

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

PART NUMBER:	FCAT248-XXX (XXX - digits denote jacket color)
DESCRIPTION:	24 AWG/4 PAIR Solid bare copper conductors, unshielded with an overall plenum jacket
NEC RATING:	CMP
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	TRANS CABLE E472493 c(UL)us CMP UTP FT6 75°C 24 AWG 4PR VERIFIED (UL) <i>CAT5e ANSI/TIA 568-C.2 ISO-IEC 11801 --- TESTED TO 350 MHz ROHS COMPLIANT</i> <i>MADE IN USA PO#/OP#/ LOT # / CL# ROHS COMPLIANT 0000 FT JULIAN DATE DATE/YR</i>

Conductor	FCAT248-XXX (XXX Denote jacket color)
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	8.7Ω/100m Nom.
Mutual Capacitance	4.5 nF/100m Max
Resistance Unbalance	0.90%
Capacitance Unbalance	41.5pF/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

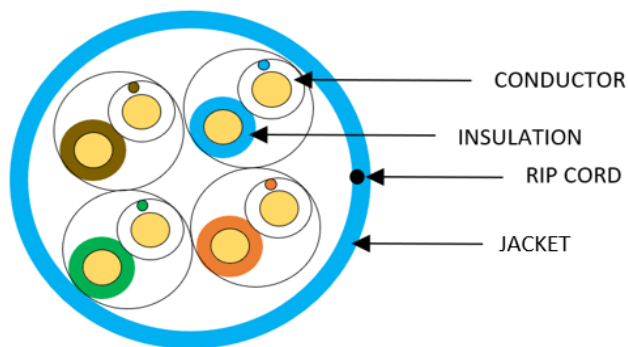
FREQ (MHz)	INSERTION LOSS		NEXT		PS NEXT		ACR-N	
	TIA-568.2-D	TRANS CABLE	TIA-568.2-D	TRANS CABLE	TIA-568.2-D	TRANS CABLE	TIA-568.2-D	TRANS CABLE
1	1.9	2.0	77.3	89.0	75.5	81.2	75.6	87.1
4	4.0	4.0	64.0	84.9	63.0	79.0	60.3	81.1
8	5.7	5.6	60.0	75.7	58.6	74.9	54.8	70.3
10	6.3	6.3	59.8	73.7	58.0	70.3	54.0	67.6
16	8.1	8.0	57.6	64.6	55.4	62.7	50.1	57.0
20	9.0	9.0	53.4	70.1	51.3	61.8	44.8	61.5
25	10.2	10.1	58.4	64.3	55.0	60.2	48.9	54.7
31.25	11.4	11.4	58.7	67.8	55.1	63.1	47.9	56.9
62.5	16.3	16.3	49.0	62.0	47.3	57.6	33.8	46.4
100	20.9	21.0	44.9	71.6	42.4	47.5	25.0	51.6
200		29.1		46.4		41.2		17.6
250		32.9		52.1		43.1		19.5
300		36.4		42.9		37.3		6.8
400		43.1		41.5		35.3		-1.2

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	73.8	79.2	72.5	78.3	71.3	78.3	23.2	44.2
4	59.0	75.0	60.6	72.8	59.4	72.4	29.9	61.3
8	52.9	69.3	54.5	69.2	53.3	69.2	35.8	52.5
10	51.6	64.0	52.9	63.4	51.6	63.4	31.9	64.6
16	47.3	54.7	48.5	56.0	47.4	56.0	32.8	47.1
20	42.7	52.8	46.9	51.8	45.8	51.8	35.5	41.9
25	45.3	50.0	44.4	44.8	43.6	44.8	34.2	41.9
31.25	44.5	51.8	41.8	46.2	41.0	46.2	29.6	41.6
62.5	31.8	41.2	33.4	43.4	32.8	43.4	32.8	41.5
100	22.3	26.5	27.1	32.7	26.7	32.7	27.5	32.1
200		12.1		17.6		16.7		32.6
250		10.2		19.5		6.4		34.0
300		0.9		6.8		1.9		38.7
400		-7.8		-1.2		-7.0		32.5

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	Dual Sequential footage marker on jacket
Standard Length	1000 FT
Packaging Option	Reelex Air® 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	6029
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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