

# (1) CAT6E 600MHz UTP Cable + (1) RG-6 Quad Shield Coaxial Cable

## Cable Detail



## Approval



## Description

- Combination: RG-6 Quad Shield + CAT6E 600MHz UTP Cable

## CAT6 UTP - Physical Characteristics

Conductor Material		Bare Solid Copper
AWG		23AWG
Insulation Material		HDPE
Jacket Material		Flame retardant PVC
Conductor Diameter	(mm)	0.57
Insulation Diameter	(mm)	0.23 Nom.
Outer Diameter	(mm)	6.5 Nom.
Insulation colors		White insulation with stripe (White/Blue, White/Green, White/Brown, White/Orange.)

## RG-6 Quad Shield - Physical Characteristics

Center Conductor	1.02+0.01mm Copper Cover Steel
Dielectric	4.57+0.05mm Foam PE
Shield	Bonded Al Foil
Braid Coverage	60%: 80/0.12+0.005mm Al-Mag
Shield	Bonded Al Foil
Braid Coverage	40%: 48/0.12+0.005mm Al-Mag
Jacket	7.34+0.10mm PVC UL CMR/CL2
Sparker Test	4000VAC
Impedance	75+3 Ohm
Capacitance	54+3pF/m
Velocity of Propagation	85%
Return Loss	20dB min (5-2300MHz)

## CAT6 UTP - Electrical Characteristics

Frequency (MHz)	Attenuation (dB/100m) Max.	RL (dB) Min.	NEXT (dB) Min.	PS-NEXT (dB) Min.
1	2.10	20.0	75.3	72.3
4	3.80	23.0	66.3	63.3
8	5.30	24.5	61.8	58.8
10	5.90	25.0	60.3	57.3
16	7.50	25.0	57.2	54.2
20	8.40	25.0	55.8	52.8
25	9.40	24.3	54.3	51.3
31.25	10.50	23.6	52.9	49.9
62.5	15.00	21.5	48.4	45.4
100	19.10	20.1	45.3	42.3
200	27.60	18.0	40.8	37.8
250	31.10	15.6	39.3	36.6
300	34.30	16.8	38.1	35.1
500	-	15.2	34.8	35.1
600	-	14.7	33.6	30.6

  

Frequency (MHz)	ELFEXT (dB/100m) Min.	PS-ELFEXT (dB) Min.	Delay (<=ns)
1	68.0	65.00	552
4	56.0	53.00	546
8	49.9	46.90	545
10	48.0	45.00	543
16	43.3	40.90	542
20	42.0	39.00	541
25	40.0	37.00	540
31.25	38.1	35.10	538
62.5	32.1	29.10	537
100	28.0	25.00	536
200	22.0	19.00	535
250	20.0	17.00	534
300	18.5	15.50	534
500	14.0	11.00	-
600	12.0	10.00	-

\* Values above 250MHz are information only.

## RG-6 Quad Shield - Electrical Characteristics

Frequency	[ @68°F (20°C) ]	
	Maximum (dB/100ft)	Maximum (dB/100m)
50	1.5	4.9
100	2.0	6.5
200	2.8	9.2
400	4.0	13.1
700	5.6	18.4
900	6.2	20.3
1000	6.6	21.6
1450	8.0	26.2
1800	8.5	27.9
2100	9.5	31.1
2250	10.0	32.8
3000	11.40	37.38

## Cable Marking

CMR CAT6E 600 MHZ 4PR 23 AWG AND RG6 QUAD TYPE CMR FT4 18 AWG C(ETL)US XXXXXXXX SWEPT TO 3.0 GHZ RM A B C D E F 1 2 3 4 5 6 7 8\*\*\*\*FT

Part Numbers	Jacket Color	Package
H16E16QMBL2-500	Blue	500ft / Reel