

**Unified Wire & Cable, Inc.  
DeKalb, Illinois 60115**

**SPECIFICATION SHEET  
181BTFN-X  
18(SOLID) BARE COPPER TFN/UL1316/1452 KNURLED  
ROHS & REACH COMPLIANT**

<b>COPPER:</b>	BASIC SPECIFICATION ASTM B 3
<b>CONDUCTOR:</b>	SOFT DRAWN SOLID BARE COPPER KNURLED TO ENHANCE ADHESION
<b>CONDUCTOR DIAMETER:</b>	NOMINAL DIAMETER: .040 (Before knurling) APPROXIMATE CIRCULAR MIL AREA 1624
<b>INSULATION:</b>	POLYVINYL CHLORIDE (PVC) CLASS 43
<b>INSULATION THICKNESS:</b>	.015 MINIMUM AVERAGE WALL THICKNESS .013 MINIMUM AT ANY POINT
<b>HARDNESS:</b>	92 DUROMETER SHORE A +/-2
<b>COVERING:</b>	EXTRUDED NYLON IN 4 MIL MINIMUM THICKNESS
<b>RATING:</b>	90 C IN DRY LOCATIONS 60 C WHERE EXPOSED TO MOISTURE OR OIL 600 VOLTS RATED 105C 600 VOLTS WHEN USED AS APPLIANCE WIRING MATERIAL UL1316 AND 1408 OR 90C 1000V WHEN USED AS AWM 1452
<b>FINISHED DIAMETER:</b>	.080 NOMINAL O.D.
<b>MARKINGS:</b>	SURFACE PRINTED WITH REQUIRED UL AND CSA LEGEND
<b>MAXIMUM DC RESISTANCE:</b>	6.90 OHMS/1000' AT 20 C
<b>STANDARD PACKAGE:</b>	REELS OR DRUMS
<b>USAGE:</b>	MAY BE USED AS FIXTURE WIRE AND AS PERMITTED AS SPECIFIED IN THE NATIONAL ELECTRICAL CODE (NEC). CONDUCTOR TEMPERATURE NOT TO EXCEED 105C WHEN USED AS APPLIANCE WIRING MATERIAL (AWM)-COLD RATED -20C