

NEWPOWER CAT6

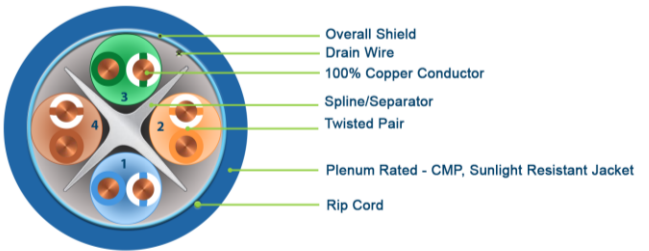
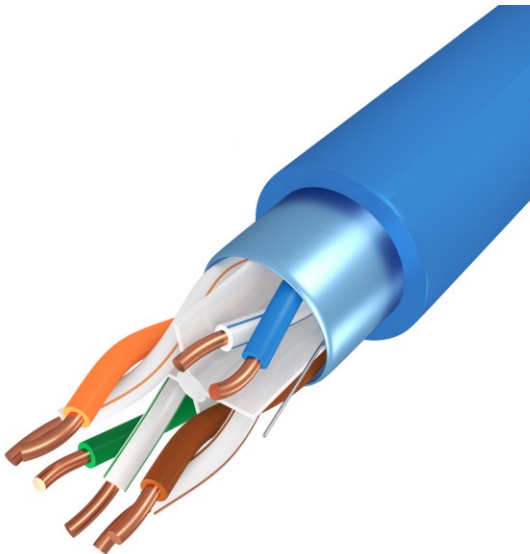


Applications:

- Gigabit Ethernet
- Multimedia
- Video and audio
- data
- Residential complexes
- offices
- Factories

NEWPOWER CAT6 A cable ensures connection reliability and maximum signal transmission, it is anti-oxidation and corrosion resistant with long life performance, CAT6 Ethernet cable supports data transmission speeds up to 250MHz (10 times faster than Cat5 cables).

Technical Specifications	Description
Type	STP
Number of pairs	4 pairs
Rated voltage	24 V
Resistance	7.6/100m
Wire gauge	23 AWG
Material	PVC
Length	305 m
Ta	-20 ~+55 °C
Stranding	Solid
Conductor Count:	8
Insulation	Polyethylene
Conductor DCR	> 4%
Impedance	91.21 ~ 111.36
Delay skew	20 ns/100m
Coupling Attenuation Class:	Type III
Segregation class	a
Data Category:	Category 6
ISO/IEC Compliance:	ISO/IEC 11801
CENELEC Compliance:	EN 50173-1
CPR Euroclass:	Eca
ANSI Compliance:	ANSI/TIA/EIA 568-C.2
ISO/IEC Flammability:	IEC 60332-1
Color pair 1	White/Blue & Blue
Color pair 2	White/Orange & Orange
Color pair 3	White/Green & Green
Color pair 4	White/Brown & Brown
Main Color	Blue



ITEM	UNIT	Standard		results
Phase delay	Ns/100m	Frequency (Mhz)	Standard Value	
		4	W552	508.14
		8	W547	502.36
		10	W545	501.25
		16	W543	498.73
		20	W542	497.31
		25	W541	497.49
		31.25	W540	496.67
		62.5	W539	494.02
		100	W538	493.79
		200	W537	492.26
		250	W536	491.44

NEWPOWER CAT6



CAT6 FTP TEST REPORT

Wire Map (T568B)
PASS

103.9 m

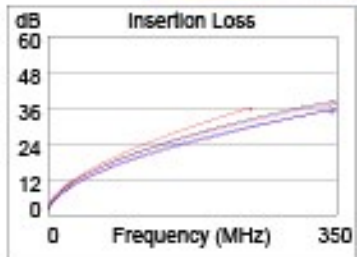


Length (m), Limit 100.0
 Prop. Delay (ns), Limit 555
 Delay Skew (ns), Limit 50
 Resistance (ohms)

