M&P UltraFlex 10 EVOlution /.400" (H2010 EVO)

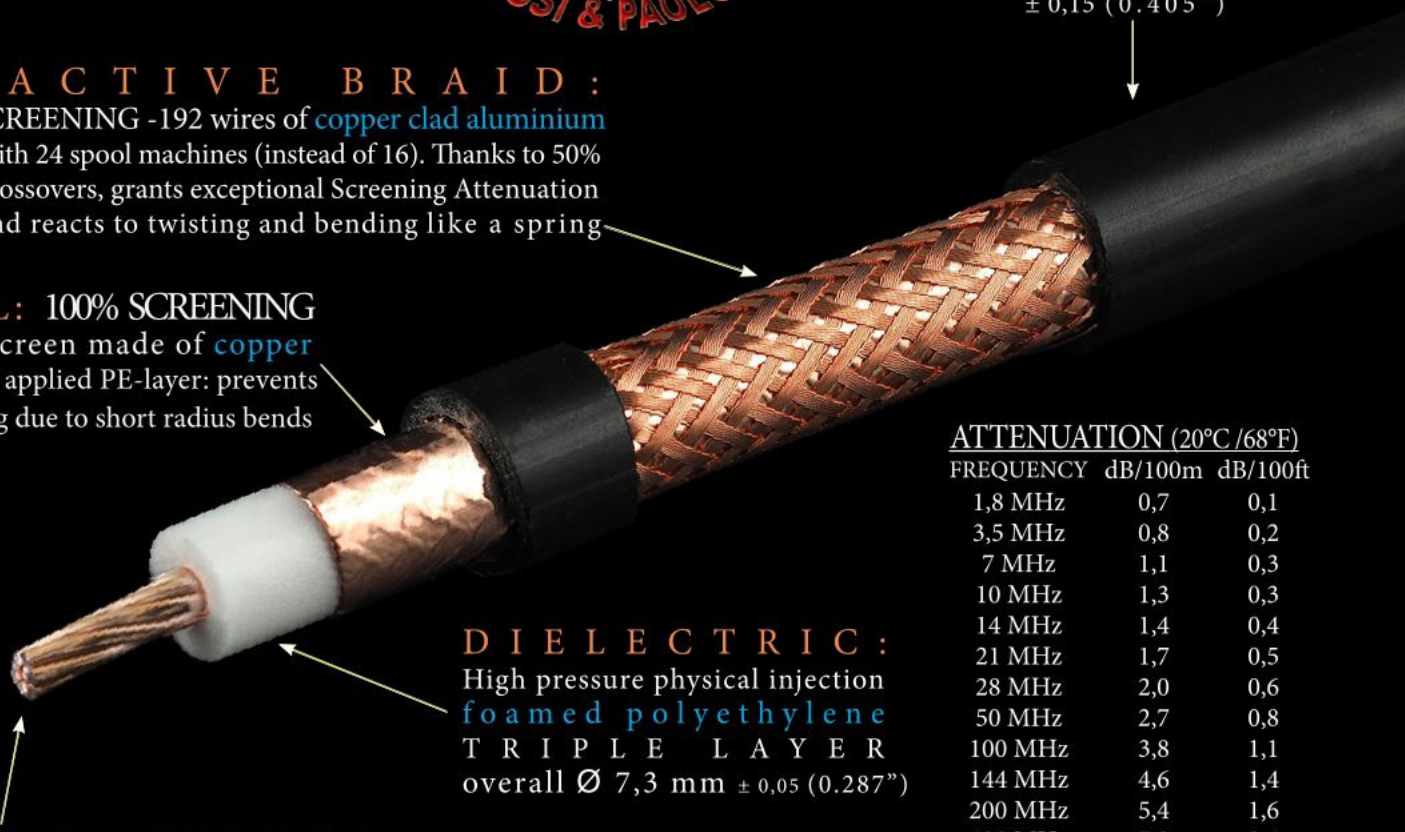
Ham Radio Pro Cables — M&P — MESSI & PAOLONI

