


Wire and Connectors

David M. Thibodeau


What is a wire?

- One or more conductors
- Some type of insulation
- Can have a shield
- Outer insulation



Types of Shields

- Braid
- Foil
- Spiral Wrapped
- Conductive Plastic
- Multiple combinations of above



Types of Conductors

- Solid Core
- Stranded Core
- Copper/Aluminum/Alloy with Nickel etc.




Wire Specifications

- Gauge
- Types of Insulation
 - PVC
 - Teflon
 - Neglex, (rubberized PVC)
- Type of Copper
- Capacitance
- Resistance
- Inductance




Types of Cable

- Coaxial (Coax)
- Speaker Wire
- Data & Control
- Twisted Pair
- Star Quad
- Multipair
- Ribbon
- Telephone & Network



Brands

- Belden
- Mogami
- Gepco
- Canari
- Alpha
- West-Penn
- Horizon



Connectors

- 1/4" Unbalanced, (Tip, Sleeve)
- 1/4" Balanced, (Tip, Ring, Sleeve)
- RCA (Phono)
- XLR (Cannon)
- BNC
- Banana
- "F" type



Connectors Cont....

- TT (Tiny Telephone)
- Molex
- AMP
- ELCO
- DL
- Tuchel
- D-Sub (D-9, D15, D25, D37, D50)



Connectors Cont.....

- Din, (Mini, 5-pin, 7-pin etc.)
- Centronics
- Mass

The End



You are now well connected!