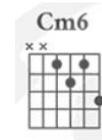


**Coaxial Waves, Lyrics by Walter F. Smith, 11-30-11**

Tune: Jingle Bell Rock, by Joseph Carleton Beale & James Ross Booth (1957)

Note: If you're not familiar with Cm6, you can use A instead.



**G** **D7**  
If you want a cable that's great, then you should choose RG58!

**D7** **A** **D** **D7**  
It has capac'tance one hundred "puff" per meter— That's clearly enough!

**G**  
Combine it with inductance two hundred five-oh

**G** **D7**  
Nanohenries per meter, now watch the waves go!

**D7** **D7** **G** **G7**  
Zippin' and zappin' at twice the speed c, Divided by three!

**C** **G**  
[Bridge:] When it's wave time, you can save time by using this simple rule:

**A** **D** **D7**  
That the V-wave is like the E-wave of light in a vacuum, ain't that cool?

**G** **E**  
Giddy-up, current times L-naught (I think) moves like the B behaves!

**Am** **Cm6** **A** **D7** **G**  
Swing and wiggle in cylindrical sync – That's coaxial waves!

**G**  
The ratio of voltage to current is just

**G** **D7**  
Root L-naught by C-naught, as we have discussed.

**D7** **D7** **G** **G7**  
So, an infinite cable, though it sounds bizarre, feels like a 50-ohm R!

**C** **G**  
[Bridge:] Let us all kneel to- Paul Neill, And Carl Conselman as well.

**A** **D** **D7**  
The correct plug's a bayonet plug— The BNC connector's totally swell!

**G** **E**  
For left-moving waves, the I's and the V's are one eighty degrees out of phase

**Am** **Cm6** **A** **D7** **A** **D7**  
Swing with anti-symmetrical ease –That's coaxial, that's coaxial,

**A** **D7** **G**  
That's coaxial waves!