

CAB-C6 UTP/BL CABLE

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Cat6 UTP 4 Pairs 23awg (CCA) Indoor
Lan Cable Specification

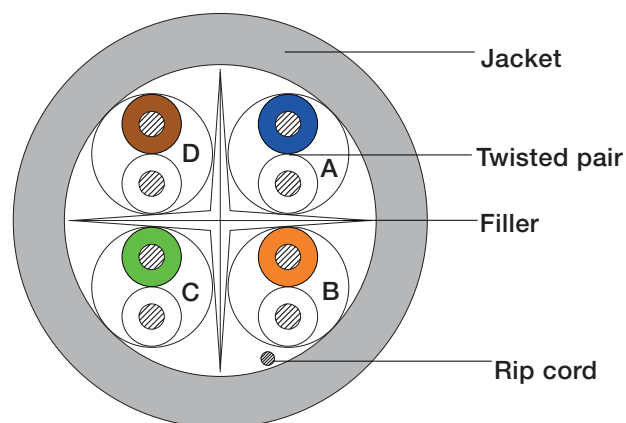
DESCRIPTION

Rated Temperature (oC)	70
Rated Voltage(V)	30
Certification	ISO/CE/RoHS

CONSTRUCTION

Conductor (35% copper CCA)	Solid CCA
AWG	23
Conductor Dia. (mm)	0.57
Insulation	PE
Average Thickness(mm)	0.220
Min. Point Thickness(mm)	0.200
Insulation Dia.(±0.01mm)	1.01
Twisted Pair Dia.(±0.02mm)	2.02
Separator	LDPE
Assembly Dia.(mm)	5.00
Jacket	PVC
Average Thickness(mm)	0.50
Min. Point Thickness(mm)	0.45
Outer Dia.(±0.20mm)	6.00
Rip Cord	Nylon

CROSS SECTION



COLOR

Insulation colors:

	A: Blue-White with Blue
	B: Orange-White with Orange
	C: Green-White with Green
	D: Brown-White with Brown
Jacket Color:	Per request

MARKING

Marking:	Per request
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PERFORMANCE

Electrical Characteristics:

1.0-250.0MHz Impedance (ohms)	100 ± 15
1.0-250.0MHz Delay Skew (ns/100m)	<=45
Pair-to-Ground Capacitance Unbalance (pF/100m)	<=330
Max. Conductor DC Resistance 20°C (ohms/km)	106
Resistance Unbalance (%)	<=5

Frequency (MHz)	Return loss (Min dB)	Attenuation Max	NEXT (Min dB)	PSNEXT Min (dB)
1	20.0	2.1	74.3	72.3
4	23.0	3.8	65.3	63.3
8	24.5	5.3	60.8	58.8
10	25.0	5.9	59.3	57.3
16	25.0	7.5	56.2	54.2
20	25.0	8.4	54.8	52.8
25	24.3	9.4	53.3	51.3
31.25	23.6	10.5	51.9	49.9
62.5	21.5	15.0	47.4	45.4
100	20.1	19.1	44.3	42.3
200	18.0	27.6	39.8	37.8
250	17.3	31.1	38.3	36.3
300	16.8	34.3	37.1	35.1
400	15.9	40.1	35.3	33.3
500	15.2	45.3	33.8	31.8

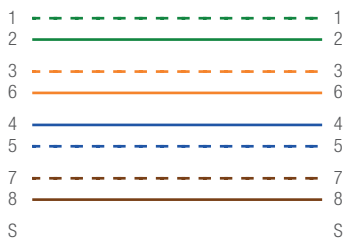
Frequency (MHz)	ACR-F Min (dB)	PSACR-F Min (dB)	Delay Max (ns/100m)
1	67.8	64.8	570.0
4	55.8	52.8	552.0
8	49.7	46.7	547.0
10	47.8	44.8	545.0
16	43.7	40.7	543.0
20	41.8	38.8	542.0
25	39.8	36.8	541.0
31.25	37.9	34.9	540.0
62.5	31.9	28.9	539.0
100	27.8	24.8	538.0
200	21.8	18.8	537.0
250	19.8	16.8	536.0
300	18.3	15.3	536.0
400	15.8	12.8	536.0
500	13.8	10.8	536.0

