SynFlex Elektro GmbH
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SynTex® 155

SynTex® 155 is a flexible low voltage lead-out cable consisting of one cable made of bare or tinned wires and coated with a multi-layer insulation. The multi-layer insulation consists up to 2.5 mm² of braided acetate silk with an additional polyester film which is counterwound with Nomex® paper. Finally, it is braided with a polyester filament yarn and coated with polyurethane.

Attributes

SynTex® 155 achieves thermal class F (155 °C) and provides excellent thermal resistance, even for short-term thermal overload, due to its textile insulation. In addition to its high abrasion resistance, this type of insulation also offers excellent dielectric strength. Cable skinning occurs mechanically. SynTex® 155 is halogen and silicone free. 0.25 - 2.50 mm² with acetate silk braiding, 4.00 - 95.00 mm² without braiding.

Application

SynTex® 155 is used as a connection cable in high-quality electric motor and transformer applications under permanent high thermal and mechanical stress. It also offers sufficient safety for applications with permanent high thermal stress in apparatus, machine and plant engineering.

Standards

- DIN VDE 0472

Delivery forms

Standard delivery form:

Nominal cross section / m²	Length / m	Format
0.25 - 4.00	100	rings
6.00 - 35.0	50	rings
50.0 - 95.0	25	rings

Conductor

Tinned copper wire DIN VDE 0472.

Semi-concentric cable made of bare or tinned wires. The dimensions specified in the technical datasheet are regarded as standard values. The actual cross sections may vary. The cables are manufactured according to European standards with a metric conductor cross section. Always observe relevant standards valid for divergent operating conditions when laying for greater limit current loads.

The information on this data sheet is based on the information provided by our supplier. It does not represent any specification or agreements regarding conditions or properties. The indicated values are standard values. Deviations from those values due to production and application cannot be excluded. The information on this data sheet is addressed to experts who use it at their own discretion and at their own risk. We do not guarantee results, or accept liability for the indicated specifications or for results obtained based on the specifications. Please contact us for more detailed information. Non-toxic and toxic substances are listed on the safety data sheet.
Updated 05/18

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Color

White is the standard colour as well as plain red, green, blue and black.

0.25 - 6.00 mm² white also with yellow, green, red, blue, black, violet, or grey tracer.

All diameters up to 6 mm² also available in uni-colours. From 10 mm² also white is available.

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Dimension	Unit of measure						
Nominal cross section	mm²	0.25	0.50	0.75	1.00	1.50	2.50
Strands x diameter	mm	14 x 0.15	16 x 0.20	24 x 0.20	32 x 0.20	30 x 0.25	50 x 0.25
Outer diameter	mm	1.70	1.90	2.20	2.35	2.60	3.00
Tolerance	mm	±0.10	±0.10	±0.10	±0.10	±0.10	±0.10

Dimension	Unit of measure						
Nominal cross section	mm²	4.00	6.00	10.00	16.00	25.00	35.00
Strands x diameter	mm	56 x 0.30	84 x 0.30	80 x 0.40	126 x 0.40	196 x 0.40	280 x 0.40
Outer diameter	mm	4.00	4.90	5.80	7.00	8.50	10.20
Tolerance	mm	±0.15	±0.20	±0.20	±0.20	0.25	±0.25

Dimension	Unit of measure			
Nominal cross section	mm²	50.00	70.00	95.00

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Dimension	Unit of measure			
Strands x diameter	mm	399 x 0.40	560 x 0.40	483 x 0.50
Outer diameter	mm	11.70	14.00	16.00
Tolerance	mm	±0.30	±0.40	±0.40

Mechanical	
Bend radius	≥ 4 x outer diameter

Thermal	
Thermal class	F
Temperature range	-40 up to +155 °C
Thermal pressure	appr. 20 %

Electrical	Unit of measure	
Operating voltage	V	max. 800
Insulation resistance	Ω	≥ 200 MΩ x km
Testing voltage		4.0 kV (Sinus/50Hz/2 min)

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