M&P UltraFlex 10C EVOlution /.400"

Ham Radio Pro Cables — 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	0,2
3,5 MHz	0,9	0,3
7 MHz	1,0	0,3
10 MHz	1,2	0,4
14 MHz	1,4	0,4
21 MHz	1,7	0,5
28 MHz	1,9	0,6
50 MHz	2,6	0,8
100 MHz	3,8	1,1
144 MHz	4,6	1,4
200 MHz	5,5	1,7
400 MHz	8,2	2,5
430 MHz	8,5	2,6
800 MHz	11,8	3,6
1000 MHz	13,3	4,1
1296 MHz	15,3	4,7
2400 MHz	21,7	6,6
3000 MHz	24,5	7,5
4000 MHz	29,0	8,8
5000 MHz	33,0	10,0
5800 MHz	34,9	10,6
6000 MHz	36,8	11,1
7000 MHz	40,6	12,3
8000 MHz	44,1	13,4
9000 MHz	48,1	14,6
10000 MHz	52,0	15,8
11000 MHz	55,8	16,9
12000 MHz	59,9	18,2

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:	87%
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:	13000 WATT

Structural Return Loss:	0,3-600 MHz	600-1200 MHz	1200-2000 MHz
	>30 dB	>25 dB	>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