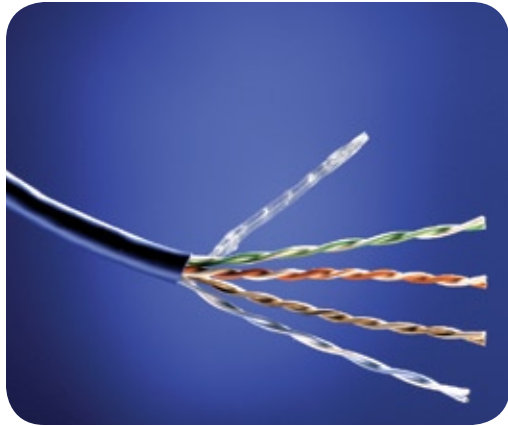


# Basic Structured Cabling Systems

## Category 5e 4-Pair Riser Data Cable



ADC's Basic Category 5e and Category 6 Structured Cabling Systems are complete channel solutions offering 20-year product performance warranties along with a multitude of product choices and design options. In addition, the components of these economical systems are also guaranteed to meet the minimum requirements of TIA 568B for Category 5e and 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/CMG
- (UL)-C(UL) Type CM/CMH
- ICEA S-90-661
- NEC 800 Type CMR or CM
- ISO/IEC 11801 Class D
- ETL verified TIA/EIA-568-B.2 Category 5e horizontal cable requirements

SPEC SHEET



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# Basic Structured Cabling Systems

## Category 5e 4-Pair Riser Data Cable

### Specifications

#### CONSTRUCTION

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

#### ELECTRICAL CHARACTERISTICS

<b>Conductor DC resistance (maximum):</b>	9.38 $\Omega$ /100 meters (28.6 $\Omega$ /1000 ft) @ 20 °C (68 °F)
<b>DC resistance unbalance (maximum):</b>	2%
<b>Mutual capacitance (maximum):</b>	5.6 nF/100 meters (17 pF/ft)
<b>Operating temperature (maximum):</b>	75 °C (167 °F)
<b>Operating voltage (maximum):</b>	300 VDC
<b>Worst case cable skew:</b>	25 nS/100 meters (25 nS/328 ft)
<b>Nominal velocity of propagation:</b>	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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# Basic Structured Cabling Systems

## Category 5e 4-Pair Riser Data Cable

10/06 • 101848AE Category 5e 4-Pair Riser Data Cable

Freq (MHz)	Pair-Pair ACR (dB/100m)		PSACR (dB/100m)		Pair-Pair ELFEXT (dB/100m)		PSELFEXT (dB/100m)	
	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
<b>4-pair cable, CMR flame rating</b>		
Reel packaging	20	5ESR-XXYY
Reelx-1000'	20	5ESR-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

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**Web Site: [www.adc.com](http://www.adc.com)**

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