ZRPE and ZRPEY

Heat shrink joints

Application

Joints are intended for joining communication cables and pair control cables types TCEKE and TCEKFE (joints ZRPE) and TCEKEY and TCEKEE (joints ZRPEY) with copper conductors of 1,0mm core diameter.

Marking

Identification marking consists of a letter symbol ZRPE (ZRPEY), followed by a number (numbers) indicating nominal number of pairs of joined cable.
Marking example:
ZRPE-1/2/3/4 is a heat shrink joint for cable TCEKE, or TCEKFE with nominal number of 1, 2, 3 or 4 pairs
ZRPEY-7/12 is a heat shrink joint for cable TCEKEY with nominal number of 7, or 12 pairs

Specifications

Heat shrink joint ZRPE and ZRPEY kit components:
-heat shrinkable tube for creating inner coating above connected cores
-reinforced electrical insulation fiber board (one-side Al laminated)
-aid components: aloxite emery tape and a cleaning tissue

Heat shrinkable insulation tube is covered by hot melt adhesive guaranteeing excellent sealed connection properties. Detailed description of assembly is described in a detailed installation instruction manual for joints ZRPE and ZRPEY.
Tubes are manufactured from cross-linked PE (properties displayed in the Tab. 1).
The Tab. 2 provides dimensions of particular joints
Heat shrink joints of type ZRPE are manufactured and supplied in compliance with VUKI corporate standards 22 009 and ZRPEY in compliance with VUKI corporate standards 22 010.

VUKI a.s., Rybničná 38, SK - 831 07 Bratislava, Tel.: +421 2 4488 9906, Fax: +421 2 4488 2927
e-mail: vuki@vuki.sk, www.vuki.sk

Tab. 1 Material properties (cross-linked PE)

		ZR	ZM
Tensile strength	[MPa]	min. 13	min. 15
Elongation at break	[%]	min. 350	min. 450
Shrink temperature	[°C]	150 - 200	150 - 200
Operating temperature - long-term - short-term	[°C]	100 150	100 150
Volume resistivity	[Ω.m]	10^{13}	10^{14}
Dielectric strength	[kV/mm]	12	15

Tab. 2 Dimensions of ZRPE and ZRPEY joints

ZRPE					ZRPEY				
Nominal number of pairs	**Reinforced board**		**Tube**		**Nominal number of pairs**	**Reinforced board**		**Tube**	
	L_a	b	d_1/d_2	L		L_a	b	d_1/d_2	L
	[mm]	[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]
1/2/3/4	220	140	25/8	400	1/2/3/4	220	140	25/8	600
6/7/12	220	220	37/14	420	7/12	220	220	37/14	600
16/24	290	320	47/19	480	16/24	290	320	47/19	720
30/48/61	330	320	70/27	520	30/48/61	330	320	65/27	800

L - Length of tube after shrinking

La - Length of reinforced electrical insulation fiber board measured at axial direction of joint

B - Width of reinforced electrical insulation fiber board

d1- Expanded as supplied Ø d1 min

d2 - Fully recovered Ø d2 max

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e-mail: vuki@vuki.sk, www.vuki.sk