

Thermal Class: 155°C

Features and Benefits

Solderable without prior insulation removal

Polyamide (Nylon*) overcoat provides excellent mechanical protection during winding and insertion

- Excellent dereeling and windability on high speed and/or automated winding machines.
- Produces compact coils and windings.
- Self-fluxing providing excellent soldered connections with solder temperatures as low as 360°C.
- Exceptional film flexibility and adhesion resisting winding damage.
- Extremely resistant to a variety of solvents including most varnishes and hardener catalysts.

General Information

References are provided for comparative purposes

NEMA: MW 80-C

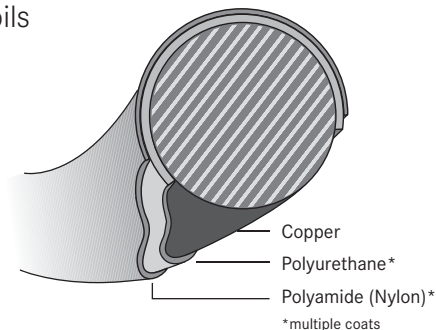
UL: file number. E37683

Availability

Round	single	heavy
copper	10-39 AWG	10-36 AWG

Typical Applications:

Coils (particularly random wound), universal motors, relays, lighting ballast transformers, fractional HP motors, torroidalcoils, and ignition coils

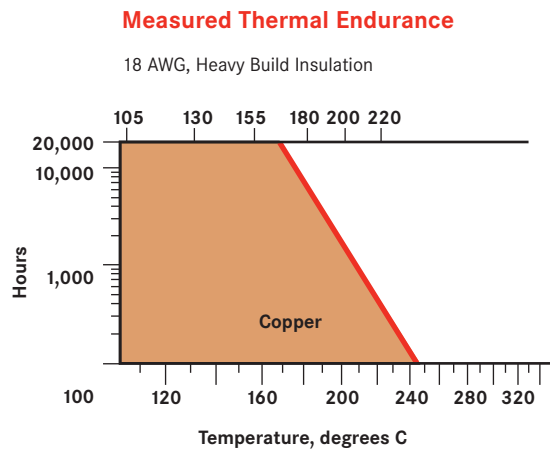


Typical Properties

This data is typical of 18 AWG copper, heavy build insulation only. It is not intended to be used to create specification limits.

Thermal

Thermal Endurance		
20,000 hr life	>160°C	
Thermoplastic Flow	minimum	typical
	200°C	255°C
Heat Shock (20% 3x)		
1/2 hr at 175°C minimum no cracks		
Solderability		
@ 430°C (800F): 3 Seconds (flux recommended)		
Stress Relief Temperature		
130°C		



Mechanical

Mandrel Flexibility	minimum	typical
After Elongation	20% 3x OK	30% 1x OK
After Snap	3x OK	1x OK
Unilateral Scrape		
Avg. of 3 sides	1150 gms	1500 gms

Electrical

Dielectric Breakdown	
@ RT	10.0 kV
@ 155°C	6.0 kV
High Voltage Continuity	
NEMA @ 1500 V DC:	5 faults/100 feet max
typical @ 2000 V DC:	0-1 faults/100 feet

Chemical

Resistance to Solvents Including	
After 24 hrs @ RT: Pass,	
Xylene	
50/50 Cellosolve/Xylene	
Perchloroethylene	
1% NaOH	
28% Sulfuric Acid	
Freon TMS	