

Category 6 4-Pair Riser Data Cable



ADC's Category 6 Data cable is an economical solution offering a 20-year product performance warranty. In addition, the cable is guaranteed to meet the minimum requirements of ANSI/TIA 568-C for Category 6 for dependable data transmission in any network configuration, from the switch to the network interface.

Features:

- Unparalleled delay skew performance
- Manufactured with lead-free materials

Compliances:

- UL Subject 444
- (UL)-C(UL) Type CMR
- ICEA S-90-661
- NEC 800 Type CMR
- ISO/IEC 11801 Category 6
- ETL Verified ANSI/TIA-568-C.2 Category 6 horizontal cable requirements

SPEC SHEET



www.adc.com • +1-952-938-8080 • 1-800-366-3891



Category 6 4-Pair Riser Data Cable

6/10 • 101839AE Category 6 4-Pair Riser Data Cable

Specifications

CONSTRUCTION

Conductors:	24 AWG solid bare copper
Insulation:	Polyolefin
Pairing:	Short, staggered pair lays
Filler:	Polyolefin
Jacket:	Lead-free, flame retardant PVC
Nominal outer diameter	5.5 mm (.215")

ELECTRICAL CHARACTERISTICS

Conductor DC resistance (maximum):	9.38 Ω/100 meters (28.6 Ω /1000 ft) @ 20° C (68° F)
DC resistance unbalance (maximum):	2%
Mutual capacitance (maximum):	5.6 nF/100 meters (17 pF/ft)
Operating temperature (maximum):	75° C (167° F)
Operating voltage (maximum):	300 VDC
Worst case cable skew:	25 ns/100 meters (25 ns/328 ft)
Nominal velocity of propagation:	69%

FREQ (MHz)	FITTED IMPEDANCE (Ohms)	INSERTION LOSS (dB/100 m)		RETURN LOSS (dB/100 m)		Pair-Pair NEXT (dB/100 m)		PSNEXT (dB/100 m)	
	SPEC	Max	TIA Spec	Min	TIA Spec	Min	TIA Spec	Min	TIA Spec
1	100 ± 15	1.8	2.0	26.3	20.0	80.1	74.3	78.2	72.3
4	100 ± 15	3.7	3.8	30.9	22.9	73.6	65.3	70.9	63.3
8	100 ± 15	5.1	5.3	28.2	24.5	68.4	60.8	62.5	58.8
10	100 ± 15	5.9	6.0	27.5	25.0	66.3	59.3	63.5	57.3
16	100 ± 15	7.5	7.6	27.1	25.0	62.9	56.2	61.7	54.2
20	100 ± 15	8.4	8.5	26.8	25.0	60.5	54.8	59.3	52.8
25	100 ± 15	9.3	9.5	31.6	24.3	59.1	53.3	56.4	51.3
31.25	100 ± 15	10.5	10.7	29.5	23.6	58.3	51.9	55.8	49.9
62.5	100 ± 15	15.1	15.4	28.2	21.5	54.6	47.4	51.6	45.4
100	100 ± 15	19.5	19.8	26.7	20.1	51.7	44.3	50.9	42.3
155	100 ± 15	24.6	25.2	22.6	18.8	49.8	41.4	48.2	39.4
200	100 ± 15	28.1	29.0	21.6	18.0	47.6	39.8	44.3	37.8
250	100 ± 15	31.6	32.8	19.2	17.3	46.2	38.3	42.5	36.3
300	100 ± 15	35.3		16.7		42.4		39.1	
350	100 ± 15	38.1		12.8		40.8		36.8	

FREQ (MHz)	Pair-Pair ACR (dB/100 m)		PSACR (dB/100 m)		Pair-Pair ACRF (dB/100 m)		PSACRF (dB/100 m)		LCL	ELTCTL (dB/100 m)
	Min	TIA Spec	Min	TIA Spec	Min	TIA Spec	Min	TIA Spec	Min	Min
1	77.8	72.3	75.6	70.3	71.8	67.8	69.4	64.8	40.0	35.0
4	71.2	61.5	70.8	59.5	60.1	55.8	60.8	52.8	40.0	23.0
8	59.6	55.4	61.5	53.4	54.9	49.7	53.7	46.7	40.0	16.9
10	57.5	53.3	58.7	51.3	51.6	47.8	52.1	44.8	40.0	15.0
16	55.3	48.7	54.2	46.7	46.5	43.7	48.6	40.7	38.0	10.9
20	52.4	46.3	51.5	44.3	45.1	41.8	46.7	38.8	37.0	9.0
25	48.9	43.8	48.6	41.8	44.3	39.8	44.3	36.8	36.0	7.0
31.25	47.3	41.2	46.1	39.2	42.4	37.9	42.8	34.9	35.1	
62.5	40.5	32.0	35.3	30.0	38.6	31.9	38.9	28.9	32.0	
100	32.6	24.5	29.9	22.5	35.5	27.8	34.3	24.8	30.0	
155	27.8	16.3	24.6	14.3	33.1	24.0	30.8	21.0	28.1	
200	21.6	10.8	19.7	8.8	30.8	21.8	28.3	18.8	27.0	
250	17.2	5.5	14.1	3.5	28.5	19.8	25.1	16.8	26.0	
300	7.3		6.2		24.3		21.6			
350	5.6		2.6		21.6		18.5			

NOTE: The above listed discrete frequency electrical performance values are provided for engineering information only. Actual compliance testing is based on swept frequency measurements. The spec values are based on ANSI/TIA-568-C.2 specification.



Category 6 4-Pair Riser Data Cable

6/10 • 101839AE Category 6 4-Pair Riser Data Cable

Ordering Information

Description	Catalog Number
4-pair cable, CMR flame rated	
Reel packaging	6TRT-XXYY
Reel in a box-1000'	6TRT-XXRB

XX = Jacket Color: BL = Blue, WT = White, GY = Gray, GN = Green, YL = Yellow, RD = Red
YY = Length: 02 = 1,000 ft, 04 = 2,000 ft, RB = 1,000 ft reel in a box, II = Reelex

SPEC SHEET



Website: www.adc.com

From North America, Call Toll Free: 1-800-366-3891 • Outside of North America: +1-952-938-8080

Fax: +1-952-917-3237 • For a listing of ADC's global sales office locations, please refer to our website.

ADC Telecommunications, Inc., P.O. Box 1101, Minneapolis, Minnesota USA 55440-1101

Specifications published here are current as of the date of publication of this document. Because we are continuously improving our products, ADC reserves the right to change specifications without prior notice. At any time, you may verify product specifications by contacting our headquarters office in Minneapolis. ADC Telecommunications, Inc. views its patent portfolio as an important corporate asset and vigorously enforces its patents. Products or features contained herein may be covered by one or more U.S. or foreign patents. An Equal Opportunity Employer

101839AE 6/10 Revision © 2010, 2006, 2005 ADC Telecommunications, Inc. All Rights Reserved