Ham Radio Pro Cables

M&P

MESSI & PAOLONI

Mep-Flex 10

EXTRAFLEXIBLE

UV resistant PVC jacket.

PVC Ø 10,3 ± 0,15 mm

RoHS COMPLIANT 2002/95/EG

High resistance copper screen **(Cu)** made by means of **24 spools** braiding machines. This braid is **HIGHLY EFFECTIVE AGAINST LOW FREQUENCY IMPULSIVE NOISES.**

SCREENING PERCENTAGE: 71%

144 wires

Screening foil, highly effective against high frequency interferences.
The copper foil has an applied PE-coating, placed in order to prevent foil cracking due to short radius bends.
SCREENING PERCENTAGE 100%

CU-POL

Inner conductor made of 7X1,0 stranded, geometric and concentric annealed copper wires. Purity 99,99%. (annealed = thermal softening process)

Cu 7x1,0 mm - Ø 3 mm

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

FPE Ø 7,3 ± 0,05 mm

ATTENUATION at 20°C

FREQUENCY	dB/100m	dB/100ft
1,8 MHz	0,43	0,13
3,5 MHz	0,58	0,18
7,0 MHz	0,88	0,27
10 MHz	1,13	0,34
14 MHz	1,47	0,45
21 MHz	1,80	0,55
28 MHz	2,06	0,63
50 MHz	2,76	0,84
100 MHz	3,99	1,22
144 MHz	4,85	1,48
200 MHz	5,76	1,75
400 MHz	8,35	2,55
430 MHz	8,68	2,65
800 MHz	12,29	3,75
1000 MHz	14,00	4,27
1200 MHz	15,47	4,72
2400 MHz	24,86	7,58
3000 MHz	28,58	8,71

ELECTRICAL DATA

Impedance:	50 Ohm ± 3
Minimum bending radius:	
Multiple bends(15)/single bend	80/40 mm
Temperature range:	
installation	-40° to +60° C
operative	-55° to +85° C
Capacitance:	78 pF/m ± 2
Velocity ratio:	83 %
Screening efficiency:	
100-2000 MHz	>105 dB
Class	A++
Inner conductor resistance:	3 Ohm/Km
Outer conductor resistance:	10 Ohm/Km
Tension test (spark test):	8 kV
Weight (100m):	12.4 Kg

Connettori: C.N.BROAD50-M - C.UHF.BROAD50 - C.BROAD.PL259 C.BNC.BROAD50-M

Maximum peak power: 8300 WATT

STRUCTURAL RETURN LOSS

0,3-600 MHz	>28 dB
600-1200 MHz	>25 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	7690 W
3,5 MHz	7430 W
7,0 MHz	6940 W
10 MHz	6550 W
14 MHz	6050 W
21 MHz	5610 W
28 MHz	5290 W
50 MHz	4500 W
100 MHz	3390 W
144 MHz	2780 W
200 MHz	2255 W
400 MHz	1290 W
430 MHz	1260 W
800 MHz	600 W
1000 MHz	430 W
1200 MHz	360 W
2400 MHz	180 W
3000 MHz	90 W