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	Benefits
• 26 AWG tinned copper conductors	• Small diameter and light weight result in smaller cable bundles and easier handling; tinned copper conductors minimize change in wire-wrap joint resistance
• Solid Polyolefin insulation	• Greater crush resistance and improved transmission characteristics
• 100 Ohm nominal Impedance	• Impedance mismatch with Outside Plant (OSP) cables is minimized
• Short pair lays/tight twists	• Improved crosstalk performance and pair identification
• Dual aluminum foil shields	• Higher EMI isolation over a single foil shield
• Tinned copper drain wire	• Easier termination and superior grounding
• CMR listed	• Suitable for horizontal and riser installations
• Rip cord	• Added ease of jacket removal
• Solid color insulation	• Easy identification of conductor ring mates

Specifications	
Conductor	Tinned copper
AWG (mm)	26 (0.4)
Insulation	Solid polyolefin
Shield	Dual aluminum foil
Jacket	Gray PVC
Jacket Marking	Printed at 2 foot intervals on the jacket; information includes product identification, pair count, UL information and sequential lengths in feet and meters
Package	Reel
Standards Compliance	Telcordia GR-137-CORE Telcordia GR-499-CORE (Pulse shape compliance at 450 feet) UL 444 CMR RoHS-compliant

Part Numbers and Physical Characteristics

Part Number	Pair Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)
55-299-20	4	0.24 (6.1)	27 (40)	10,000 (3,048)
55-399-20	6	0.27 (6.9)	33 (49)	10,000 (3,048)
55-499-20	12	0.33 (8.4)	50 (74)	7,000 (2,133)
55-599-20	16	0.37 (9.4)	65 (97)	7,000 (2,133)
55-699-20	20	0.40 (10)	75 (112)	5,000 (1,524)
55-799-20	25	0.43 (11)	88 (131)	5,000 (1,524)
55-899-20	28	0.42 (11)	93 (138)	5,000 (1,524)
55-999-20	30	0.45 (11)	101 (150)	4,000 (1,219)
55-A99-20	32	0.46 (12)	105 (156)	4,000 (1,219)
55-B99-20	50	0.55 (14)	153 (228)	3,000 (914)
55-E99-20	100	0.73 (19)	277 (412)	3,000 (914)

Electrical Specificatons

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) Maximum Individual Ohms/kft (Ohms/km)	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)			
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.*