1161A Series Category 3

Besten Wire and Cable Corporation

Product Description

The 1161A Series Central Office (CO) Cables are designed for use between switching and transmission equipment, spanning distances up to 565 feet. With short twist lays, 1161A series offers superior crosstalk performance over standard telephone cable. It is manufactured with a foil shield for Electromagnetic Interference (EMI) reduction. The 1161A series meets or exceeds all applicable requirements of Telcordia GR-137 specifications.

Applications

- T1/DS1
- T1C/DS1C
- DS2

Specifications

Conductor	Tinned copper
Insulation	Polyolefin
Core Wrap	Non-hygroscopic, dielectric tape (16+ pair counts only)
Shield	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 565 feet) ASTM B33 - Tinned Copper UL 444 CSA C22.2 No. 214-08 UL 1666 ANSI/TIA-568-C.2 RoHS-compliant
NRTL Programs	UL, c(UL) Listed CMR

Features	Benefits
• 24 AWG tinned copper conductors	• Small diameter and light weight results in smaller bundles of cables and improved flexibility (compared with 600 Series) • Tinned copper conductors minimize change in wire-wrap joint resistance
• Solid color Polyolefin insulation	• Greater crush resistance and improved transmission characteristics
• 100 Ohm nominal Impedance	• Impedance mismatch with OSP cable is minimized
• Short pair lays/tight twists	• Improved crosstalk performance and pair identification
• Aluminum foil shield	• EMI isolation
• Tinned copper drain wire	• Easier termination and superior grounding
• CMR listed	• Suitable for horizontal and riser installations
• 75°C rating	• Wider operating temperature range
• Rip cord	• Added ease of jacket removal

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
155-299-21	4	24 (0.5)	0.26 (6.6)	27 (40)	10,000 (3,048)	Reel
155-399-21	6	24 (0.5)	0.27 (6.9)	35 (52)	10,000 (3,048)	Reel
155-F99-21	8	24 (0.5)	0.35 (8.9)	45 (67)	10,000 (3,048)	Reel
155-499-21	12	24 (0.5)	0.35 (8.9)	58 (86)	7,000 (2,133)	Reel
155-L99-21	14	24 (0.5)	0.38 (9.7)	70 (104)	7,000 (2,133)	Reel
155-599-21*	16	24 (0.5)	0.41 (10)	77 (115)	7,000 (2,133)	Reel
155-699-21*	20	24 (0.5)	0.44 (11)	93 (139)	20,000 (6,096)	Reel
155-799-21*	25	24 (0.5)	0.48 (12)	112 (167)	5,000 (1,524)	Reel
155-899-21*	28	24 (0.5)	0.51 (13)	123 (183)	5,000 (1,524)	Reel
155-999-21*	30	24 (0.5)	0.53 (14)	135 (201)	5,000 (1,524)	Reel
155-A99-21*	32	24 (0.5)	0.55 (14)	143 (213)	4,000 (1,219)	Reel
155-B99-21*	50	24 (0.5)	0.66 (17)	210 (313)	3,000 (914)	Reel
155-E99-21*	100	24 (0.5)	0.89 (23)	389 (579)	1,000 (305)	Reel

*Mylar around core

Electrical Specifications

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

Bit Rate Mb/s	Frequency MHz	Attenuation @68°F (20°C) Maximum Average* dB/kft (dB/100 m)	Attenuation @68°F (20°C) Typical dB/kft (dB/100 m)	Maximum Individual Conductor DC Resistance @68°F (20°C) Ohms/kft (Ohms/km)	Nominal Mutual Capacitance pF/ft (pF/m)	Characteristic Impedance @0.772 MHz Ohms
1.544	0.772	6.3 (2.1)	5.4 (1.8)	28.6 (93.8)	16 (52)	102 ± 15.3