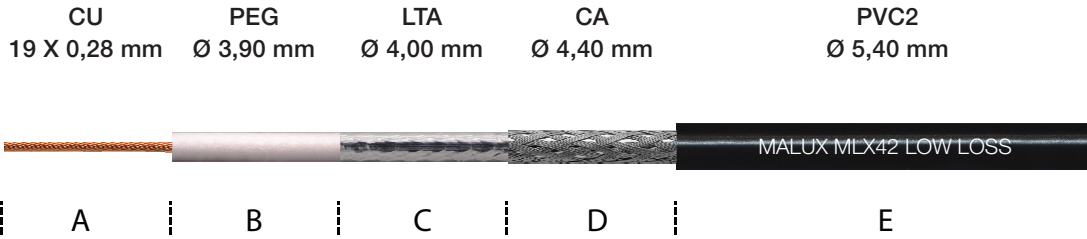


# MLX 42

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

Class CPR ECA



## TECHNICAL DATA

A	INNER CONDUCTOR	Plain copper	19 x 0,28 mm
B	DIELECTRIC	Gas injected skin-foam-skin polyethylene	Ø 3,90 ± 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 ± 0,20 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	15,8
Total	37,5

## 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				dB		W	
5	MHz	2,3	3253	450	MHz	20,0	343	1800	MHz	41,6	171
10	MHz	3,2	2300	600	MHz	23,1	297	2000	MHz	44,7	163
30	MHz	5,0	1328	800	MHz	26,5	257	2500	MHz	50,4	145
50	MHz	6,7	1029	900	MHz	28,9	242	3000	MHz	55,1	133
150	MHz	10,9	594	1000	MHz	30,5	230	5200	MHz	77,6	101
220	MHz	13,6	490	1500	MHz	37,6	188	5800	MHz	81,8	96

### STRUCTURAL RETURN LOSS dB

30 ÷ 450	MHz	>22	2000 ÷ 3000	MHz	>17
450 ÷ 1000	MHz	>21	3000 ÷ 4000	MHz	>16
1000 ÷ 2000	MHz	>18	4000 ÷ 5800	MHz	>15

### SCREENING EFFECTIVENESS dB

100 ÷ 900	MHz	>95
900 ÷ 2000	MHz	>90
2000 ÷ 3000	MHz	>80

\* Standards: RoHs compliant 3 \*\* Customize lengths and connectors on request. The producer reserves themselves to make modification on the item without any notice.