

# MLX 42

HIGH PERFORMANCE BROADBAND LOW LOSS 50 OHM COAXIAL COMMUNICATION CABLE DESIGNED FOR USE IN WIRELESS APPLICATIONS

Class CPR ECA

**CU** 19 X 0,28 mm    **PEG** Ø 3,80 mm    **LTA** Ø 3,90 mm    **CA** Ø 4,30 mm    **PVC2** Ø 5,40 mm



## TECHNICAL DATA

A	INNER CONDUCTOR	Plain copper	19 x 0,28 mm
B	DIELECTRIC	Gas injected skin-foam-skin polyethylene	Ø 3,80 ± 0,10 mm
C	SHIELD	Aluminium + Polyester + Aluminium tape Coverage	h. 15 mm 100%
D	BRAID	Tinned copper Coverage	128 x 0,10 mm 77%
E	SHEATH	Non-contaminating Polyvinyl-Chloride Colour Printing ##METER## MALUX MLX42 HIGH PERFORMANCE LOW LOSS 50 OHM WEEK/YEAR	Ø 5,40 ± 0,10 mm Black - RAL 9004

### MINIMUM BENDING RADIUS (mm)

Single	Ø External X 5
Repeated	Ø External X 10
Temperature range	-30°C to +70°C

### CABLE WEIGHT (Kg/Km)

Copper	20,3
Plastic	16,6
Total	38,3

## ELECTRICAL PROPERTIES AT +20°C

Impedance @ 200 MHz	Capacitance	Velocity ratio	Resistance		Tension
50 ± 3 Ohm	80pF/m	84%	Inner conduct: 15,5 Ohm/Km	Braid: 16,2 Ohm/km	Sheath spark testing: 2,5 kV

### ATTENUATIONS dB/100 m.

	dB	W
5 MHz	2,5	3253
10 MHz	3,3	2300
30 MHz	5,4	1328
50 MHz	5,9	1029
150 MHz	11,3	594
220 MHz	13,7	490

### MAX. POWER RATING W

	dB	W
450 MHz	20,0	343
600 MHz	23,3	297
800 MHz	27,3	257
900 MHz	28,9	242
1000 MHz	30,8	230
1500 MHz	38,5	188

	dB	W
1800 MHz	42,6	171
2000 MHz	45,4	163
2500 MHz	50,4	145
3000 MHz	55,8	133
5200 MHz	77,1	101
5800 MHz	81,8	96

### STRUCTURAL RETURN LOSS dB

30 ÷ 450 MHz	<28	2000 ÷ 3000 MHz	<19
450 ÷ 1000 MHz	<25	3000 ÷ 4000 MHz	<19
1000 ÷ 2000 MHz	<22	4000 ÷ 5800 MHz	<10

### SCREENING EFFECTIVENESS dB

100 ÷ 900 MHz	<90
900 ÷ 2000 MHz	<80
2000 ÷ 3000 MHz	<70

\* Standards: RoHs compliant 3 Resistance to flame propagation according to ECE Regulation No. 118, Annex 10 (R118.03)  
\*\* Customize lengths and connectors on request. The producer reserves themselves to make modification on the item without any notice.