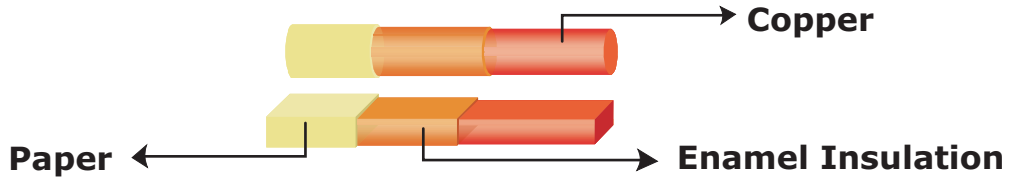




FIOS ESMALTADOS

# FIPEL E - MW 31C, MW 33C

## PRODUCT CONSTRUCTION



## GENERAL INFORMATION

### INSULATION

One or more tape layers over enameled wire (\*)

### REFERENCES

**Round wires**  
MW-31C

**Square and rectangular wires**  
MW-33C

### MAIN USES

- Oil filled transformes
- Dry transformers

### AVAILABILITY

**Round wires**  
04 to 10 AWG

**Square and rectangular wires**  
See Graph

### PROPERTIES

(\*) Enameled wire: Polyvinyl acetal, NEMA MW 18C for square and rectangular wires and NEMA MW 15C for round wires

- High thermal stability and good electrical strength of the insulation

## TYPICAL PROPERTIES

### MECHANICAL PROPERTIES

#### Flexibility by bending in mandrel 6x thickness

Rectangular Wires  
Don't exposure the enameled wire

Round Wires  
-

#### Adherence and flexibility after bending in mandrel 5d

Rectangular Wires  
-

Round Wires  
Don't exposure the enameled wire

#### Elongation to rupture in 250mm

Rectangular Wires  
38 to 43% (NEMA-Min.30%)

Round Wires  
In median 30% above specification (NEMA-20 to 40% depending the dimension)

#### Springback

Rectangular Wires  
2° to 3° (NEMA-Max.5°)

Round Wires  
2° to 3° (NEMA-Max.5°)

### THERMAL PROPERTIES

#### Thermal Class

- 90° C - Unimpregnated
- 105°C - Impregnated or in oil

### ELECTRICAL PROPERTIES

#### Dielectric Breakdown to rupture

Rectangular Wires  
-

Round Wires  
In median 50% above specification (NEMA-1490 to 2980 V depending the dimension and insulation build)