

GTCAT6OUT

CAT6 UTP/PE



Construction	
Material	Solid Bare Copper
Length	305m
Conductor Dia. (mm)	0.54mm+/- 0.005mm
Insulation	
Insulation Dia.	0.98mm (nominal)
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core, HDPE Cross
Core Colours	
Blue/White/Blue, Orange/White/Orange, Green/White/Green, Brown/White/Brown	
Jacket	
Material	LDPE
Thickness	Thickness:≥0.50mm
Diameter	6.1mm+/-0.3mm(nominal)
Jacket Colour	
Black RAL9005	
Electrical Characteristics	
Resistance unbalance	2.50%
Propagation delay	£ 498 ns/100 m
Delay skew	£ 44 ns/100 m
Mutual Capacitance	56 pF/km
Capacitance unbalance (pair to ground)	330 pF/km
Mechanical Properties	
Minimum bending radius	8 x D
Maximum pulling force	90 N
Temperature range	Operation -40°C up to + 80°C Installation -10°C up to + 70°C

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Technical Performance (100m):

Frequency (MHz)	Return loss dB	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB/100m)
1	19	62.1	65	19
4	21	60.6	64.1	21
8	21	54.4	59.4	21
10	21	52.3	57.8	21
16	20	47.6	54.6	20
20	19.5	45.2	53.1	19.5
25	19	42.7	51.5	19
31.25	18.5	40	50	18.5
62.5	16	30.8	45.1	16
100	14	23.4	41.8	14
125	13	19.4	40.3	13
200	11	9.9	36.9	11
250	10	4.6	35.3	10

Frequency (MHz)	IL (dB/100m)	PS-ACR-N (dB/100m)	ACR-N (dB/100m)	ACR-N (dB/100m)
1	3	59	64.2	61.2
4	3.5	58.3	52.2	49.2
8	5	52.1	46.1	43.1
10	5.6	49.9	44.2	41.2
16	7	45.2	40.1	37.1
20	7.9	42.8	38.2	35.2
25	8.9	40.2	36.2	33.2
31.25	10	37.6	34.3	31.3
62.5	14.4	28.3	28.3	25.3
100	18.6	20.8	24.2	21.2
125	21	16.8	22.2	19.3
200	27.4	7.2	18.2	15.2
250	31.1	2	16.2	13.2