

M E S C

MIDDLE EAST SPECIALIZED CABLES COMPANY

CAT 6A, Twisted Pair, S/FTP, LSHF Jacket

TIA/EIA-568-C.2



-REV.3 10.09.16

Application	These cables are intended to be used for low loss extended frequency data systems that operate up to 500 MHz
--------------------	--

Construction:

Conductor	Solid annealed copper 23 AWG
Insulation	Foam polyethylene.
Color code	White/Blue +Blue, White/Orange+ Orange, White/Green+ Green, White/Brown+ 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
Packing	1000 Feet box

NOTE: Halogen free thermosetting jacket for offshore application is available upon request

Mechanical characteristics:

Minimum bending radius	4 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 %
Direct current conductor resistance	72.0 Ω/km
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)

M E S C

MIDDLE EAST SPECIALIZED CABLES COMPANY

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



Transmission characteristics at 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

Dimensions:

MESC code for grey color jacket	Cable O.D.	Weight
MD63-04P23AWG-U2GYM-H0	8.7 mm	76 kg/km