



# GNSS-ACB

## GNSS Cable Low loss



GNSS ACB is a cable to connect your GNSS antennas to our different equipment with GNSS receivers.

This cable has a central strand conductor and an outer sheath of rubber. It is designed for multiple bending cycles and unfolding. It is used for indoor and outdoor applications. The low pressure is another important feature of Cable GNSS ACB.

The size of our cable has the lowest loss of any flexible cables on the market today and this loss is comparable to semi-rigid cables.

The RF shielding is 50 dB which is higher than all typical shielded coaxial cable (40 dB).

The flexibility and bending capacity are the essential characteristics of the design of GNSS ACB cable. The driver and flexible outer sheaths allow the bending radius is not possible for cable of similar size and performance.

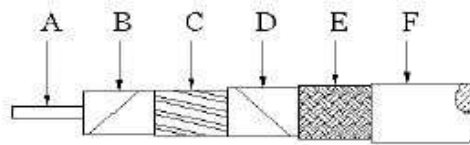
GNSS ACB cables are designed for outdoor exposure and have a long life expectancy even in an extreme environment.

Multilayer connecting the outer conductor of the sheet is estimated > 90 dB which means > 180 dB between two adjacent cables.

A wide variety of connectors is available for GNSS ACB cables. This includes all types of interfaces, reverse polarity....

Most used with this cable connectors have an external attachment using the hexagonal compression standard.

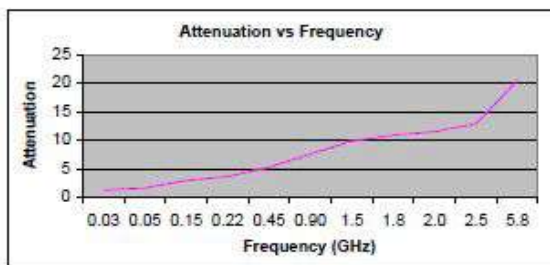
All types of GNSS ACB cables are available for use in pre-assembled format. You can contact us for more details.



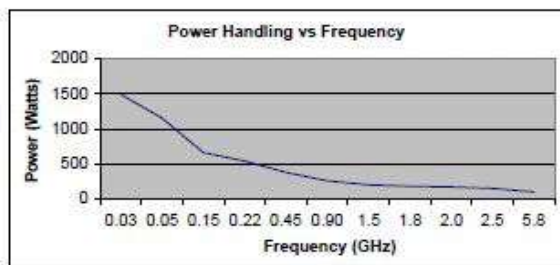
| Electrical Data                        |         |      |   |
|--|---------|------|---|
| Frequency, Max (GHz)                   | 5.8     |      |   |
| Impedance, nominal (Ω)                 | 50      |      |   |
| Velocity of Propagation (%)            | 84      |      |   |
| Shielding Effectiveness, 1 GHz (dB/ft) | >90     |      |   |
| Capacitance (pF/ft)                    | 24.2    |      |   |
| Delay (ns/ft), (ns/meter)              | 1.21    | 3.97 |   |
| Attenuation k1 (db/100ft) @ 23 deg C   | 0.24208 |      | Attenuation (typical) at any Frequency<br>=k1 x SqRt (FMHz) + k2 x (FMHz) |
| Attenuation k2 (db/100ft) @ 23 deg C   | 0.00033 |      |   |

| Mechanical Data                  |           |       |  |
|----------------------------------|-----------|-------|--|
| Weight (lbs/100ft), (Kg/100m)    | 3.40      | 5.11  |  |
| Temperature Range (°C)           | -40 to 85 |       |  |
| Minimum Bend Radius (inch), (mm) | 0.75      | 19.05 |  |

| Construction Data          |   |          |       |   |
|----------------------------|---|----------|-------|---|
| Inner Conductor (inch)     | A | Solid    | 0.056 | Bare Copper                             |
| Dielectric (inch)          | B |          | 0.150 | Foam Polyethylene                       |
| First Outer Shield (inch)  | C |          | 0.155 | Aluminum Tape                           |
| Second Outer Shield (inch) | D |          | 0.178 | Tinned Copper                           |
| Third Outer Shield (inch)  | E |          |       |   |
| Jacket (inch O.D.)         | F | Extruded | 0.240 | Fire Retardant Polyethylene Color Black |



(dB per 100 feet)



\*CW Power in watts at sea level and 23°C