



Part Number:	CAT6-XXX-000
Description:	23 AWG/4 PAIR Solid Bare Copper Conductors, Unshielded with an Overall Plenum Jacket
NEC Rating:	CMP (NFPA 262)
Approvals:	Tested 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 BaseT4, 100 Base-X IEEE 802.5 :4/16 Mbps Token Ring, IEEE 802.1
Jacket Print:	4010346 CAT6 CMP-LP (0.5A) FT6 23 AWG 4PR UTP 75C TESTED TO 550 MHz c(ETL)us VERIFIED TO ANSI/TIA-568.2-D ISO-IEC 11801 MADE IN USA PO#/OP#/LOT#/CLX ROHS COMPLIANT

Stranding:	Solid
Number of Conductors:	8 (4 Pairs)
Insulation (All Pairs):	FEP 0.0074-0.0098" (0.190mm)
Ripcord:	Polyester
Drain Wire:	None
Spline:	FEP Spline - Mini Size, Easy to tear
Jacket Material:	FR-PVC
Overall Cable Diameter:	0.214" Nom. (5.435mm)
Jacket Average Wall:	0.015" (0.381mm)
Approximate Cable Weight:	28lbs./1MFT Nom.

Electrical and Environmental Properties

Operating Temperature Rating:	-20°C to +75°C (-4°F to 167°F)
Operating Voltage Rating:	300V RMS
DC Resistance:	8.3Ω/100m
Mutual Capacitance:	4.63 nF/100m
Resistance Unbalance:	0.5%
Capacitance Unbalance:	19.5pF/100m
Input Impedance:	100Ω ±15Ω (100Mhz)
Delay Skew	11.08ns/100mm
NVP %	73.80%





Electrical Specifications:

FREQ (MHz)	INSERTION LOSS		NEXT		PS NEXT		ACR	
	TIA 568.2-D	TCI AVG.	TIA 568.2-D	TCI AVG.	TIA 568.2-D	TCI AVG.	TIA 568.2-D	TCI AVG.
1	2.1	1.7	73.7	96.3	71.7	89.4	71.7	94.6
4	3.8	3.5	65.3	85.9	63.3	79.7	61.5	82.4
8	5.3	5.1	60.8	82.1	58.8	74.7	55.4	77.1
10	5.9	5.7	59.3	81.1	57.3	74.2	53.4	75.4
16	7.6	7.2	56.2	78.7	54.2	71.2	48.7	71.1
20	8.5	8.1	54.8	72.2	52.8	66.2	46.3	64.1
25	9.5	9.1	53.3	75.0	51.3	68.7	43.8	65.9
31.25	10.7	10.2	51.9	72.3	49.9	66.0	41.2	62.1
62.5	15.4	14.7	47.4	66.5	45.4	30.1	32.0	51.8
100	19.8	18.9	44.3	100.0	42.3	59.9	24.5	47.4
200	27.6	26.7	39.8	61.2	37.8	53.9	12.2	34.6
250	32.8	31.1	38.3	58.4	36.3	52.0	5.5	27.3
300	34.3	33.0	37.1	60.4	65.1	65.5	2.9	27.5
400	40.0	38.8	35.3	58.5	33.3	61.2	-4.8	19.7
500	45.2	44.0	33.8	58.0	31.8	50.9	-11.4	14.1
550		46.2		52.8		45.0		6.6

