

600C Series Central Office

Product Description

The 600C Series Central Office (CO) Cables are designed for use between switching and transmission equipment for distances up to 650 feet. This series offers the lowest attenuation of all the CO cable products by using 22 AWG conductors. It is manufactured with a dual foil shield for additional Electromagnetic Interference (EMI) reduction. The 600C series meets or exceeds all applicable requirements of Telcordia GR-137 specifications.

Applications

- T1/DS1
- T1C/DS1C
- DS2

Features

- 22 AWG tinned copper conductors
- Solid Polyolefin insulation
- 100 Ohm nominal Impedance
- Dual aluminum foil shield
- Tinned copper drain wire
- CMR listed
- Rip cord
- Band marked

Benefits

- Low attenuation, enabling longer run length; tinned copper conductors minimize change in wire-wrap joint resistance
- Greater crush resistance and improved transmission characteristics; smaller cable over dual insulated type
- Impedance mismatch with Outside Plant (OSP) cables is minimized
- Higher EMI isolation over a single foil shield; smaller cable diameter than 600B Series cables
- 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
AWG (mm)	22 (0.6)
Insulation	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 650 feet) UL 444 CMR RoHS-compliant

Part Numbers and Physical Characteristics

Part Number	Product Code	Pair Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)
55-299-38	605C	4	0.29 (7.4)	40 (60)	10,000 (3,048)
55-399-38	606C	6	0.32 (8.1)	52 (77)	10,000 (3,048)
55-499-38	607C	12	0.41 (10)	89 (132)	7,000 (2,133)
55-599-38	608C	16	0.47 (12)	118 (176)	7,000 (2,133)
55-699-38	617C	20	0.50 (13)	141 (210)	5,000 (1,524)
55-799-38	609C	25	0.55 (14)	172 (256)	5,000 (1,524)
55-899-38	616C	28	0.58 (15)	189 (281)	5,000 (1,524)
55-999-38	613C	30	0.60 (15)	201 (299)	5,000 (1,524)
55-A99-38	615C	32	0.61 (16)	213 (317)	5,000 (1,524)
55-B99-38	610C	50	0.74 (19)	324 (482)	3,000 (914)
55-C99-38	618C	56	0.78 (20)	359 (534)	3,000 (914)

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) 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	5.0 (1.6)	4.0 (1.3)	18 (59.1)	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.