



ATLAS WIRE CORPORATION
9525 RIVER STREET
SCHILLER PARK, ILLINOIS 60176



ATLAS WIRE CORPORATION
REGISTERED TO ISO 9002
CERTIFICATE NO. A-4894

MATERIAL SPECIFICATION SHEET

**#18 16/30 TOPCOAT 1/64" PVC .005 NYLON
TFN 600v INSULATED WIRE
AWM STYLES 1316, 1452, AND 1408
CSA TEWN 105c - 600v FT-1**

CONDUCTOR: #18 16/30 TOPCOAT CONDUCTOR 5/8" LAY
NOMINAL DIAMETER .0470"
APPROXIMATE CIRCULAR MILL AREA 1,620
WEIGHT PER THOUSAND FEET 5.00#
BASIC SPECIFICATION ASTM B 470 Type I

PVC: TEMPERATURE RATING 105c
ELONGATION 330% AVERAGE
SPECIFIC GRAVITY 1.35
DUROMETER (SHORE) 92 (A)
MINIMUM TENSILE STRENGTH 2850 PSI
OXYGEN INDEX 29
BRITTLE POINT -25c
SPARK TESTED 10,000 VOLTS

NYLON: ELONGATION 300%
TENSILE STRENGTH 7400 PSI @ 50% RELATIVE HUMIDITY
SPECIFIC GRAVITY 1.13
OVERALL DIAMETER .088"
WEIGHT PER M FEET 7.68#

PRINT: 18 AWG E101906 (UL) TFN 600 V GASOLINE AND OIL
RESISTANT II OR AWM STYLE 1316 600V OR AWM STYLE
1408 600V OR AWM STYLE 1452 1000V
LL29012 CSA TEWN 105C - 600 V FT-1

UL 1316 USE: INTERNAL WIRING OF APPLIANCES, OR INTERNAL WIRING
OF APPLIANCES WHERE EXPOSED TO TEMPERATURES
NOT EXCEEDING 105c OR WHERE EXPOSED TO OIL AT A
TEMPERATURE NOT EXCEEDING 60c.