FREQ (MHz)	PSACR		ACRF		PSACRF		RETURN LOSS	
	TIA 568.2-D	TCI AVG.	TIA 568.2-D	TCI AVG.	TIA 568.2-D	TCI AVG.	TIA 568.2-D	TCI AVG.
1	69.7	87.7	67.0	90.7	64.0	84.4	20.2	23.1
4	59.5	76.1	55.8	78.6	52.8	72.2	23.0	31.9
8	53.4	69.6	49.7	73.2	46.7	66.1	24.5	36.9
10	51.4	68.5	47.8	70.8	44.8	64.4	25.0	35.3
16	56.7	64.0	43.7	66.0	40.7	59.7	25.0	38.0
20	44.3	58.1	41.8	63.9	38.8	57.3	25.0	36.7
25	41.8	59.6	39.8	62.4	36.8	54.9	24.3	38.2
31.25	39.2	55.8	37.9	60.8	34.9	52.7	23.6	37.0
62.5	30.0	45.4	31.9	52.7	28.9	46.9	21.5	32.9
100	22.5	41.1	27.8	47.5	24.8	41.5	20.1	37.2
200	10.2	27.2	12.2	37.0	37.7	29.3	18.0	27.6
250	3.5	20.9	19.9	37.3	16.9	29.0	17.3	32.2
300	0.9	21.5	2.9	28.7	35.1	23.2	16.8	22.5
400	-6.8	12.4	-4.8	19.9	33.2	11.0	15.9	20.0
500	-13.4	6.9	-11.4	11.7	31.8	5.7	15.2	20.6
550		1.2		10.7		4.6		19.9

Parameter above 250MHz are for internal use only





Ampacity

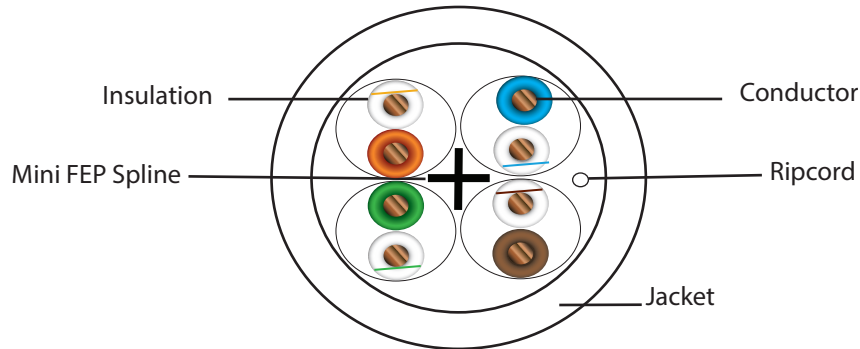
AWG	Number of 4 Pair Cables in Bundle																				
	1			2-7			8-19			20-37			38-61			62-91			92-193		
	60°C	75°C	90°C	60°C	75°C	90°C	60°C	75°C	90°C	60°C	75°C	90°C	60°C	75°C	90°C	60°C	75°C	90°C	60°C	75°C	90°C
24	2.0	2.0	2.0	1	1.4	1.6	0.8	1	1.1	0.6	0.7	0.9	0.1	0.1	0.7	0.4	0.5	0.6	0.3	0.4	0.5
23	2.5	2.5	2.5	1.2	1.5	1.7	0.8	1.1	1.2	0.6	0.8	0.9	0.5	0.7	0.8	0.5	0.7	0.8	0.4	0.5	0.6
22	3.0	3.0	3.0	1.4	1.8	2.1	1	1.2	1.4	0.37	0.9	1.1	0.6	0.8	0.9	0.6	0.7	0.8	0.5	0.6	0.7

Mechanical Properties:

Max. Recommended Pull Tension:	25 lbs.
Min. Bend Radius (Installed)	0.75" Min
RoHS Compliant	Yes
Footage Marker	Sequential Footage Marker on Jacket
Standard Length	1000 FT
Packaging	Reellex Air® Box
	Reel in a Box
	Spool - Plastic
	Custom Labels/Boxes by Request

REELEX AIR®





Trans Cable Part Number

Jacket Colors

CAT6-BLK-000



CAT6-BLU-000



CAT6-GRN-000



CAT6-GRY-000



CAT6-ORG-000



CAT6-PNK-000



CAT6-PUR-000



CAT6-RED-000



CAT6-WHT-000



CAT6-YEL-000

