

1,4 Kg/100m
lighter than RG58

3,6 dB/100m better
@50 MHz than RG58

M&P
AIRBORNE 5
(H2005) **1.200"**



JACKET :
UV shielded **polyethylene**
for direct burial and outdoor use
overall Ø 5mm ± 0,15
(0.197 inches ± 0.0059)

REACTIVE BRAID :
84% SCREENING - 96 wires of **aluminium magnesium**
Strong and lightweight braid for an ultimate result of toughness and reliability, under a structural and Screening Attenuation (SA) point of view

ATTENTION: use only our connectors as with this sort of braid, no soldering is allowed!



FOIL: 100% SCREENING
First screen made of **aluminium - polyester - aluminium**: prevents cracking due to short radius bends

Waterproof Sturdy

DIELECTRIC :
High pressure physical injection **foamed polyethylene**
TRIPLE LAYER
overall Ø 3 mm ± 0,05 (0.118 inches ± 0.0019)

INNER CONDUCTOR :
made of 99,9% pure bare **copper**
overall Ø 1,13 mm ± 0,05 (Ø 0.044 inches ± 0.0019)

ELECTRICAL DATA

Impedence @200Mhz: 50 Ohm ± 3

Minimum bending radius: { up to 15 bends: 50mm (1.97 in)
single bend (choke): 25mm (0.98 in)

Temperature: -45°C to +70°C (-49°F to +158°F)

Capacitance: 76 pF/m ± 2 (23.2 pF/ft ± 2)

Velocity ratio: 85%

Screening Efficiency (SA) 100-2000 MHz >105 dB

Screening Class: A++

Inner conductor resistance: 17 Ohm/Km (5.2 Ohm/1000ft)

Outer conductor resistance: 34 Ohm/Km (10.4 Ohm/1000ft)

Tension test (spark test): 8 kV

Net weight (100m/100ft): 2,3 Kg (1.5 lb)

Maximum peak power: 2.000 WATT

Connectors: UHF (PL), N, BNC, SMA, TNC

SRL
0,3-600 MHz >30 dB
600-1200 MHz >28 dB
1200-2000 MHz >25 dB

ATTENUATION (20°C/68°F)

| FREQUENCY | dB/100m | dB/100ft |
|-----------|---------|----------|
| 1,8 MHz | 1,7 | 0,5 |
| 3,5 MHz | 2,3 | 0,7 |
| 7 MHz | 3,0 | 0,9 |
| 10 MHz | 3,4 | 1,0 |
| 14 MHz | 4,0 | 1,2 |
| 21 MHz | 4,8 | 1,4 |
| 28 MHz | 5,5 | 1,6 |
| 50 MHz | 7,1 | 2,1 |
| 100 MHz | 9,4 | 2,8 |
| 144 MHz | 11,1 | 3,3 |
| 200 MHz | 12,8 | 3,9 |
| 400 MHz | 18,3 | 5,6 |
| 430 MHz | 19,0 | 5,7 |
| 800 MHz | 26,5 | 8,1 |
| 1000 MHz | 29,8 | 9,1 |
| 1296 MHz | 34,2 | 10,4 |
| 2400 MHz | 47,5 | 14,5 |
| 3000 MHz | 53,5 | 16,3 |
| 4000 MHz | 61,0 | 18,5 |
| 5000 MHz | 68,6 | 20,9 |
| 6000 MHz | 75,6 | 23,0 |

POWER HANDLING (40°C/104°F)

| FREQUENCY | MAX P. | FREQUENCY | MAX P. |
|-----------|--------|-----------|--------|
| 1,8 MHz | 1172 W | 400 MHz | 102 W |
| 3,5 MHz | 837 W | 430 MHz | 99 W |
| 7 MHz | 625 W | 800 MHz | 71 W |
| 10 MHz | 543 W | 1000 MHz | 63 W |
| 14 MHz | 471 W | 1296 MHz | 55 W |
| 21 MHz | 394 W | 2400 MHz | 39 W |
| 28 MHz | 346 W | 3000 MHz | 35 W |
| 50 MHz | 268 W | 4000 MHz | 31 W |
| 100 MHz | 198 W | 5000 MHz | 27 W |
| 144 MHz | 170 W | 6000 MHz | 25 W |
| 200 MHz | 146 W | | |



