

Technical Data Sheet - CAT5e - UTP CMP ETL LISTED
Category 5e

PART NUMBER:	CAT5E-XXX-000 (XXX Denotes Jacket Color)
DESCRIPTION:	24 AWG/4 PAIR Solid bare copper conductors, unshielded with an overall plenum jacket
NEC RATING:	CMP (NFPA 262)
APPROVALS	c(ETL)us Listed, UL 444, Verified to ANSI/TIA 568.2-D, ROHS complaint directive 2011/65/eu
APPLICATION	ANSI X3T9.5 TP-PMD (FDDI), ATM PMD 155Mbps IEEE 802.3 Fast Ethernet :10 Base-T, 100 Base-T4, 100 Base-X IEEE 802.5 :4/16 Mbps Token Ring, IEEE 802.12 :100 Base-VG
JACKET PRINT	<i>TRANS CABLE 4001453 CAT5E CMP FT6 24AWG 4PR UTP 75C TESTED TO 350 MHz c(ETL)us VERIFIED TO ANSI/TIA-568.2-D ISO-IEC 11801 MADE IN CHINA PO#XXXX ROHS COMPLIANT XXXXFT JULAIN DATE</i>

Conductor	24AWG Copper (0.204"/.518mm)
Conductor Insulation	Fluoropolymer
Stranding	Solid
Number of Conductors	8 (4 Pair)
Conductor Average Diameter	0.034"
Rip cord	Polyester
Shield	None
Drain	None
Spline	None
Jacket Material	FR-PVC
Overall Cable Diameter	0.185" Nom. (4.699mm)
Jacket Wall	0.015"± .002 (0.381mm)
Approximate Cable Weight	22 Lbs./1MFT Nom.
Flame Rating	NFPA 262 FT6

Electrical & Environmental Properties

Operating Temperature Rating	-20°C to +60°C (-4°F to 140°F)
Storage Temperature	-20°C to +75°C (-4°F to 167°F)
Installation Temperature	0 to 60°C (+32°F to 140°F)
Operating Voltage Rating	300V RMS
DC Resistance	9.01Ω/100m Nom.
Mutual Capacitance	4.75 nF/100m Max
Resistance Unbalance	0.85%
Capacitance Unbalance	23.55pF/100m
Input Impedance	100 Ohms ±15%
Delay Skew	32.444NS @ 1.312 MHz
NVP %	74.20%
Electrical Performance Standards	ANSI/TIA 568.2-D

Electrical Specifications:
CAT5e ELECTRICAL SPECIFICATIONS

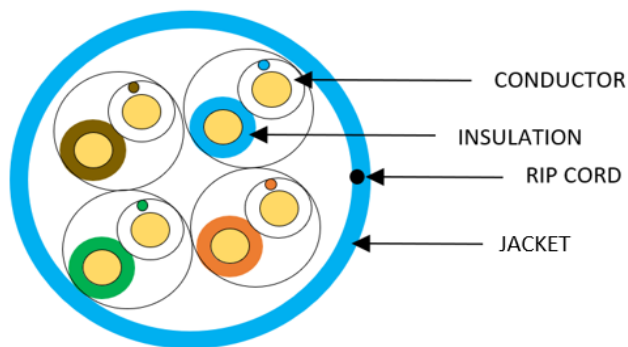
FREQ (MHz)	INSERTION LOSS		NEXT		PS NEXT		ACR-N	
	TIA-568.2-D	TRANS CABLE	TIA-568.2-D	TRANS CABLE	TIA-568.2-D	TRANS CABLE	TIA-568.2-D	TRANS CABLE
1	2.1	1.8	60.0	83.0	57.0	79.0	58.6	81.1
4	3.9	3.8	54.8	78.4	51.8	66.3	46.6	74.6
8	5.5	5.4	50.0	68.5	47.0	65.5	40.6	63.2
10	6.2	6.0	48.5	70.0	45.5	64.7	38.6	64.0
16	7.9	7.7	45.2	65.0	42.2	60.5	34.5	57.3
20	8.9	8.6	43.7	64.9	40.7	57.4	32.6	56.3
25	10.0	9.7	42.1	62.9	39.1	61.8	30.7	53.1
31.25	11.2	10.9	40.5	64.9	37.5	57.7	28.7	54.0
62.5	16.2	15.7	35.7	57.6	32.7	54.6	22.7	41.9
100	21.0	20.3	32.3	53.3	29.3	43.9	18.6	32.9
250		33.7		51.8		51.5		18
350		37.4		44.9		40.6		4

FREQ (MHz)	PSACR-N		ACR-F		PSACR-F		RETURN LOSS	
	TIA-568.2-D	TRANS CABLE	TIA-568.2-D	TRANS CABLE	TIA-568.2-D	TRANS CABLE	TIA-568.2-D	TRANS CABLE
1	55.6	74.7	58.6	62.8	55.6	77.1	19.0	37.7
4	43.6	64.5	46.6	75.2	43.6	62.6	19.0	34.6
8	37.5	59.4	40.6	64.0	37.5	60.2	19.0	33.3
10	35.6	54.9	38.6	70.6	35.6	58.7	19.0	34.8
16	31.5	50.0	34.5	59.8	31.5	52.8	19.0	37.7
20	29.6	51.0	32.6	62.6	29.6	48.8	19.0	37.1
25	27.7	47.7	30.7	63.3	27.7	46.6	18.0	37.7
31.25	25.7	46.9	28.7	56.0	25.7	59.3	17.1	40.3
62.5	19.7	35.7	22.7	47.2	19.7	38.9	14.1	39.0
100	15.6	26.5	18.6	33.5	15.6	23.6	12.0	32.1
250		9.5		17.4		7.8		27.1
350		-0.3		4.2		-0.4		24.2

Parameter above 100Mhz are for internal use only.

Mechanical Properties:

Max. Recommended Pull Tension:	25 Lbs.
Min. Bend Radius (Installed)	0.8" Min
RoHS Compliant	Yes
Footage marker	Sequential Footage Marker on Jacket
Standard Length	1000 FT
Packaging Option	Payout Box



Additional information:

Insulation Colors 1. Blue/White-Blue, 2. Orange/White-Orange
3. Green/White-Green, 4. Brown/White-Brown

Jacket Colors

Trans Cable Part #	Jacket Color	RAL Number
FCAT248-001	BLACK	9005
FCAT248-002	BLUE	5010
FCAT248-003	GREEN	6016
FCAT248-004	GRAY	7043
FCAT248-005	ORANGE	2011
FCAT248-006	PINK	3015
FCAT248-007	PURPLE	4007
FCAT248-008	RED	3002
FCAT248-009	WHITE	9001
FCAT248-010	YELLOW	1023



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