Ham Radio Pro Cables

MRP AIRBORNE

MESSI & PAOLONI

RoHS COMPLIANT 2002/95/EG

1,4 Kg/100m lighter than RG58

3,6 dB/100m better @50 MHz than RG58

AC/5 PLUS Airborne

Waterproof

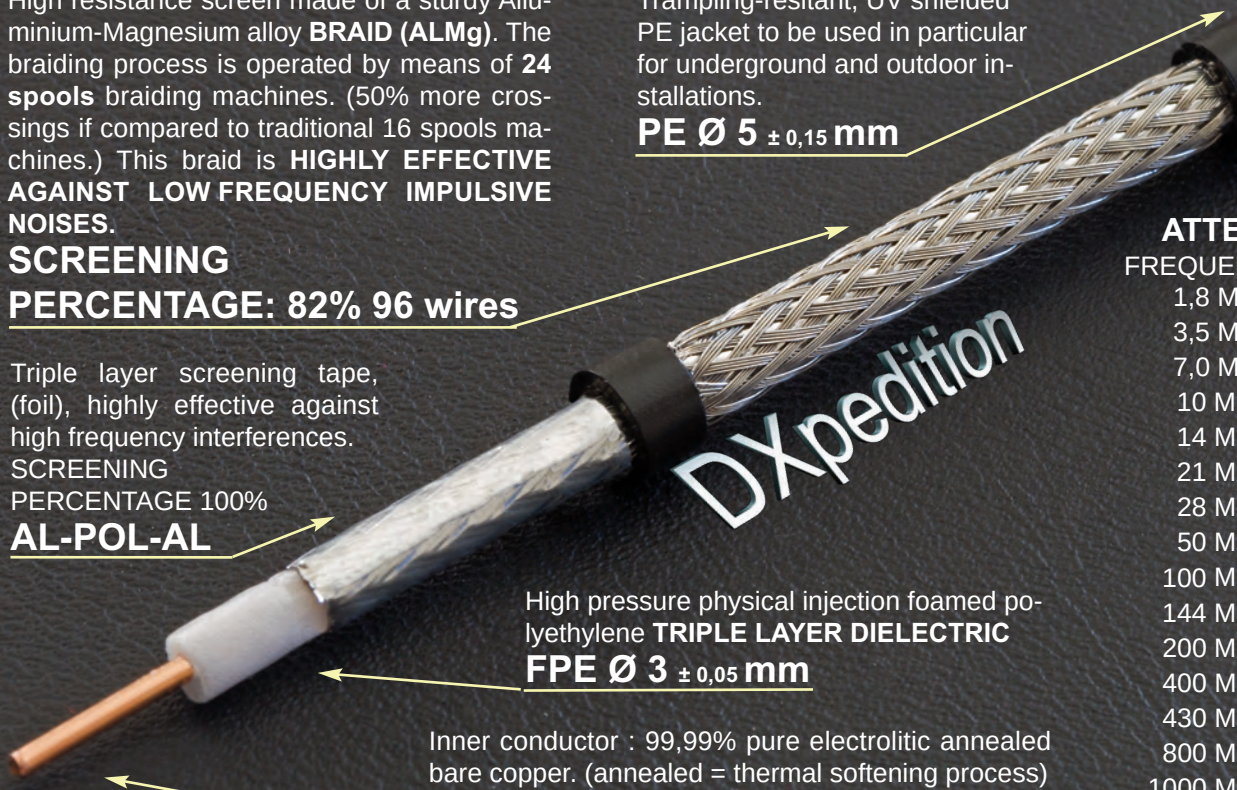
Sturdy

High resistance screen made of a sturdy Alluminium-Magnesium alloy **BRAID (ALMg)**. The braiding process is operated by means of **24 spools** braiding machines. (50% more crossings if compared to traditional 16 spools machines.) This braid is **HIGHLY EFFECTIVE AGAINST LOW FREQUENCY IMPULSIVE NOISES.**

SCREENING PERCENTAGE: 82% 96 wires

Trampling-resitant, UV shielded PE jacket to be used in particular for underground and outdoor installations.

PE Ø 5 ± 0,15 mm



Triple layer screening tape, (foil), highly effective against high frequency interferences.
SCREENING PERCENTAGE 100%

AL-POL-AL

High pressure physical injection foamed polyethylene **TRIPLE LAYER DIELECTRIC**

FPE Ø 3 ± 0,05 mm

Inner conductor : 99,99% pure electrolitic annealed bare copper. (annealed = thermal softening process)

Cu Ø 1,13 mm

ATTENUATION at 20°C

FREQUENCY	dB/100m	dB/100ft
1,8 MHz	1,07	0,33
3,5 MHz	1,46	0,45
7,0 MHz	2,25	0,69
10 MHz	2,92	0,89
14 MHz	3,83	1,17
21 MHz	4,68	1,43
28 MHz	5,37	1,64
50 MHz	6,98	2,13
100 MHz	9,38	2,86
144 MHz	11,0	3,35
200 MHz	12,85	3,92
400 MHz	18,38	5,60
430 MHz	19,01	5,79
800 MHz	26,57	8,10
1000 MHz	29,88	9,11
1200 MHz	32,95	10,04
2400 MHz	47,58	14,50
3000 MHz	53,50	16,31

ELECTRICAL DATA

Impedance:	50 Ohm ± 3
Minimum bending radius:	
Multiple bends/single bend	50/25 mm
Temperature:	-45° to + 70° C
Capacitance:	76 pF/m ± 2
Velocity ratio:	85 %
Screening efficiency:	
100-2000 MHz	>105 dB
Class	A++
Inner conductor resistance:	17 Ohm/Km
Outer conductor resistance:	34 Ohm/Km
Tension test (spark test):	8 kV
Weight (100m):	2,35 Kg
Connector:	C.N.AC5M-S C.UHF.AC5M-S
Maximum peak power:	1650 WATT

SRL

0,3-600 MHz	>25 dB
600-1200 MHz	>20 dB
1200-2000 MHz	>18 dB

HINTS ABOUT POWER HANDLING: The cable length is negatively related to the power handling: the longer is the cable length the higher the electrical resistance will be, which turns into heat to dissipate. Moreover unwanted stationary waves ratios, are making the situation even worse. In SSB operations a 5/6 seconds transmission time, followed by the same reception lag, is giving the chance to consider the power handling values in the chart as doubled.

POWER HANDLING

FREQ.	MAXP
1,8 MHz	1320 W
3,5 MHz	1210 W
7,0 MHz	1050 W
10 MHz	990 W
14 MHz	910 W
21 MHz	810 W
28 MHz	720 W
50 MHz	520 W
100 MHz	320 W
144 MHz	242 W
200 MHz	190 W
400 MHz	95 W
430 MHz	90 W
800 MHz	60 W
1000 MHz	54 W
1200 MHz	50 W