

# M E S C

Middle East Specialized Cables Co.

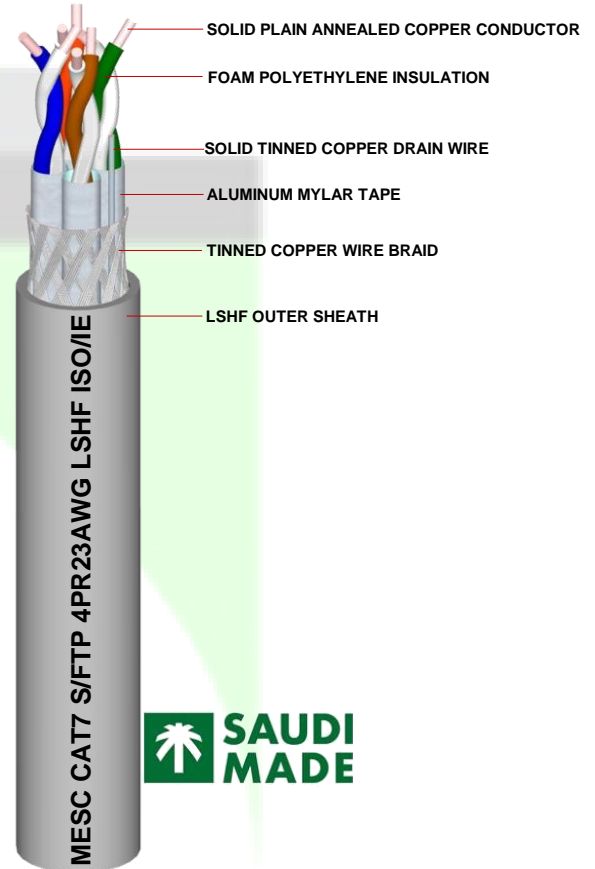
## CAT 7, Twisted Pair, S/FTP, LSHF Jacket Specification: ISO/IEC 11801:2002



<b>APPLICATION</b>	These cables are intended to be used for low loss extended frequency data systems that operate up to 600 MHz
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### CONSTRUCTION:

<b>Conductor</b>	Solid annealed copper 23 AWG
<b>Insulation</b>	Foam polyethylene.
<b>Color code</b>	White + Blue, White + Orange, White + Green, White + Brown
<b>Pair shield</b>	Each pair is shielded with a Aluminum polyester tape
<b>Assembly</b>	Shielded twisted pairs are assembled with a solid tinned copper drain & Braided with tinned copper wires.
<b>Outer jacket</b>	Flame retardant LSHF with color Grey.
<b>Printing text</b>	MESC CAT7 S/FTP 4PR23AWG LSHF ISO/IEC 11801 YEAR METER MARKING



### Mechanical characteristics:

<b>Minimum bending radius</b>	10 X D Installed
<b>Operation range</b>	80 °C

### Electrical characteristics:

<b>Frequency</b>	1 - 600 MHz
<b>Impedance</b>	100+/- 15 Ω
<b>Direct current conductor resistance</b>	9.38 Ω/100 m
<b>Min. insulation resistance</b>	>2GΩ•km
<b>Propagation velocity</b>	74 %
<b>Halogen acid gas (outer sheath)</b>	≤ 0.5% ( IEC 60754-1)
<b>Limiting Oxygen index (outer sheath)</b>	≥ 30 (ASTM D2863)

### DIMENSION AND WEIGHT TABLE:

MESC code for grey color jacket	Cable O.D.	Weight
MB63-04P23AWG-U2GY8-H0	8.7 mm	76 kg/km

### Transmission characteristics at 20°C:

frequency MHz	Attenuation, dB/100m	NEXT Loss, dB	PS NEXT Loss, dB	PS ELFEXT, dB	PS ACR, dB	RL, dB
4	3.7	80.0	77.0	75.0	73.3	23
10	5.9	80.0	77.0	71.0	71.1	25
16	7.4	80.0	77.0	66.9	69.6	25
20	8.3	80.0	77.0	65.0	68.7	25
31.2	10.4	80.0	77.0	61.1	66.6	23.7
62.5	14.9	75.5	72.5	55.1	57.6	21.5
100	19.0	72.4	69.4	51.0	50.4	20.1
155	24.0	69.5	66.5	47.2	42.6	18.8
250	31.0	66.4	63.4	43.0	32.5	17.3
600	50.1	60.7	57.7	35.4	7.6	17.3