

# CORDATA Labs® Category 6 550 MHz CMR/CMP

## Product Description

CORDATA Labs® Category 6 is a TIA/EIA 568-C.2-1 compliant 4-pair UTP cable at a cost-effective price. In addition, the cable utilizes Countdown footage marking, which allows the installer to determine the remaining length of cable in the box.

### Physical Characteristics

Pair Count	4
Conductor	23 AWG (0.57 mm) Solid Annealed Bare Copper
Insulation	Riser: Thermoplastic Plenum: FEP
Jacket Material	Riser: Flame Retardant PVC (Polyvinyl Chloride) Plenum: Flame Retardant, Low Smoke PVC
Nominal Diameter in (mm)	0.22 (5.6)
Nominal Weight lbs/kft (kg/km)	25 (37)

### Electrical Parameters

Attenuation (dB/100 m) @ 250 MHz	32.8
Input Impedance ( $\Omega$ ), nominal	100
Delay Skew (ns/100 m), maximum	45
Velocity of Propagation (%), nominal	Riser: 68 Plenum: 71
DC Resistance ( $\Omega$ /100 m), maximum	9.38
Resistance Unbalance (%), maximum	3.0

### Part Numbers and Packaging

Part #	Fire Rating	Jacket Color	Package
U604RBLBX	Riser	Blue	1000' Box
U604RWHBX	Riser	White	1000' Box
U604RGYBX	Riser	Gray	1000' Box
U604RYLBX	Riser	Yellow	1000' Box
U604PBLBX	Plenum	Blue	1000' Box
U604PWHBX	Plenum	White	1000' Box
U604PGYBX	Plenum	Gray	1000' Box
U604PYLBX	Plenum	Yellow	1000' Box



### Applications

10BASE-T through 1000BASE-T Ethernet  
ATM  
Token Ring

### Standards Compliance

UL Verified to Category 6  
UL 444  
UL c(UL) Listed CMR (UL 1666)  
UL c(UL) Listed CMP (NFPA 262)  
ISO/IEC 11801  
ANSI/TIA 568-C.2  
ANSI/ICEA S-90-661-2002  
RoHS Compliant

*All Coradata Lab cable will conform substantially to the specifications contained herein at the time of delivery. As buyer's sole and exclusive remedy for any breach of the foregoing warranty, supplier will, at its sole option and expense, either refund the purchase price paid, repair or replace the cable which fails to meet this warranty upon return of the nonconforming cable; provided, buyer notifies supplier of noncompliance in writing within one (1) year of delivery. This warranty does not apply to any cable that was not properly stored or handled by the buyer, that was repaired or altered or was otherwise subject to abuse, neglect or improper use by buyer or a third party, or that has any stage of processing performed on it which causes the defect. SUPPLIER MAKES NO OTHER WARRANTIES WHATSOEVER, EXPRESS OR IMPLIED, REGARDING THE CORDATA LAB CABLES AND SPECIFICALLY DISCLAIMS ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.*

## Electrical Specifications

Frequency MHz	Insertion Loss @ 20°C Maximum dB/100 m		NEXT Minimum dB/100 m		ACR Minimum dB/100 m		PSNEXT Minimum dB/100 m	
	TIA-568-C.2	CORDATA	TIA-568-C.2	CORDATA	TIA-568-C.2	CORDATA	TIA-568-C.2	CORDATA
	Specified	Typical	Specified	Typical	Calculated	Typical	Specified	Typical
1	2.0	1.7	74.3	79.9	72.3	79.2	72.3	78.9
4	3.8	3.4	65.3	74.6	61.5	71.2	63.3	72.0
8	5.3	4.8	60.8	71.4	55.4	65.9	58.8	68.9
10	6.0	5.4	59.3	67.1	53.3	61.7	57.3	65.3
16	7.6	6.9	56.2	66.6	48.6	59.5	54.2	64.1
20	8.5	7.8	54.8	65.7	46.3	57.7	52.8	62.7
25	9.5	8.8	53.3	63.1	43.8	55.7	51.3	61.7
31.25	10.7	9.8	51.9	64.8	41.2	53.2	49.9	60.4
62.5	15.4	14.2	47.4	61.0	32.0	44.8	45.4	56.1
100	19.8	18.2	44.3	55.0	24.5	35.7	42.3	52.0
155	25.2	23.0	41.4	51.5	16.3	28.6	39.4	49.1
200	29.0	26.6	39.8	50.8	10.8	23.5	37.8	47.6
250	32.8	30.1	38.3	48.0	5.5	18.1	36.3	45.7
300		33.4		50.8		16.4		46.1
350		36.5		47.1		11.3		44.5
400		39.5		46.1		5.0		41.5
450		42.3		41.6		0.3		40.4
500		45.1		39.9				38.7
550		47.7		38.6				36.1

Frequency MHz	PSACR Minimum dB/100 m		Return Loss Minimum dB/100 m		ELFEXT Minimum dB/100 m		PSELFEXT Minimum dB/100 m	
	TIA-568-C.2	CORDATA	TIA-568-C.2	CORDATA	TIA-568-C.2	CORDATA	TIA-568-C.2	CORDATA
	Calculated	Typical	Specified	Typical	Specified	Typical	Specified	Typical
1	70.3	77.2	20.0	23.0	67.8	75.7	64.8	73.6
4	59.5	68.6	23.0	28.1	55.8	62.9	52.8	61.2
8	53.4	64.1	24.5	31.5	49.7	57.1	46.7	55.4
10	51.3	59.9	25.0	33.3	47.8	55.1	44.8	53.4
16	46.6	57.2	25.0	34.7	43.7	51.0	40.7	49.2
20	44.3	55.1	25.0	33.0	41.8	49.1	38.8	47.3
25	41.8	53.1	24.3	35.6	39.8	47.2	36.8	45.4
31.25	39.2	50.6	23.6	35.3	37.9	45.1	34.9	43.4
62.5	30.0	42.0	21.5	29.8	31.9	38.4	28.9	37.3
100	22.5	34.0	20.1	27.7	27.8	33.8	24.8	32.2
155	14.3	26.1	18.8	25.8	24.0	30.3	21.0	28.9
200	8.8	21.0	18.0	24.6	21.8	29.6	18.8	28.8
250	3.5	15.8	17.3	25.5	19.8	29.5	16.8	28.3
300		12.8		25.6		27.8		25.9
350		8.6		26.0		23.8		22.4
400		2.0		21.9		21.7		20.5
450				20.9		20.2		18.9
500				22.0		19.5		18.5
550				21.2		19.4		19.0