dB/kft (dB/100 m)	Typical dB/kft (dB/100 m)	Maximum Individual Ohms/kft (Ohms/km)			
1.544	0.772	7.8 (2.6)	6.4 (2.1)	46.1 (151)		16 (52)	102 ± 15.3

\*For cables with 12-pair or less, the maximum average attenuation may be increased by 10% over the values shown.