

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

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

COPPER:	BASIC SPECIFICATION ASTM B 3
CONDUCTOR:	SOFT DRAWN SOLID BARE COPPER KNURLED TO ENHANCE ADHESION
CONDUCTOR DIAMETER:	NOMINAL DIAMETER: .040 (Before knurling) APPROXIMATE CIRCULAR MIL AREA 1624
INSULATION:	POLYVINYL CHLORIDE (PVC) CLASS 43
INSULATION THICKNESS:	.015 MINIMUM AVERAGE WALL THICKNESS .013 MINIMUM AT ANY POINT
HARDNESS:	92 DUROMETER SHORE A +/-2
COVERING:	EXTRUDED NYLON IN 4 MIL MINIMUM THICKNESS
RATING:	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
FINISHED DIAMETER:	.080 NOMINAL O.D.
MARKINGS:	SURFACE PRINTED WITH REQUIRED UL AND CSA LEGEND
MAXIMUM DC RESISTANCE:	6.90 OHMS/1000' AT 20 C
STANDARD PACKAGE:	REELS OR DRUMS
USAGE:	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