600C Series

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	BENEFITS
• 22 AWG tinned copper conductors	• Low attenuation, enabling longer run length; tinned copper conductors minimize change in wire-wrap joint resistance
• Solid Polyolefin insulation	• Greater crush resistance and improved transmission characteristics; smaller cable over dual insulated type
• 100 Ohm nominal Impedance	• Impedance mismatch with OSP cable is minimized
• Dual aluminum foil shield	• Higher EMI isolation over a single foil shield; smaller cable diameter than 600B Series
• Tinned copper drain wire	• Easier termination and superior grounding
• CMR listed	• Suitable for horizontal and riser installations
• Rip cord	• Added ease of jacket removal
• Band marked	• Easy identification of conductor ring mates

SPECIFICATIONS

Conductor	Tinned copper
Insulation	Polyolefin
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 650 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	Product Code	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
55-299-38	605C	4	22 (0.6)	0.29 (7.4)	40 (60)	10,000 (3,048)	Reel
55-399-38	606C	6	22 (0.6)	0.33 (8.3)	52 (77)	10,000 (3,048)	Reel
55-499-38	607C	12	22 (0.6)	0.43 (10.9)	89 (132)	7,000 (2,133)	Reel
55-599-38	608C	16	22 (0.6)	0.49 (12.4)	118 (176)	7,000 (2,133)	Reel
55-699-38	617C	20	22 (0.6)	0.53 (13.4)	141 (210)	5,000 (1,524)	Reel
55-799-38	609C	25	22 (0.6)	0.58 (14.7)	172 (256)	5,000 (1,524)	Reel
55-899-38	616C	28	22 (0.6)	0.61 (15.5)	189 (281)	5,000 (1,524)	Reel
55-999-38	613C	30	22 (0.6)	0.64 (16.2)	201 (299)	5,000 (1,524)	Reel
55-A99-38	615C	32	22 (0.6)	0.65 (16.5)	213 (317)	5,000 (1,524)	Reel
55-B99-38	610C	50	22 (0.6)	0.79 (20.0)	324 (482)	3,000 (914)	Reel
55-C99-38	618C	56	22 (0.6)	0.82 (20.8)	359 (534)	3,000 (914)	Reel

ELECTRICAL SPECIFICATIONS

	PSNEXT Mean		PSNEXT Worst Pair	
Frequency MHz	Minimum dB	Typical dB	Minimum dB	Typical dB
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.*