* Values above 250MHz are information only

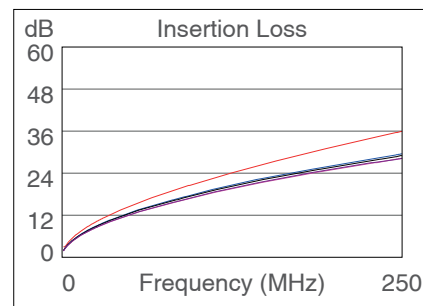
MECHANICAL CHARACTERISTICS:

Test Object	Jacket		
Test Material	PVC		
	Before	Tensile Strength (Mpa)	>=13.8
	Aging	Elongation (%)	>=100
Aging Condition (°Cxhrs)	100x168		
	After	Tensile Strength (Mpa)	>=85% of unaged
	Aging	Elongation (%)	>=50% of unaged
Cold Bend(-20±2°Cx4hrs)	No crack		

Wire Map (T568A) PASS



Length (ft), Limit 328	[Pair 36]	332
Prop. Delay (ns), Limit 555		504
Delay Skew (ns), Limit 50		15
Resistance (ohms)	[Pair 12]	22.6
Insertion Loss Margin (dB)	[Pair 12]	3.7
Frequency (MHz)	[Pair 12]	250.0
Limit (dB)	[Pair 12]	35.9



	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	12-36	36-78	36-78	36-78
NEXT (dB)	4.1	2.7	10.6	8.9
Freq. (MHz)	10.3	14.4	188.0	206.5
Limit (dB)	56.4	54.0	35.2	34.5
Worst Pair	12	78	36	78
PS NEXT (dB)	4.8	4.6	11.1	11.2
Freq. (MHz)	10.3	14.4	188.5	198.0
Limit (dB)	53.8	51.4	32.3	31.9

PASS	MAIN	SR	MAIN	SR
Worst Pair	78-36	36-78	78-36	36-78
ACR-F (dB)	2.2	2.5	2.2	2.5
Freq. (MHz)	220.0	220.0	220.0	220.0
Limit (dB)	16.4	16.4	16.4	16.4
Worst Pair	36	78	45	78
PS ACR-F (dB)	5.0	4.9	5.2	4.9
Freq. (MHz)	220.0	220.0	231.5	220.0
Limit (dB)	13.4	13.4	13.0	13.4

	Worst Case Margin		Worst Case Value	
N/A	MAIN	SR	MAIN	SR
Worst Pair	12-36	36-78	12-45	36-78
ACR-N (dB)	4.8	3.6	17.9	13.1
Freq. (MHz)	10.3	14.4	244.5	206.5
Limit (dB)	50.0	46.4	-2.2	2.4
Worst Pair	12	36	12	78
PS ACR-N (dB)	5.3	5.5	19.8	19.6
Freq. (MHz)	10.3	3.4	244.5	249.5
Limit (dB)	47.4	58.0	-5.2	-5.7

