# M&P RG 213/U PLUS

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

CE Pb RoHS Compliant 2002/95/EC

## JACKET:
UV-resistant black PVC
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:
solid polyethylene
overall Ø 7,25mm ± 0,05
(0.285")

## INNER CONDUCTOR:
7x0,75mm copper wires - overall Ø 2,25 mm ± 0,15
(7x0.029"- overall Ø 0.088")

## ATTENUATION (20°C /68°F)

| FREQUENCY | dB/100m | dB/100ft |
|---|---|---|
| 1,8 MHz | 0,8 | 0,2 |
| 3,5 MHz | 1,1 | 0,3 |
| 7 MHz | 1,5 | 0,4 |
| 10 MHz | 1,7 | 0,5 |
| 14 MHz | 2,0 | 0,6 |
| 21 MHz | 2,3 | 0,7 |
| 28 MHz | 2,6 | 0,8 |
| 50 MHz | 3,5 | 1,1 |
| 100 MHz | 5,0 | 1,6 |
| 144 MHz | 6,2 | 2,0 |
| 200 MHz | 7,4 | 2,3 |
| 400 MHz | 10,9 | 3,5 |
| 430 MHz | 11,4 | 3,6 |
| 800 MHz | 16,3 | 5,2 |
| 1000 MHz | 18,6 | 5,9 |
| 1296 MHz | 21,8 | 7,0 |
| 2400 MHz | 32,1 | 10,2 |
| 3000 MHz | 36,9 | 11,8 |
| 4000 MHz | 44,4 | 14,2 |
| 5000 MHz | 51,4 | 16,4 |
| 6000 MHz | 58,2 | 18,6 |
| 7000 MHz | 64,8 | 20,7 |
| 8000 MHz | 70,8 | 22,6 |

## ELECTRICAL DATA

| | |
|---|---|
| Impedence @200Mhz: | 50 Ohm ± 3 |
| Minimum bending radius: | up to 15 bends: 120mm (4.7 in)<br>single bend (choke): 60mm (2.3 in) |
| Temperature: | -45°C to +70°C (-49°F to +158°F) |
| Capacitance: | 101 pF/m ± 2 (30 pF/ft ± 2) |
| Velocity factor: | 66% |
| Screening Efficiency (SA) | 100-2000 MHz >105 dB |
| Screening Class: | A++ |
| Inner conductor resistance: | 5,8 Ohm/Km (1.8 Ohm/1000ft) |
| Outer conductor resistance: | 11 Ohm/Km (3.4 Ohm/1000ft) |
| Tension test (spark test): | 8 kV |
| Net weight x 100m (100ft): | 12 Kg (8.1 lb) |
| Maximum peak power: | 16000 WATT |
| Connectors: | UHF (PL), N, BNC, SMA, TNC, 7/16 |

## RETURN LOSS

| | |
|---|---|
| 0,3-600 MHz | >30 dB |
| 600-1200 MHz | >25 dB |
| 1200-2000 MHz | >25 dB |

## POWER HANDLING (40°C/104°F)

| FREQUENCY | MAX P. | FREQUENCY | MAX P. |
|---|---|---|---|
| 1,8 MHz | 8372 W | 430 MHz | 628 W |
| 3,5 MHz | 6260 W | 800 MHz | 439 W |
| 7 MHz | 4768 W | 1000 MHz | 386 W |
| 10 MHz | 4114 W | 1296 MHz | 328 W |
| 14 MHz | 3600 W | 2400 MHz | 224 W |
| 21 MHz | 3037 W | 3000 MHz | 195 W |
| 28 MHz | 2667 W | 4000 MHz | 162 W |
| 50 MHz | 2033 W | 5000 MHz | 139 W |
| 100 MHz | 1414 W | 6000 MHz | 123 W |
| 144 MHz | 1152 W | 7000 MHz | 111 W |
| 200 MHz | 962 W | 8000 MHz | 101 W |
| 400 MHz | 655 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: MP00120