



ERBA ISOLANTI srl

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| | | | |
|-----------------|---|-------------------|------|
| DATE: 27 Lug 93 | E-NX 10 UNIVERSAL HOOK-UP WIRE STRANDED CONDUCTORS | Codice | TNX |
| Agg.: 16.Feb.06 | | Scheda tecnica | 15 6 |
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Polyurethane
varnish

Polyester fibre
braid

Wrap
NOMEX®

Wrap
Polyester
foil

Diacetate silk
lapping only
from mm² 0,14
to mm² 2,50

Stranded copper
bare or tinned

DESCRIPTION

Composite insulation of cable E-NX10 assure high mechanical and abrasion resistance, good aging behaviour, good dielectric strenght under compression and good behaviour to thermal load. Besides flexibility is good and outside diameters are particulary small.

UL version is available with other construction. Ref E-NX10 UL : File E251657 UL-Style No.:5196

APPLICATION

Electrical motors and transformers, temperature class F (+155°C)

CONSTRUCTION

| | |
|--------------|---|
| -Conductor: | stranded copper, bare or tinned |
| -Insulation: | Cover: Diacetate silk (only for 0,14-2,50 mm ²) lapping |
| | Wrap: Polyester foil, NOMEX® aramid paper |
| | Braid: Polyester fibre |
| | Varnish: Polyurethane |

SPECIFICATION

| | |
|-------------------------|--|
| Insulation resistance: | 200 MΩ/km, measured according to VDE 0472, paragraph 502, test circuit C3; |
| Dielectric strenght: | 3,5 kV minimum, measured to VDE 0472, paragraph 509, test method 1.2 |
| Test Voltage: | 4 kV at 50 Hz/2 min.; |
| Operating voltage: | 800 V max.; |
| Temperature class: | F (+ 155°C); |
| Thermal stability: | 155°C /4 hrs: nominal 20% measured to VDE 0472, paragraph 609; solder iron shrinkage at 350°C/10 s: 1 mm, measured to VDE 0472, paragraph 608; |
| Resistance to sticking: | 70°C/5 hrs to VDE 0472, paragraph 606; |
| Flexibility: | to VDE 0472, paragraph 603 b; |



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SIZES

| Cross-sectional area mm ² | Conductor construction n x mm | Outside Ø nominal mm | toll +/- | Conductor Resistance at +20°C max. Ω/km | Max. current rating at ambient temperatures (1) | | m |
|---|-------------------------------------|----------------------------|-------------|--|---|--------------|-----|
| | | | | | 105°C [A] | 120°C [A] | |
| 0.37 | 12 x 0.20 | 1.80 | 0,10 | 50 | 9,5 | 7,5 | 200 |
| 0.50 | 16 x 0.20 | 1.90 | 0,10 | 37.1 | 12,0 | 10,0 | 200 |
| 0.75 | 24 x 0.20 | 2.20 | 0,10 | 24.8 | 14,0 | 13,0 | 200 |
| 1.00 | 32 x 0,20 | 2.35 | 0,10 | 18,5 | 18,0 | 15,0 | 200 |
| 1.50 | 30 x 0,25 | 2.60 | 0,10 | 12,7 | 23,5 | 18,0 | 200 |
| 2.50 | 50 x 0,25 | 3.00 | 0,10 | 7,60 | 32,0 | 25,0 | 100 |
| 4 | 56 x 0.30 | 4.00 | 0,15 | 4.73 | 43,0 | 35,0 | 100 |
| 6 | 84 x 0.30 | 4.90 | 0,20 | 3.14 | 53,0 | - | 50 |
| 10 | 80 x 0.40 | 5.80 | 0,20 | 1.84 | 66,0 | - | 50 |
| 16 | 128 x 0.40 | 7.00 | 0,20 | 1.16 | 86,0 | - | 50 |
| 25 | 200 x 0.40 | 8.50 | 0,25 | 0.743 | 113 | - | 50 |
| 35 | 280 x 0.40 | 10.20 | 0,25 | 0.529 | 145 | - | 50 |
| 50 | 400 x 0.40 | 11.70 | 0,30 | 0.369 | 180 | - | 25 |
| 70 | 560 x 0.40 | 14.00 | 0,40 | 0.260 | 226 | - | 25 |
| 95 | 485 x 0.50 | 16.00 | 0,40 | 0.203 | 271 | - | 25 |

(1) The informations about the nominal cross-section 6 ... 95 have been extrapolated.

STANDARD PUT-UPS

from mm² 0.50 to mm² 10: On stock white color with red or black lines

from mm² 16 to mm² 50: On stock white color only

Upon request

sizes mm² 70 and 95

colors: white with following colored lines: blu, yellow, brown with green lines

UL version is available with other construction. Ref E-NX10 UL :

File E251657

UL-Style No.:5196

Project No.:04CA48305

® TRADE MARK DU PONT DE NEMOURS