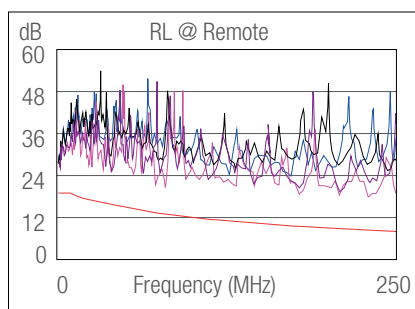
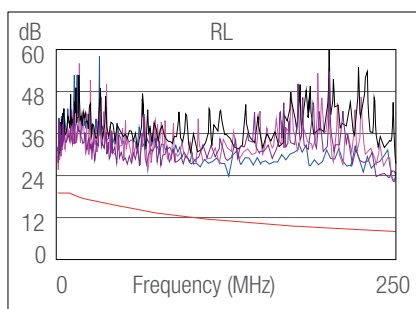
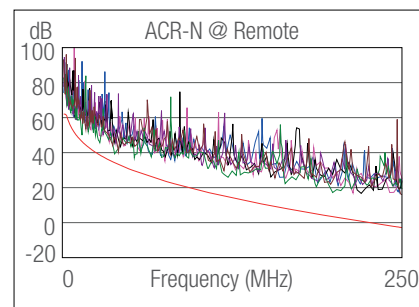
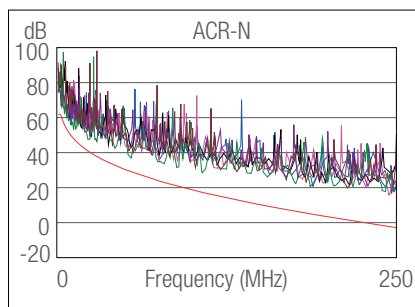
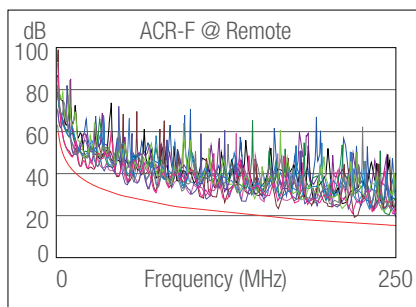
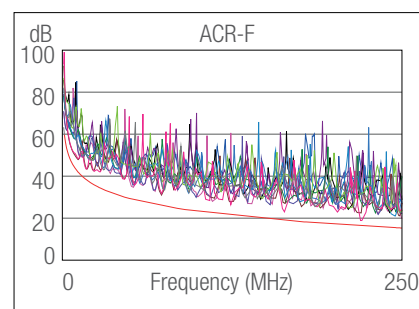
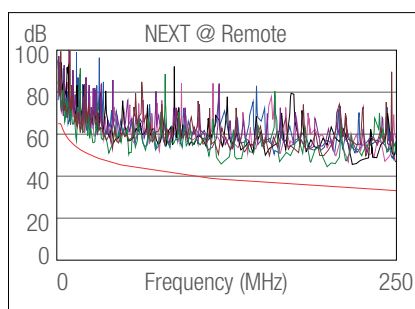
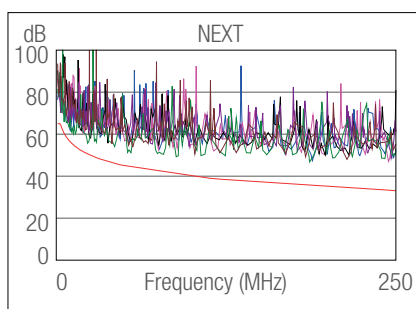
PASS	MAIN	SR	MAIN	SR
Worst Pair	36	36	36	36
RL (dB)	9.5	7.1	14.2	9.2
Freq. (MHz)	2.5	2.4	249.0	233.5
Limit (dB)	19.0	19.0	8.0	8.3

Compliant Network Standards:

10BASE-T
100BASE-T
ATM-155
TR-16 Active

100BASE-TX
ATM-25
100VG-AnyLan
TR-16 Passive

100BASE-T4
ATM-51
TR-4



Cable ID: CB-CAT6-0.57-CCA-UTP-W/F

Date / Time: 04/13/2021 01:33:04pm

Headroom: 2.7 dB (NEXT 36-78)

Test Limit: TIA Cat 6 Channel

Cable Type: Cat 6 U/UTP

Operator: Tina/Changbao

Software Version: 2.7800

Limits Version: 1.9500

NVP: 69.0%

Model: DTX-1800

Main S/N: 1672031

Remote S/N: 1672032

Main Adapter: DTX-CHA002

Remote Adapter: DTX-CHA002

MECAB