# CABLES / KÁBLE

7. HEAT SHRINKABLE TUBING PRODUCTS

Heat shrink joints for 5-core cables



SVCZ

### Application

Outer heat shrink plastic joints SVCZ are intended for connection of 5-core plastic insulated cables type AYKY, CYKY etc., up to 1 kV.

# Marking

Identification marking consists of a letter symbol SVCZ, followed by a number indicating phase core cross-section. In case a joint kit has compression cable connectors suitable for both aluminum and copper conductors, a letter symbol S AI, or S Cu is added (depending whether compression cable connectors are made of aluminum (AI), or copper (Cu). Marking example:

SVCZ 5x35 - S Al is a heat shrink joint for cables AYKY (CYKY) 5x35 with Al compression cable connectors

SVCZ 5x25 is a heat shrink joint for cables AYKY (CYKY) 5x25 (without compression cable connectors)

Packaging: SVCZ 5-core joints are supplied in PE bags, containing 1pc of a heat shrinkable tube for outer protection and 5 pcs of core insulation tubes and 5 pcs of connectors

## Specifications

All necessary assembling accessories of the kit consist of 5 pcs of heat shrinkable insulation tubes in order to create insulation surrounding in the place of core connection achieved by compression cable joints and 1 pc of heat shrinkable tube for outer protection. Both insulation and heat shrinkable tubes are covered by hot melt adhesive, covering the whole inner side length, for guaranteeing excellent sealed connection properties.

Tubes are manufactured from cross-linked PE (properties displayed in the Tab. 1).

The Tab. 2 provides a detailed description of the particular types of joints. The Tab. 3 and Fig. 1 display positioning of cables in joints.

Tab. 1 Material properties (cross linked PE)					
Tensile strength	[MPa]	min. 13			
Elongation at break	[%]	min. 350			
Shrink temperature	[°C]	150 - 200			
Operating temperature - long-term - short-term	[ <b>'C</b> ]	100 150			
Volume resistivity	[Ω.m]	10 <sup>13</sup>			
Dielectric strength	[kV/mm]	12			



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# Tab. 2 Dimensions of heat shrink joints SVCZ for 5-core cables (16-240 mm²)

	No/Core cross-	No/Core cross- Insulation tube for cores		Sheath tube		Joints			
Typ spojky	section	$d_1/d_2$	Li	QTY	$d_1/d_2$	Lp	QTY	Code	QTY
	[pcs x mm <sup>2</sup> ]	[mm]	[mm]	[pcs]	[mm]	[mm]	[pcs]	[cross-section]	[pcs]
SVCZ 5x 16-35	5 x 16	17/5	150		50/18	600	1	16	5
	5 x 25			5				25	5
	54 x 35							35	5
SVCZ 5x 50-70	5 x 50	30/10	200	5	80/30	800	1	50	5
	5 x 70							70	5
	5 x 95						95	5	
SVCZ 5x 95-150	5 x 120	37/14	220	5	100/42	1000	1	120	5
	5 x 150							150	5
SVCZ 5x 185-240	5 x 185	42/16	250	5	112/46	113/46 1000	1	185	5
	5 x 240				113/40			240	5

**SVCZ** 

Li, Lp - Lengths of tubes (expanded as supplied)

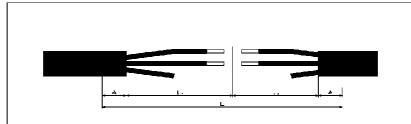
d1 - Expanded as supplied  $\emptyset$  d1 min

d2 - Fully recovered Ø d2 max

# Tab. 3 Positioning of cables and dimensions for installation of joints SVCZ for cables (16-240mm<sup>2</sup>)

Code	No/Core cross -section	Dimensions					
		L	L <sub>2</sub>	A	L		
	[pcs x mm <sup>2</sup> ]	[mm]	[mm]	[mm]	[mm]		
	5 x 16		120	120	600		
SVCZ 5x16-35	5 x 25	240					
	5 x 35						
SVCZ 5x 50-70	5 x 50	300	160	145	800		
	5 x 70						
SVCZ 5x 95-150	5 x 95		200	170	1000		
	5 x 120	360					
	5 x 150						
SVCZ 5x 185-240	5 x 185	370	210	210	1000		

# Fig. 1



### Heat shrink joints SVCZ are supplied in PE bags (1 kit).

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