CE · Pb · RoHS Compliant 2002/95/EC

JACKET:
UV-resistant black PVC or PE
overall Ø 10,3mm ± 0,15 (0.405")

REACTIVE BRAID:
85% SCREENING -192 wires of copper clad aluminium made with 24 spool machines (instead of 16). Thanks to 50% more crossovers, grants exceptional Screening Attenuation (SA) and reacts to twisting and bending like a spring

FOIL: 100% SCREENING
First screen made of copper with an applied PE-layer: prevents cracking due to short radius bends



DIELECTRIC:
High pressure physical injection foamed polyethylene
TRIPLE LAYER
overall Ø 7,3 mm ± 0,05 (0.287")

INNER CONDUCTOR:
7x1.0mm copper wires - overall Ø 2,9 mm ± 0,15
(7x0.039"- overall Ø 0.114")

ATTENUATION (20°C /68°F)

FREQUENCY	dB/100m	dB/100ft
1,8 MHz	0,7	0,1
3,5 MHz	0,8	0,2
7 MHz	1,1	0,3
10 MHz	1,3	0,3
14 MHz	1,4	0,4
21 MHz	1,7	0,5
28 MHz	2,0	0,6
50 MHz	2,7	0,8
100 MHz	3,8	1,1
144 MHz	4,6	1,4
200 MHz	5,4	1,6
400 MHz	7,9	2,4
430 MHz	8,1	2,4
800 MHz	11,4	3,4
1000 MHz	12,8	3,8
1296 MHz	14,7	4,4
2400 MHz	20,8	6,3
3000 MHz	23,7	7,1
4000 MHz	28,0	8,4
5000 MHz	31,9	9,6
6000 MHz	35,7	10,8
7000 MHz	39,3	11,9
8000 MHz	42,6	13,0

ELECTRICAL DATA

Impedence @200Mhz:	50 Ohm ± 3
Minimum bending radius:	up to 15 bends: 80mm (3.15 in) single bend (choke): 40mm (1.57 in)
Temperature:	-40°C to +60°C (-40°F to +140°F)
Capacitance:	78 pF/m ± 2 (23.8 pF/ft ± 2)
Velocity factor:	83%
Screening Efficiency (SA)	100-2000 MHz >105 dB
Inner conductor resistance:	3,2 Ohm/Km (1.0 Ohm/1000ft)
Outer conductor resistance:	12 Ohm/Km (2.8 Ohm/1000ft)
Tension test (spark test):	8 kV
Net weight x 100m (100ft):	11,6 Kg (7,8 lb)
Maximum peak power:	12000 WATT
Structural Return Loss:	0,3-600 MHz >30 dB; 600-1200 MHz >25 dB; 1200-2000 MHz >20 dB

POWER HANDLING (40°C/104°F)

FREQUENCY	MAX P.	FREQUENCY	MAX P.
1,8 MHz	6427 W	430 MHz	587 W
3,5 MHz	5142 W	800 MHz	419 W
7 MHz	4285 W	1000 MHz	372 W
10 MHz	3955 W	1296 MHz	321 W
14 MHz	3428 W	2400 MHz	223 W
21 MHz	2856 W	3000 MHz	193 W
28 MHz	2437 W	4000 MHz	158 W
50 MHz	1849 W	5000 MHz	135 W
100 MHz	1275 W	6000 MHz	117 W
144 MHz	1049 W	7000 MHz	104 W
200 MHz	883 W	8000 MHz	93 W
400 MHz	610 W		

OUR PRODUCTS ARE MANUFACTURED IN COMPLIANCE WITH:
CEI 46-1 (construction parameters); EN 50117 (screening efficiency); CEI EN 50289 (SA test methods); R118 (ISO7622-1);
IEC 60332-1-2 (cables with PVC and LSZH jacket); CPR305/11 - **EuroClass Eca** - EN50575:2014 - DoP number: MP00102