

Category 5e 4-Pair Riser Data Cable



ADC's Category 5e 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-568C.2 for Category 5e 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
- (UL)-C(UL) Type CM
- ICEA S-90-661
- NEC 800 Type CMR or CM
- ISO/IEC 11801 Category 5e
- ETL verified ANSI/TIA-568-C.2 Category 5e horizontal cable requirements

SPEC SHEET



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Specifications

CONSTRUCTION

Conductors:	24 AWG solid bare copper
Insulation:	Polyolefin
Pairing:	Short, staggered pair lays
Jacket:	Lead-free, flame retardant PVC
Nominal outer diameter:	4.7 mm (.185")

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/100m)		Return Loss (dB/100m)		Pair-Pair NEXT (dB/100m)		PSNEXT (dB/100m)	
	Spec	Max	Spec	Min	Spec	Min	Spec	Min	Spec
1	100 +/- 15	1.9	2.0	30.1	20.0	73.4	65.3	70.9	62.3
4	100 +/- 15	3.9	4.1	27.5	23.0	66.7	56.3	65.0	53.3
8	100 +/- 15	5.5	5.8	31.3	24.5	61.5	51.8	59.7	48.8
10	100 +/- 15	6.2	6.5	28.6	25.0	60.1	50.3	57.6	47.3
16	100 +/- 15	7.8	8.2	31.2	25.0	53.8	47.2	52.9	44.2
20	100 +/- 15	8.8	9.3	30.8	25.0	57.5	45.8	54.5	42.8
25	100 +/- 15	9.9	10.4	30.5	24.3	52.3	44.3	53.0	41.3
31.25	100 +/- 15	11.0	11.7	31.2	23.6	49.4	42.9	47.3	39.9
62.5	100 +/- 15	15.8	17.0	27.6	21.5	46.6	38.4	44.4	35.4
100	100 +/- 15	20.2	22.0	23.0	20.1	45.3	35.3	42.6	32.3
155	100 +/- 15	25.4	—	23.0	—	45.3	—	40.4	—



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6/10 • 101848AE Category 5e 4-Pair Riser Data Cable

Freq (MHz)	Pair-Pair ACR (dB/100 m)		PSACR (dB/100 m)		Pair-Pair ACRF (dB/100 m)		PSACRF (dB/100 m)	
	Min	Spec	Min	Spec	Min	Spec	Min	Spec
1	71.5	63.3	69.0	60.3	67.3	63.8	67.2	60.8
4	62.9	52.2	61.2	49.2	55.2	51.8	55.2	48.8
8	56.0	46.0	54.2	43.0	49.1	45.7	49.0	42.7
10	53.9	43.8	51.4	40.8	46.6	43.8	46.6	40.8
16	45.9	39.0	45.1	36.0	43.6	39.7	43.7	36.7
20	48.7	36.5	45.7	33.5	40.8	37.8	40.7	34.8
25	45.2	33.9	43.6	30.9	38.7	35.8	38.3	32.8
31.25	38.4	31.2	36.3	28.2	37.4	33.9	37.0	30.9
62.5	30.9	21.4	28.7	18.4	32.0	27.9	31.4	24.9
100	25.8	13.3	22.4	10.3	29.1	23.8	28.6	20.8
155	15.4	—	15.0	—	28.0	—	28.4	—

Ordering Information

Description	Weight (Lb/kft)	Catalog Number
4-pair cable, CMR flame rating		
Reel packaging	20	5ESR-XXYY
Reelx-1000'	20	5ESR-XXII
4-pair cable, CM flame rating		
Reel packaging	20	5ESM-XXYY
Reelx-1000'	20	5ESM-XXII

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

SPEC SHEET



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