WHY CHOOSE THIS CABLE

- best 5mm (.200”) coaxial cable available.
- 3,6dB/100m less at 50MHz than RG58 C/U.
- suitable for direct burial and totally waterproof.
- perfect for outdoor use and weatherproof.
- superlative resistance thanks to the PE tearproof sheath.
- incredible lightness: 1,4Kg x 100m less than RG58 C/U.

FREQUENCY SUGGESTIONS

HF (from 3MHz to 30Mhz)

example at 14 MHz

EXCELLENT up to 25m of cable length

GOOD up to 40m of cable length

Choose a bigger cable above 40m:

example 28 MHz

EXCELLENT up to 15m of cable length

GOOD up to 35m of cable length

Choose a bigger cable above 35m

VHF (from 30MHz to 300Mhz)

example at 50 Mhz

EXCELLENT up to 12m of cable length

GOOD up to 28m of cable length

Choose a bigger cable above 30m

example at 144 Mhz

EXCELLENT up to 8m of cable length

GOOD up to 15m of cable length

Choose a bigger cable above 15m

UHF (from 300MHz to 3000Mhz)

example at 430 MHz

GOOD up to 3m of cable length

Choose a bigger cable above 3m

example at 1296 MHz

Choose Ø 10,3mm or Ø 12,7mm cable

example at 2400 MHz

Choose Ø 10,3mm or Ø 12,7mm cable

*data valuable for Power Application (trasmission)

**you can find Watt / MAX POWER in the datasheet above.



RESIDUAL POWER PERCENTAGE (Cable Run Efficiency)

Given a power fed to the X value (any value expressed in Watts), the actual power output of the cable is shown in the table in the form of remaining percentage. (for example, if we use a cable such as M&P-AIRBORNE 5, entering 1000 Watts over a length of 35m, at a frequency of 144 MHz, there remains 41.1 % of 1000). **For maximum applicable power, see the Power Handling of the cable concerned.** From these values, have already been deducted the SRL values, typical of each one of our models, for the respective frequencies. **REMEMBER: Make sure to match the line accurately!**

| | | M&P-AIRBORNE 5 /.200" | | | | | | | | | | | | | |
|-------------|---------|---|------|------|------|------|-------|------|------|------|-------|-------|-------|-------|------|
| feet | | 16,4 | 32,8 | 49,2 | 65,6 | 82 | 114,8 | 164 | 246 | 328 | 426,5 | 524,9 | 656,2 | 984,2 | |
| meters | | 5 | 10 | 15 | 20 | 25 | 35 | 50 | 75 | 100 | 130 | 160 | 200 | 300 | |
| Wave length | MHz | Useful signal output (residual power %) | | | | | | | | | | | | | |
| Frequencies | 85.71 m | 3,5 | 97,4 | 94,9 | 92,5 | 90,1 | 87,8 | 83,4 | 77,2 | 67,8 | 59,6 | 51,0 | 43,7 | 35,5 | 21,2 |
| | 42.85 m | 7 | 96,5 | 93,2 | 90,1 | 87,0 | 84,0 | 78,4 | 70,7 | 59,5 | 50,0 | 40,6 | 33,0 | 25,0 | 12,5 |
| | 21.42 m | 14 | 95,4 | 91,1 | 87,1 | 83,2 | 79,4 | 72,5 | 63,1 | 50,2 | 39,9 | 30,3 | 23,0 | 15,9 | 6,3 |
| | 10.71 m | 28 | 93,9 | 88,2 | 82,8 | 77,8 | 73,1 | 64,5 | 53,5 | 39,1 | 28,6 | 19,6 | 13,5 | 8,1 | |
| | 6 m | 50 | 92,2 | 85,0 | 78,4 | 72,3 | 66,7 | 56,8 | 44,6 | 29,8 | 19,9 | 12,2 | 7,5 | 3,9 | |
| | 2.08 m | 144 | 88,0 | 77,5 | 68,3 | 60,2 | 53,0 | 41,1 | 28,1 | 14,9 | 7,8 | 3,6 | | | |
| | 69 cm | 430 | 80,2 | 64,4 | 51,7 | 41,5 | 33,3 | 21,5 | 11,0 | 3,6 | | | | | |
| | 23.1 cm | 1296 | 66,8 | 44,9 | 30,1 | 20,1 | 13,3 | 5,7 | | | | | | | |
| | 12.5 cm | 2400 | 56,2 | 31,9 | 17,7 | 9,6 | 4,9 | | | | | | | | |
| | 10 cm | 3000 | 52,4 | 27,6 | 14,2 | 6,9 | 3,0 | | | | | | | | |
| | 7.5 cm | 4000 | 46,4 | 21,4 | 9,0 | | | | | | | | | | |
| | 6 cm | 5000 | 39,1 | 14,3 | 3,0 | | | | | | | | | | |
| | 5 cm | 6000 | 31,9 | 7,5 | | | | | | | | | | | |

