Malux solutions

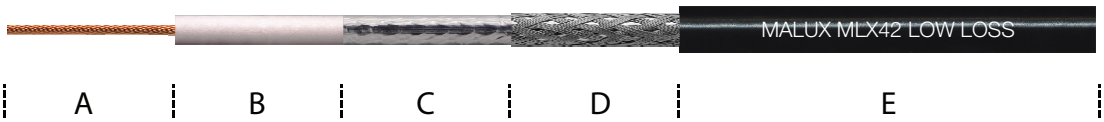
Part number: 783517 100m bobin

MLX 42

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

Class CPR ECA

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



A B C D E

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	**h. 15 mm**
		Coverage	**100%**
D	BRAID	Tinned copper	**128 x 0,10 mm**
		Coverage	**77%**
E	SHEATH	Non-contaminating Polyvinyl-Chloride	**Ø 5,40 ± 0,10 mm**
		Colour	**Black - RAL 9004**
		Printing ##METER## MALUX MLX42 HIGH PERFORMANCE LOW LOSS 50 OHM **WEEK/YEAR**	

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

STRUCTUAL RETURN LOSS dB

30 ÷ 450	MHz	**<28**
450 ÷ 1000	MHz	**<25**
1000 ÷ 2000	MHz	**<22**

2000 ÷ 3000	MHz	**<19**
3000 ÷ 4000	MHz	**<19**
4000 ÷ 5800	MHz	**<10**

SCREENING EFFECTIVENESS dB

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

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