



Technical Data

Heat Shrink Terminations / Joints 7.2 to 33kV

Summary of Test Voltages						
Test	Test Voltage	Rated Voltage U_0/U_m (kV)				
		3.8/6.6 (7.2)	6.35/11 (12)	8.7/15 (17.5)	12.7/22 (24)	19/33 (36)
Humidity and salt fog	$1.25 U_0$	5	8	11	16	24
Partial discharge	$1.73 U_0$	6.5	11	15	22	33
	$2 U_0$	7.5	12.5	17.5	25	38
Heating cycle voltage and AC voltage / 15 min and 500 hrs	$2.5 U_0$	9.5	16	23	32	47.5
AC voltage / 1 min	$4 U_0$	15	25.5	35	51	76
AC voltage / 5 min	$4.5 U_0$	17	28.5	39	57	85.5
DC voltage / 15 min	$6 U_0$	23	38	52	76	114
Impulse (peak)	–	60	95	95	125	194

Test Sequence and Requirements						
	Test	Test Clause of EN 61442	Test Sequence			Test Requirements
			A1	A2	A3	
1	DC voltage dry	5	X	X		15 min at $6 U_0$ no breakdown or flashover
2	AC voltage dry	4	X	X		5 min at $4.5 U_0$ no breakdown or flashover
3	Partial discharge at ambient temperature	7	X			Max 10_pC at $1.73 U_0^{(4)}$
4	Impulse voltage at elevated temperature	6	X			10 impulses of each polarity, no breakdown or flashover
5	Heating cycle voltage in air	9	X			126 cycles at $2.5 U_0$ no breakdown or flashover for terminations and 63 cycles in air and 63 cycles in water for Joints
6	Partial discharge at elevated and ambient temperature	7	X			Max 10_pC at $1.73 U_0^{(4)}$
7	Thermal short circuit (screen)	10		X		2 short circuits at 1_{sc} no breakdown
8	Thermal short circuit (conductor)	11		X		2 short circuits to raise conductor to 6_{sc} of the cable, no breakdown
9	Dynamic short circuit	12		X		1 short circuit at $1_d^{(3)}$ no breakdown
10	Impulse voltage at ambient temperature	6	X	X		10 impulses of each polarity, no breakdown or flashover
11	AC voltage dry	4	X	X		15 min at $2.5 U_0$ no breakdown or flashover
12	Humidity ⁽²⁾	13			X	300 hrs duration at $1.25 U_0^{(5)}$
13	Examination	-	X	X	X	For information only

Shrink Polymer Systems test and qualify our products to the criteria above as outlined in Cenelec standards HD 628 S1 and 629.1 S2:2006. This testing criteria also encompasses VDE 0278 and IEC 60502