M&P-AIRBORNE 5 /.200" Power Handling/Temperature (in Continuous Carrier)

| | | Temperature C° / F° | | | | | | | | | | |
|-------------|----------|---------------------|---------|--------|---------|---------|---------|----------|----------|----------|----------|-----|
| Wave length | MHz | -10 / 14 | -5 / 23 | 0 / 32 | 10 / 50 | 20 / 68 | 30 / 86 | 40 / 104 | 50 / 122 | 60 / 140 | 70 / 158 | |
| Frequencies | 166.66 m | 1,8 | 1600 | 1600 | 1600 | 1594 | 1467 | 1317 | 1172 | 1000 | 827 | 656 |
| | 85.71 m | 3,5 | 1296 | 1252 | 1215 | 1138 | 1048 | 941 | 837 | 714 | 591 | 469 |
| | 42.85 m | 7 | 968 | 935 | 908 | 850 | 783 | 703 | 625 | 533 | 441 | 350 |
| | 30 m | 10 | 841 | 813 | 789 | 739 | 680 | 611 | 543 | 464 | 384 | 304 |
| | 21.42 m | 14 | 729 | 705 | 684 | 641 | 590 | 530 | 471 | 402 | 333 | 264 |
| | 14.28 m | 21 | 610 | 589 | 572 | 536 | 493 | 443 | 394 | 336 | 278 | 221 |
| | 10.71 m | 28 | 536 | 518 | 502 | 470 | 433 | 389 | 346 | 295 | 244 | 194 |
| | 6 m | 50 | 415 | 401 | 389 | 364 | 335 | 301 | 268 | 228 | 189 | 150 |
| | 3 m | 100 | 307 | 297 | 288 | 270 | 248 | 223 | 198 | 169 | 140 | 111 |
| | 2.08 m | 144 | 264 | 255 | 248 | 232 | 213 | 192 | 170 | 145 | 120 | 95 |
| | 1.5 m | 200 | 226 | 218 | 212 | 198 | 183 | 164 | 146 | 124 | 103 | 82 |
| | 75 cm | 400 | 158 | 153 | 148 | 139 | 128 | 115 | 102 | 87 | 72 | 57 |
| | 69 cm | 430 | 153 | 148 | 143 | 134 | 123 | 111 | 99 | 84 | 70 | 55 |
| | 37.5 cm | 800 | 109 | 106 | 102 | 96 | 88 | 79 | 71 | 60 | 50 | 40 |
| | 30 cm | 1000 | 97 | 94 | 91 | 85 | 79 | 71 | 63 | 54 | 44 | 35 |
| | 23.1 cm | 1296 | 85 | 82 | 80 | 75 | 69 | 62 | 55 | 47 | 39 | 31 |
| | 12.5 cm | 2400 | 61 | 59 | 57 | 54 | 49 | 44 | 39 | 34 | 28 | 22 |
| 10 cm | 3000 | 54 | 52 | 51 | 48 | 44 | 39 | 35 | 30 | 25 | 20 | |
| 7.5 cm | 4000 | 48 | 46 | 45 | 42 | 38 | 35 | 31 | 26 | 22 | 17 | |
| 6 cm | 5000 | 42 | 41 | 40 | 37 | 34 | 31 | 27 | 23 | 19 | 15 | |
| 5 cm | 6000 | 38 | 37 | 36 | 34 | 31 | 28 | 25 | 21 | 18 | 14 | |

