

## Tool List

### RF Tools (Required for Satellite and Cable Installation and Service):

DBS Signal Meter	
Spectrum Analyzer	
Birdog Satellite Meter	

### AV / Network Tools (Required for Audio Visual and Digital Media Installation Service):

Hex Crimp Tool for sizes - .475, .262, .108 and .100	
Hex Crimp Tool for sizes - .475, .384, .100 and .054	
Hex Crimp Tool for sizes - .360	
HTC-231 crimpers--RG-8, RG-58	
RG6 crimpers (coaxial cable)	
RJ45 crimpers (network cabling standard)	
RJ11/12 crimpers (Telco standard)	
Stud Finder	
Ladder -Per Person/helper on site	

### Test Equipment (Required for Satellite and Structured Wiring):

Laptop PC (minimum Pentium 1 GHz, Windows XP, WiFi card, USB serial connection or Serial connector)	
Cell phone with digital camera (data plan to transfer photos and documents)	
Volt-Ohm meter with DC scales of 0-10 volts and 0-2 volts	
Inclinometer	
DIU Editor Software on Laptop	
Peaking cable: F-connector to banana plugs that match voltmeter	
Signal Strength Meter	
Anti static equipment	
Keyboard	
Mouse	
CAT-5 Tester	
Telephone Line Tester	
DBS Signal Meter	

### Safety Equipment (Required for All USSI Installation and Service Work):

Disposable respirator	
Safety glasses	
Rain suit	
Hardhat	
First Aid Kit	
Steel Toes Shoes	
Safety Cones for Service Vehicle and Ladder Marking	
Safety Harness for any heights over 12	

### Basic Hand Tools (Required for All USSI Installation and Service Work):

Digital Camera	
Ladder - Required 6-10 Foot Step ladder, 14 Foot A-Frame, 23 Foot Extension	
Keyhole saw, for use with drywall, cement board, plastic, wood	

Punch down tool (66/110 block compatible)	
Hacksaw, light-weight w/12" blade	
Aluminum level, Torpedo, 9" overall	
High speed steel drill bit 3/8" x 3/16" x 54"	
Heavy duty flat-steel fish tape w/reel, 100'	
Adjustable wrench	
Torque wrench	
15" Adjustable Crescent wrench	
1/4" socket set	
Large Phillips screwdriver	
Small Phillips screwdriver	
Large Standard flat screwdriver	
Side Cutters	
7/64" hex key	
Cordless drill	
Flashlight	
Sharp Knife	
Ben hughes HCT-231 Crimp tool	
Drop Cable Strip Tool prepares 6 and 59 cable	
Drop Cable Strip Tool prepares 7 and 11 cable	
Crimper (CAT 5 4-Pair)	
"F" Style crimpers for RG-6	
Compass	
Tape Measure	

**Consumables (Review the SOW for additional and/or required items):**

Electrical Tape	
Self Fusing Tape, 3/4" x 15	
Heat Shrink	
WD-40 or Penetrating Oil	
Sealant for POE's	
Cinder Blocks	
Matting material or be prepared to buy it from Home Depot etc. Issues may come up for example a Deinstall/Reinstall (DE/RE) and no matting under deinstall	
Rubber Splicing Tape (Scotch 133 Rubber Splicing Tape)	
I-Beam clamps	
Ground wire #8--Jack in the Box only	
Ground wire #10--for all other SOW	
Grounding Clamps--Not plumbers strap	
Ground lugs	
Connector terminals for grounding purposes	
RS 232 cable --Straight Through	
Tie wraps (black --18 inches	
RJ-45 Jacks and connectors	
RJ-11 Jacks and connectors	

RJ-12 Jacks and connectors	
RJ-8 Connectors and Cable	
RJ-58 Connectors and Cable	
CAT-5 cable 1000ft	

#### **Appliance Service Basic Tool List**

Assorted Phillips and Flat head screw drivers	
Ratchet and Assorted Sockets (including 22mm & 72mm)	
6" Extension	
S Extension	
Assorted Sized open end wrenches (including 22mm & 27mm)	
Power Drill	
Small Hammer	
Vice Pliers	
Wire Cutters	
Long Nose Pliers	
Volt/Ohm Meter	
Microwave Leak Detector	
ESD Strap	
Cell Phone	
Digital Camera	
Flashlight	
Heat Gun/Heat Steamer	
Digital Temperature Gauge	
Wet/Dry Vacuum	
Knife, Utility Retractable Blade	
Wrench, Spanner WP/KEN	
Digital Multi-Meter	
Solder Gun	

#### **Appliance: Refrigeration Specialty Tools**

Refrigerant Gauges and hoses	
CFC Recovery System	
Electronic Refrigerant Weigh Scale	
Vacuum Pump	
Brazing Torch	
Welding Mat to protect floor	
Line Piercing Recovery Tool	
Electronic Leak Detector	
R-410A Coolant	

#### **Alarm Installation/Service Required Tools**

Cordless Drill	
Volt/Ohm Meter	
Tone Generator	
Fish Tape	

Glow rods minimum 25'	
Butt Set	
Drop Cloth	
Vacuum	
T25 Staple Gun	
Flashlight	
10 in 1 Screwdriver	
Assorted Drill Bits	
Assorted Slotted Screw Drivers	
Assorted Phillips Screw Drivers	
Tape Measure	
Precision Screw Driver (Slotted)	
Wire Strippers	
Needle Nose Pliers	
Crimpers	
Diagonal Pliers	
Tool Bag	

#### **Alarm Consumables**

Black Electrical Tape	
Screws	
Drywall Anchors	
Tie Wraps	
Silicone	
Spare Batteries for tools	
Dolphin Brand Beanies	
1/4" Plastic Bushings	
Wire 18/2	
Wire 22/4	
T25 Staples	

#### **Miscellaneous (Required Items):**

Whiteboard for inclusion in photos taken	
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