



Heat shrink joints with bolted connectors with shear head screws



Application

Outer heat shrink plastic joints with bolted connectors with shear head screws are designed for connection of 4-core plastic insulated cables type AYKY 16-240mm² and CYKY 16-150 mm² up to 0,6/1 kV.

Marking

Identification marking consists of a letter symbol SVCZSS, followed by a number indicating core cross-section range.

Marking example: for 4-core cables /with same cross-section/
SVCZSS-95-150 Al/Cu is a heat shrink joint for cables AYKY, CYKY 3x95+70, 3x120+70 and 3x150+70.

Marking example: for 4-core cables /common construction/
SVCZSS 4 x 95-150 Al/Cu is a heat shrink joint for cables AYKY, CYKY 4x95, 4x120 and 4x150.

Packaging: joints SVCZSS are supplied in PE bags, containing 1pc of a heat shrinkable tube for outer protection, 4 pcs of core insulation tubes and 4pcs of bolted connectors with shear head screws.

Specifications

Joints for 4-core cables consist of 4 (or 3+1) pcs of heat shrinkable insulation tubes in order to create insulation surrounding in the place of core connection, 1 pc of heat shrinkable tube for outer protection and 4 (or 3+1) pcs of bolted connectors with shear head screws for joining cable cores.

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, 3, 4 provide a detailed description of the particular types of tubes. The Tab. 5 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	[°C]	100
- short-term		150
Volume resistivity	[Ω.m]	10 ¹³
Dielectric strength	[kV/mm]	12



Tab. 2 Dimensions of heat shrink joints SVCZSS for 4-core cables with 16 - 240 mm² cross-section of common construction (with different cross-section from 95 mm² incl., earthing conductor is of smaller cross-section than phase conductor)

Code	No/Core cross-section	Insulation tube for cores			Sheath tube			Bolted connectors	
		d ₁ /d ₂	L _i	QTY	d ₁ /d ₂	L _p	QTY	Code	QTY
	[pcs x mm ²]	[mm]	[mm]	[pcs]	[mm]	[mm]	[pcs]	type	[pcs]
SVCZSS 4-10 Al/Cu	4	12.4	100	4	40/12	400	1	KSS 4/10P	4
	6								
	10								
SVCZSS 16-35 Al/Cu	4x16	17/5	150	4	50/18	600	1	KSS 6-35P	4
	4x25								
	4x35								
SVCZSS 50-70 Al/Cu	4x50	30.10	200	4	65/27	800	1	KSSTD 16-95P	4
	4x70								
SVCZSS 95-150 Al/Cu	3x95+70	37/14	220	3	80/32	1000	1	KSSTD35-150P	3
	3x120+70	30.10	200	1				KSSTD 16-95P	1
	3x150+70								
SVCZSS 185-240 Al	3x185+95	42/16	250	3	100/42	1000	1	KSSTD 150-240	3
	3x240+120	37/14	220	1				KSSTD 35-150P	1

Tab. 3 Dimensions of heat shrink joints for 4-core cables with same cross-section

Code	No/Core cross-section	Insulation tube for cores			Sheath tube			Bolted connectors	
		d ₁ /d ₂	L _i	QTY	d ₁ /d ₂	L _p	QTY	Code	QTY
	[pcs x mm ²]	[mm]	[mm]	[pcs]	[mm]	[mm]	[pcs]	type	[pcs]
SVCZSS 4 x 95-150 Al/Cu	4 x 95	37/14	220	4	80/32	1000	1	KSSTD35-150P	4
	4 x 120								
	4 x 150								
SVCZSS 4 x 185-240 Al/Cu	4 x 185	42/16	250	4	100/42	1000	1	KSSTD 150-240	4
	4 x 240								

L_i, L_p - Lengths of tubes (expanded as supplied)

d₁ - Expanded as supplied Ø d₁ min

d₂ - Fully recovered Ø d₂ max

KSS - bolted connector (BC)

T - Shear head screws (SHS)

D - Spacer (S)

35-150 - Nominal cross section range for particular joint

P - Tinned (T) (KSSTD 150-240 is not tinned, used for Al AYKY cables only)



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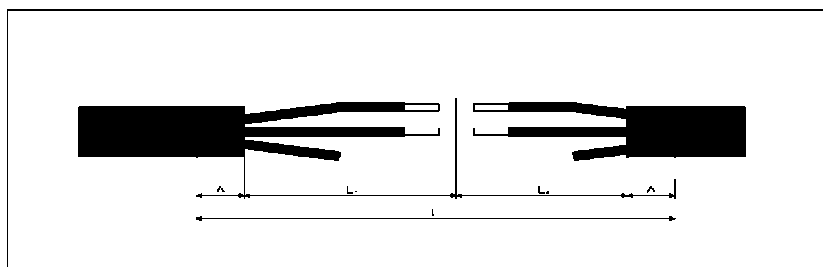


Tab. 4 Positioning of cables and dimensions for installation of joints and bolted connectors

Code	No/Core cross-section [pcs x mm ²]	Dimensions			
		L ₁	L ₂	A	L
		[mm]	[mm]	[mm]	[mm]
SVCZSS 4-10 Al/Cu	4X4	170	90	80	400
	4X6				
	4X10				
SVCZSS 16-35 Al/Cu	4x16	240	120	120	600
	4X25				
	4x35				
SVCZSS 50-70 Al/Cu	4x50	300	160	145	800
	4x70				
SVCZSS 95-150 Al/Cu	3x95+70	360	200	170	1000
	3x120+70				
	3x150+70				
SVCZSS 185-240 Al	3x185+95	370	210	210	1000
	3x240+120				

Code	No/Core cross-section [pcs x mm ²]	Dimensions			
		L ₁	L ₂	A	L
		[mm]	[mm]	[mm]	[mm]
SVCZSS 4x 95-150 Al/Cu	4x95	360	200	170	1000
	4x120				
	4x150				
SVCZSS 4x 185-240Al	4x185	370	210	210	1000
	4X240				

Fig. 1



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