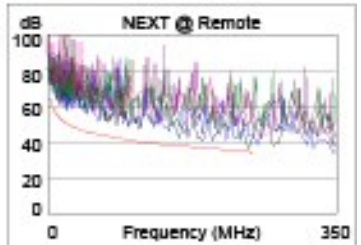
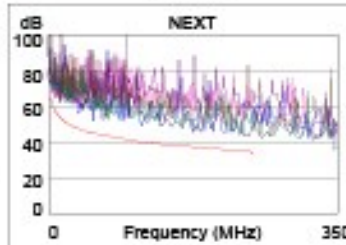
[Pair 78] 103.9
 536
 41
 [Pair 45] 15.2

Insertion Loss Margin (dB)
 Frequency (MHz)
 Limit (dB)

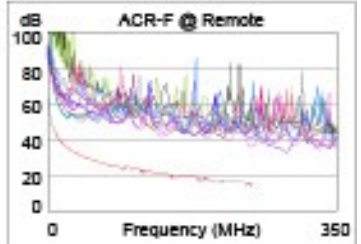
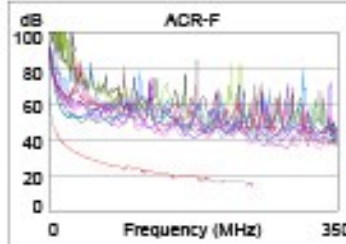
[Pair 45] 3.4
 [Pair 45] 250.0
 [Pair 45] 35.9



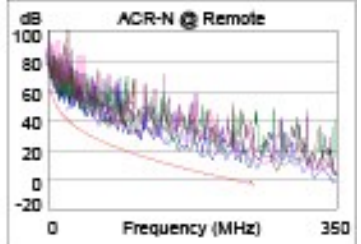
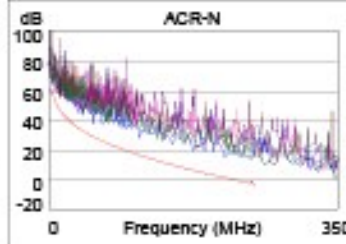
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	12-36	12-78	12-78	12-78
NEXT (dB)	6.0	3.2	6.6	3.2
Freq. (MHz)	36.5	245.5	239.0	245.5
Limit (dB)	47.3	33.3	33.5	33.3
Worst Pair	45	12	78	12
PS NEXT (dB)	7.4	5.2	8.8	5.2
Freq. (MHz)	3.9	245.5	239.0	245.5
Limit (dB)	60.8	30.3	30.5	30.3



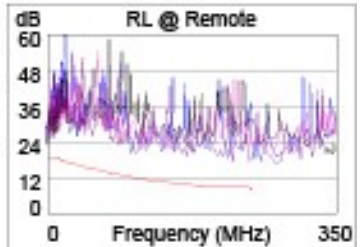
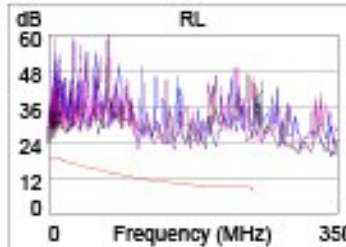
PASS	MAIN	SR	MAIN	SR
Worst Pair	36-45	45-36	12-45	12-45
ACR-F (dB)	15.2	15.5	22.2	20.6
Freq. (MHz)	18.6	18.6	250.0	250.0
Limit (dB)	37.9	37.9	15.3	15.3
Worst Pair	45	36	45	12
PS ACR-F (dB)	17.5	17.6	23.7	23.2
Freq. (MHz)	18.6	18.6	191.5	250.0
Limit (dB)	34.9	34.9	14.6	12.3



N/A	MAIN	SR	MAIN	SR
Worst Pair	12-36	12-36	12-78	12-78
ACR-N (dB)	6.7	6.7	12.4	9.3
Freq. (MHz)	36.5	24.1	239.0	245.5
Limit (dB)	34.9	40.3	-1.5	-2.3
Worst Pair	45	36	78	12
PS ACR-N (dB)	7.5	7.4	14.6	11.5
Freq. (MHz)	3.9	3.9	239.0	245.5
Limit (dB)	56.8	56.8	-4.5	-5.3



PASS	MAIN	SR	MAIN	SR
Worst Pair	45	45	12	78
RL (dB)	5.7	6.2	12.0	9.0
Freq. (MHz)	5.0	3.1	203.0	250.0
Limit (dB)	19.0	19.0	8.9	8.0



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