

Syntex[®] 155

Syntex[®] 155 is a flexible low voltage lead-out cable Description

consisting of one cable made of bare or tinned wires and coated with a multi-layer insulation. The multi-layer insulation consists of braided acetate silk with an additional polyester film which is counterwound and has approx. 40% overlapping with Nomex® paper. Finally, it is braided with a polyester filament yarn and coated with

polyurethane.

Syntex[®] 155 achieves thermal class F (155 °C) and **Properties**

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

Syntex[®] 155 is used as a connection cable in high-quality **Application**

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.

VDE 0295 / IEC 60228, class 5 **Standards**

RoHS compliant according to 2002/95 EC



Syntex® 155

Conductor Tinned copper wire VDE 0295 / IEC 60228 class 5.

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.

Colour 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.

Above 50.0 mm² only available in white.

Delivery format	Conductor cross section mm ²	Format length in a ring	
	0.25 - 0.50	200 m	
	0.75 - 4.00	100 m	
	6.00 - 35.00	50 m	
	50.0 - 95.00	25 m	

Other cross sections available on request.

Syntex® is a registered trademark of Synflex



Syntex® 155

Technical data

Thermal	Thermal class	F	
	Temperature range	- 40 to + 155 ℃	
	Thermal pressure	Approx. 20%	
Electrical	Operating voltage	Max. 800 V	
	Testing voltage	4.0 kV (sinus/50Hz/2 min)	
	Insulation resistance	≥ 200 MΩ x km	
	·		
Mechanical	Bend radius	≥ 4 x outer diameter	
Chemical	Insulation	Layer insulation according to description	
	Resistance	Resistant to all common impregnants Resistant to oil	



Syntex® 155

Dimensions

Nominal cross section [mm ²]	Strands x diameter [standard values]	Cu weight [kg/100m]	Outer diameter [mm]
0.25	14 x 0.15	0.25	1.70
0.50	16 x 0.20	0.50	1.90
0.75	24 x 0.20	0.75	2.20
1.00	32 x 0.20	1.00	2.35
1.50	30 x 0.25	1.50	2.60
2.50	50 x 0.25	2.50	3.00
4.00	56 x 0.30	4.00	4.00
6.00	84 x 0.30	6.00	4.90
10.00	80 x 0.40	10.00	5.80
16.00	126 x 0.40	16.00	7.00
25.00	196 x 0.40	25.00	8.50
35.00	280 x 0.40	35.00	10.20
50.00	399 x 0.40	50.00	11.70
70.00	560 x 0.40	70.00	14.00
95.00	483 x 0.50	95.00	16.00