Do not use the cable as power supply for both direct current and 50-60 HZ mains

GENERIC COAXIAL CABLE APPLICATIONS*

- Aircraft communications
 - Amateur Radio
 - Antenna
 - Antenna Analyzer
 - Beacons Base Station
 - Broadcast Radios
 - CB Radio (Citizen Band)
 - CB Radio Scanner
 - Dummy Load
 - Land Mobile Communications
 - Maritime Mobile Communications
 - Military Communications
 - Microwave Relay System
 - Moon Bouncing Transmission EME
 - Mobile Transmission Applications (Car, Van, Caravans, Trucks, etc.)
 - Motorhome
 - Network Analyzer
 - Portable Handheld Radio (Walkie Talkie - PMR antenna extension)
 - Radar
 - Radio Astronomy and Telescope
 - Radio Receivers
 - Router connections
 - Satellite Radio
 - Scanner
 - Switch connections
 - SWR Meter connections
 - Transceiver
 - Tuner connections
 - Weather Radio Antenna Extension
- *See "Frequency Suggestions" for a correct correlation

PRE-ASSEMBLED COAX JUMPERS

YOU'VE NO TIME FOR ASSEMBLING THE CONNECTORS YOURSELF?
GRAB OUR FACTORY MADE COAX JUMPERS "LAB TESTED" ONE BY ONE!
LAB CERTIFICATE ENCLOSED IN EACH PACKAGING.



USEFUL ACCESSORIES



SPECIAL COAX SCISSORS



ADHESIVE REUSABLE
VELCRO



CABLE PULLING LUBRIFICANT



M&P T-SHIRT



UNWINDERS FOR COILS AND BOBBINS



CONNECTORS for 5mm (.200") Coaxial Cables



“UHF” (PL-259) Male Solder

Watch the Assembly

Video:

https://youtu.be/N6_H2Qx6fFY

Code:

CO.UHF.5M-S



“UHF” (PL-259) Female Solder

Watch the Assembly

Video:

<https://youtu.be/g6CqtaKSoQg>

Code:

C.UHF.AC5F-S



“N” Male Solder

Watch the Assembly

Video:

<https://youtu.be/GVV9uFAbbXo>

Code:

CO.N.5M-S



“N” Female Solder

Watch the Assembly

Video:

<https://youtu.be/Tx7rS40iXP5>

Code:

C.N.AC5F-S



“BNC” Male Solder

Watch the Assembly

Video:

<https://youtu.be/y-KgVhoJmBM>

Code:

C.BNC.AC5M-S



“BNC” Female Solder

Watch the Assembly

Video:

<https://youtu.be/CFIc-BHYQxk>

Code:

C.BNC.AC5F-S



“BNC” Male Solder - 90° Angle

Watch the Assembly

Video:

<https://youtu.be/Kbe4G0Ppwk>

Code:

C.BNC.HYF5MS-90



“TNC” Male Solder

Watch the Assembly

Video:

https://youtu.be/YAJsUnNq_2c

Code:

C.TNC.AC5M-S



“SMA” Male Crimp

Watch the Assembly

Video:

<https://youtu.be/zeGYWW-cPzk>

Code:

C.SMA.AC5M-CR