

M E S C

Middle East Specialized Cables Co.

CAT 6A, Twisted Pair, S/FTP, LSHF Jacket EIA/TIA-568-C.2



APPLICATION	These cables are intended to be used for low loss extended frequency data systems that operate up to 500 MHz
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CONSTRUCTION:

Conductor	Solid annealed copper 23 AWG
Insulation	Foam polyethylene.
Color code	White/Blue, White/Orange, White/Green, White/Brown
Pair shield	Each pair is shielded with a Aluminum polyester tape
Assembly	Shielded twisted pairs are assembled with a solid tinned copper drain & Braided with tinned copper wires.
Outer jacket	Flame retardant LSHF with color Grey.
Printing text	MESC CAT 6A 4PR23AWG LSHF EIA/TIA 568-C.2 YEAR METER MARKING

MECHANICAL CHARACTERISTICS:

Minimum bending radius	10 X D Installed
Operation range	70 °C

ELECTRICAL CHARACTERISTICS:

Frequency	1 – 500 MHz
Impedance	100+/- 15 Ω
Mutual Capacitance	≤ 56 nF/km
Resistance Unbalance	≤ 4 %
Conductor Resistance @ 20°C	9.38 Ω/100 m
Min. insulation resistance	>2GΩ·km
Propagation velocity	74 %
Halogen acid gas (outer sheath)	≤ 0.5% (IEC 60754-1)
Limiting Oxygen index (outer sheath)	≥ 30 (ASTM D2863)

TRANSMISSION CHARACTERISTICS @20°C:

frequency MHz	Attenuation, dB/100m (Max)	NEXT Loss, dB (Min)	PS NEXT Loss, dB (Min)	RL, dB (Min)	ACRF dB (Min)	PSACRF dB (Min)
4	3.8	65.3	63.3	23.0	55.8	52.8
10	5.9	59.3	57.3	25.0	47.8	44.8
16	7.5	56.2	54.2	25.0	43.7	40.7
20	8.4	54.8	52.8	25.0	41.8	38.8
31.25	10.5	51.9	49.9	23.6	37.9	34.9
62.5	15.0	47.4	45.4	21.5	31.9	28.9
100	19.1	44.3	42.3	20.1	27.8	24.8
200	27.6	39.8	37.8	18.0	21.8	18.8
250	31.1	38.3	36.3	17.3	19.8	16.8
500	45.3	33.8	31.8	15.2	13.8	10.8

DIMENSION AND WEIGHT:

Item #	MESC code for Grey color jacket	Cable O.D.	Weight
	MD63-04P23AWG-U2GY8-H0	8.7 mm	76 kg/km