# M&P UltraFlex 10 C

Competition /.400"

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

CE Pb

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

**REACTIVE BRAID:**
71% SCREENING - 144 wires of copper
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)<br>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: | 9,2 Ohm/Km (2.8 Ohm/1000ft) | | |
| Tension test (spark test): | 8 kV | | |
| Net weight x 100m (100ft): | 13 Kg (8.7 lb) | | |
| Maximum peak power: | 12000 WATT | | |
| Structural Return Loss: | 0,3-600 MHz<br>>30 dB | 600-1200 MHz<br>>25 dB | 1200-2000 MHz<br>>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