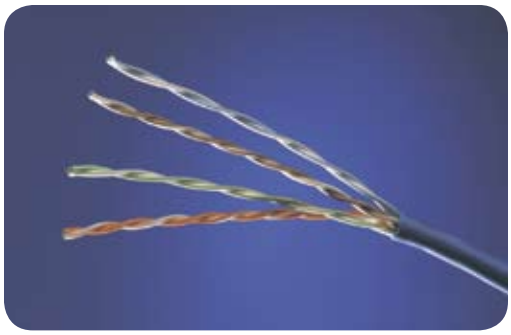
Category 5e 4-Pair Plenum Data Cable



ADC's Category 5e data cable is an economical soution offering a 20-year product performance warranty. In addition, the cable is guaranteed to meet the minimum requirements of ANSI/TIA 568-C.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 CMP
- ICEA S-90-661
- NEC 800 Type CMP
- ISO/IEC 11801 Category 5e
- ETL verified ANSI/TIA-568-C.2 Category 5e horizontal cable requirements

SPEC SHEET

Basic Structured Cabling Systems

Category 5e 4-Pair Plenum Data Cable

Specifications

CONSTRUCTION

Conductors:	24 AWG solid bare copper
Insulation:	100% FEP
Pairing:	Short, staggered pair lays
Jacket:	Lead-free, flame retardant PVC
Nominal outer diameter:	4.45 mm (.175")

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:	76%

Freq (MHz)	Fitted Impedance (Ohms)	Insertion Loss (dB/100m)		Return Loss (dB/100m)		Pair-Pair Next (dB/100m)		PSNEXT (dB/100m)	
	SPEC	Max	TIA Spec	Min	TIA Spec	Min	TIA Spec	Min	TIA Spec
1	100 +/- 15	1.9	2.0	25.6	20.0	71.7	65.3	69.6	62.3
4	100 +/- 15	4.0	4.1	27.1	23.0	64.1	56.3	60.8	53.3
8	100 +/- 15	5.6	5.8	28.5	24.5	57.9	51.8	56.3	48.8
10	100 +/- 15	6.3	6.5	29.8	25.0	57.2	50.3	55.2	47.3
16	100 +/- 15	8.1	8.2	29.5	25.0	54.2	47.2	51.7	44.2
20	100 +/- 15	9.2	9.3	30.4	25.0	53.1	45.8	50.0	42.8
25	100 +/- 15	10.2	10.4	31.2	24.3	48.5	44.3	46.8	41.3
31.25	100 +/- 15	11.5	11.7	30.7	23.6	50.9	42.9	48.0	39.9
62.5	100 +/- 15	16.5	17.0	26.7	21.5	46.6	38.4	44.0	35.4
100	100 +/- 15	21.3	22.0	24.6	20.1	42.5	35.3	39.9	32.3
155	100 +/- 15	26.5		23.0		44.6		40.0	

Freq (MHz)	Pair-Pair (dB/100m)		PSACR (dB/100m)		Pair-Pair ACRF (dB/100m)		PSACRF (dB/100m)	
	Max	TIA Spec	Min	TIA Spec	Min	TIA Spec	Min	TIA Spec
1	69.8	63.3	67.7	60.3	67.3	63.8	65.8	60.8
4	60.2	52.2	56.9	49.2	55.8	51.8	54.2	48.8
8	52.4	46.0	50.7	43.0	49.9	45.7	48.3	42.7
10	51.0	43.8	48.8	40.8	47.8	43.8	46.3	40.8
16	46.3	39.0	43.8	36.0	43.9	39.7	42.3	36.7
20	44.1	36.5	41.1	33.5	41.9	37.8	40.3	34.8
25	38.5	33.9	36.8	30.9	40.1	35.8	38.5	32.8
31.25	39.6	31.2	36.8	28.2	38.1	33.9	36.5	30.9
62.5	30.4	21.4	27.9	18.4	32.5	27.9	30.8	24.9
100	21.8	13.3	19.0	10.3	29.0	23.8	27.3	20.8
155	20.5		17.8		27.5		25.3	

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

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Basic Structured Cabling Systems

Category 5e 4-Pair Plenum Data Cable

Ordering Information

Description	Weight (Lbs/kft)	Catalog Number
4-pair cable		
Reel packaging	21	5ESP-XXYY
Reelex–1000'	20	5ESP-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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SPEC SHEET

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101849AE 6/10 Revision