

at the heart of every project

LAN CAT 6 UTP

Specification: TIA/EIA 568-C.2, ISO/IEC 11801 & IEC 61156-5



MESC PART No.: MA62-04P23AWG-U0GY8-00

Application: This cable are intended to be used for low loss extended frequency data systems that operate up to 250 MHz, Suitable for building structured cabling supports IP-based security and building automation systems.

Construction:

- Conductor** : 8, twisted in 4 pairs, 23 AWG solid copper
- Insulation** : Polyethylene insulated
- Pair assembly** : Twisted pairs assembled with a center separator
- Outer jacket** : Grey PVC (RAL 7037) color jacket
- Printing Text** : MESC LAN CAT 6 (EIA/TIA 568-C.2, ISO/IEC 11801& IEC 60332-1) 4P X 23AWG UTP YEAR

COLOR CODE CHART & DIMENSIONAL DETAILS:

Pairs	Conductor A Wire	Conductor B Wire	Cable O.D.	Approx. Weight
1	White/Blue	Blue	mm	kg/km
2	White/Orange	Orange	6.2	40
3	White/Green	Green		
4	White/Brown	Brown		

*NOTE: Packing: Available in 1000 Ft. (305 Mt.) length on box.
UTP - Unshielded Twisted Pair*

ELECTRICAL DATA:

Conductor Resistance @ 20°C	Ω/100 m	9.38
Resistance Unbalance	%	< 2
Mutual Capacitance	nF/100m	5.4
Capacitance unbalance, pair to ground	pF/100m	< 330
Insulation Resistance	MΩ-Km	>5000
Dielectric Strength	kV dc/2sec	1.7

MECHANICAL, INSTALLATION & FLAME PERFORMANCE DATA:

Operational temperature range	°C	-20 to +60
Installation temperature range	°C	0 to +50
Maximum installation tensile load	Kg	8
Minimum bending radius installation	mm	70
Minimum bending radius fixed	mm	45
Dielectric Strength	kV dc/2sec	1.7
Suitable Indoor use		Yes
Suitable Outdoor use		No
Flame Retardance		IEC60332-1

TRANSMISSION DATA:

Frequency MHz	Attenuation, dB/100m 20°C	PS NEXT Loss, dB	NEXT Loss, dB	RL, dB	(ELFEXT), dB	PS (ELFEXT), dB
1	2.0	72.3	74.3	20.0	67.8	64.8
4	3.8	63.3	65.3	23.0	55.8	52.8
8	5.3	58.8	60.8	24.5	49.7	46.7
10	6.0	57.3	59.3	25.0	47.8	44.8
16	7.6	54.2	56.2	25.0	43.7	40.7
20	8.5	52.8	54.8	25.0	41.8	38.8
25	9.5	51.3	53.3	24.2	39.8	36.8
31.25	10.7	49.9	51.9	23.3	37.9	34.9
62.50	15.4	45.4	47.4	20.7	31.9	28.9
100	19.8	42.3	44.3	19.0	27.8	24.8
200	29.0	37.8	39.8	16.4	21.8	18.8
250	32.8	36.3	38.3	15.6	19.8	16.8