Nysol®/155 NS

APPLICATIONS

Typical Applications

Coils (particularly random wound), universal motors

Relays

Lighting ballast transformers

Fractional HP motors

Torroidal coils

Ignition coils

PRODUCT DESCRIPTION

Thermal Class: 155

Solderable without prior insulation removal

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

†DuPont trademark

Features and Benefits

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 No. E37683

Standard Color:

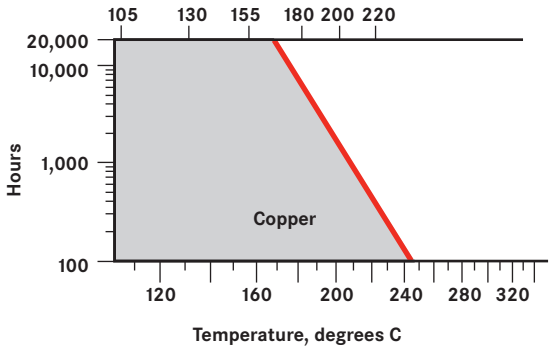
Red

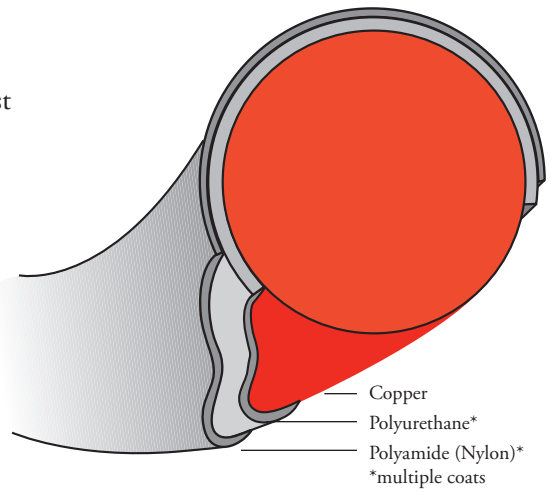
Availability:

Single and Heavy	10-54 AWG
Quad	10-31 AWG

Measured Thermal Endurance

18 AWG, Heavy Build Insulation





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NS

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
Min: 200°C
Typical: 230°C

Heat Shock (20% 3x)
1/2 hr @ 175°C min: no cracks

Solderability
@ 430°C (800°F): 3 seconds (flux recommended)

Stress Relief Temp:130°C

MECHANICAL

Mandrel Flexibility

After Elongation	min: 20% 3x OK typical: 30% 1x OK
After Snap	min: 3x OK typical: 1x OK

Unilateral Scrape

Avg. of 3 sides	min: 1150 gms typical: 1500 gms

ELECTRICAL

Dielectric Breakdown
@ RT: 8.5 kV
@ 155°C: 6.0 kV

High Voltage Continuity
NEMA @ 1500 V DC:
5 faults/100 feet max

Typical @ 3000 V DC:
0-1 faults/100 feet

CHEMICAL

Resistance to Solvents
After 24 hrs @ RT: Pass,

Solvents Including:
Xylene
50/50 Cellosolve/Xylene
Perchloroethylene
1% NaOH
28% Sulfuric Acid
Freon TMS

Procedure followed to determine published value:

NEMA = National Electrical Manufacturers Association
JIS = Japanese Industrial Standards
IEC = International Electrotechnical Commission
ASTM = American Society for Testing and Materials

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