# Aircom®Plus

## Technical data

| | |
|---|---|
| Centre conductor | solid copper wire, OFC |
| Centre conductor Ø | 2,7 mm |
| Dielectric | semi airspaced PE |
| Dielectric Ø | 7,2 mm |
| Outer conductor 1 | copperfoil, PE-coated |
| Shielding factor | 100 % |
| Outer conductor 2 | copper braid |
| Shielding factor | 75 % |
| Sheath | black PVC, UV-resistant |
| Outer diameter Ø | 10,3 mm |
| Weight | 150 g/m |
| Min. Bending radius | 55 mm |
| Temperature range | - 40 bis + 80°C |
| Pulling strength | 5 daN |

## Typ. attenuation (dB/100 m @ 20°C)

| | | | |
|---|---|---|---|
| 5 MHz | 0,9 | 1000 MHz | 13,4 |
| 10 MHz | 1,2 | 1296 MHz | 15,6 |
| 50 MHz | 2,6 | 1500 MHz | 17,0 |
| 100 MHz | 3,8 | 1800 MHz | 18,9 |
| 144 MHz | 4,6 | 2000 MHz | 20,1 |
| 200 MHz | 5,5 | 2400 MHz | 22,5 |
| 300 MHz | 6,8 | 3000 MHz | 25,9 |
| 432 MHz | 8,4 | 4000 MHz | 31,1 |
| 500 MHz | 9,0 | 5000 MHz | 35,9 |
| 800 MHz | 11,8 | 6000 MHz | 40,6 |
| | | 10000 MHz | 58,3 |

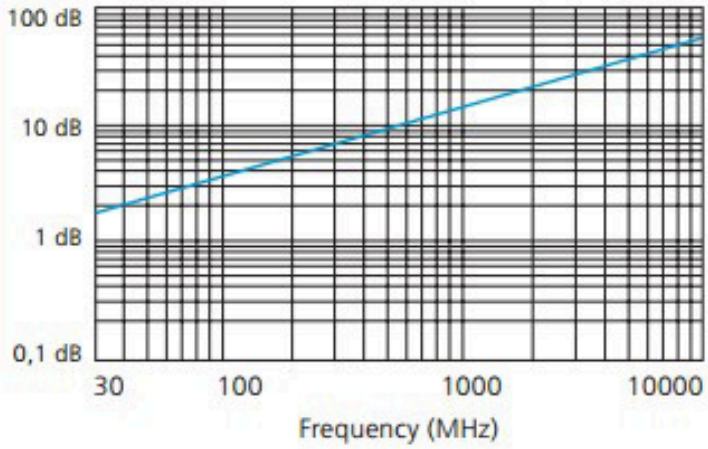
## Max. power handling (W @ 40°C)

| | | | |
|---|---|---|---|
| 10 MHz | 3980 | 2000 MHz | 180 |
| 100 MHz | 1210 | 3000 MHz | 150 |
| 500 MHz | 510 | 4000 MHz | 110 |
| 1000 MHz | 340 | | |

## Electrical specifications

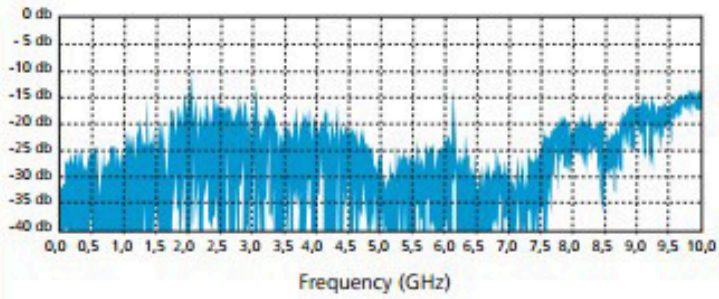
| | |
|---|---|
| Impedance | 50 Ω |
| Capacity | 81 pF/m |
| Velocity factor | 0,83 |
| fmax | 10 GHz |
| Screening efficiency @ 1 GHz | > 85 dB |
| DC-resistance: Centre conductor | 3,1 Ω/km |
| Outer conductor | 6,4 Ω/km |
| RF peak voltage | 1kV |

## Typ. Attenuation (dB/100 m) @ 20°C




| | Aircom Plus | RG 213/U | RG 58/U |
|---|---|---|---|
| Capacity | 81 pF/m | 101 pF/m | 102 pF/m |
| Velocity factor | 0,83 | 0,66 | 0,66 |
| Attenuation dB/100 m | | | |
| 10 MHz | 1,2 | 2,0 | 5,2 |
| 100 MHz | 3,8 | 7,0 | 17,0 |
| 500 MHz | 9,0 | 17,0 | 39,0 |
| 1000 MHz | 13,4 | 22,5 | 54,6 |
| 3000 MHz | 25,9 | 58,5 | 118 |

## Typ. Return loss




Due to production tolerances the RTL may have different characteristics.

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