



## Aircell®5 - thin and low loss coaxial cable for radio communications

Aircell 5 is a small, 5 mm (o.d.), flexible coaxial cable usable from DC to 10 GHz. It's relative low loss characteristics plus the ability to use standard RG 58 Connectors makes this cable the number one choice not only for Wireless LAN but also for general RF communications. The low attenuation of Aircell 5 is achieved through advanced manufacturing techniques and the use of a PELLC dielectric with a foaming rate of more than 70%. This unique dielectric also offers water resistance and long term stability. Aircell 5 features a solid center conductor extruded from low oxygen copper (OFC). Further advantages of this cable include the use of double shielding which is constructed of overlapping 100% tight copperfoil plus an additional woven copperbraid with 72% coverage. A screening efficiency of > 85 dB@1GHz is realized. The copperfoil has an applied PE-coating which prevents foil craking due to short radius bends. The black PE sheath of Aircell 5 is UV-stabilized.

One of the major advantages of Aircell 5 is its ability to use commonly available coaxial Connectors. Since Aircell 5 features the same dimensions as RG 58 type cables, standard Connectors may be used. In some cases, due to connector manufacturing tolerances, a slight filing of the cables center conductor maybe required. Aircell 5 is the right choice, when a thin, microwave rated cable is required. It is available from stock in the following standard drum sizes: 25 m, 50 m, 100 m, 200 m and 500 m.

### Aircell®5 characteristics

Diameter .....	5,0 mm
Impedance .....	50 Ω
Attenuation @ 1 GHz/100 m.....	31,09 dB
fmax .....	10 GHz

