

# Cable Test Termination

## Water conditioning unit

CTT serial



## Description:

The CTT series water-insulated cable test terminations are used to test extruded insulation high-voltage cables.

Cable test terminal is always part of a complete system which consists of HV power source, test object, measuring device, related HV connecting and earthing, water cooling system.

The terminal and water conditioning suitable for the test:

- Partial discharge test
- AC withstand test
- Impulse voltage test
- Tan delta test

## General Specification of the Water Terminal

- The terminal suit for Power cable's delivery test, type test and qualification test.
- The terminal is designed for indoor use.
- The terminal consists of 2 sets terminal tubes and one deionizer water condition unit.
- The terminal suitable for 500kV and below XLPE power cable testing
- Remote control is available.
- Rated voltage of the terminal reaches 800kV.
- Before operating, please make sure every unit are safety earthing.
- Terminal is removable, convenient for testing.
- Deionizer resin can be replaced on-site.
- Water storing case has four tubes for water-in and water-out
- There are emergency button, user can press it when emergency situation to keep safety.
- Electric sensor can supervise the temperature, pressure, flow velocity and water electrical conductivity.
- Sensor supply 4-20mA signal to feed programmable processor, the operation mode will display on the control panel.

ITEM / MODE		CTT-100	CTT-150	CTT-300	CTT-400	CTT-500	CTT-600	CTT-700	CTT-800
<b>Un rated voltage</b>	<b>(kV)</b>	100 r.m.s	150 r.m.s	300 r.m.s	400 r.m.s	500 r.m.s	600 r.m.s	700 r.m.s	800 r.m.s
<b>PD level (Un)</b>	<b>(pC)</b>	<1	<1	<1	<2	<2	<2	<2	<2
<b>UI rated impulse voltage</b>	<b>(kV)</b>	450	550	900	1200	1300	1400	1650	1800
<b>Negative polarity</b>									
<b>Max. dimension of power cable *</b>									
<b>(include insulation layer) (mm)</b>		133	133	133	133	133	133	160	180

\* If user need test bigger dimension cables, please contact with Himalaya Sales.

ITEM / MODE		CTT-100	CTT-150	CTT-300	CTT-400	CTT-500	CTT-600	CTT-700	CTT-800
<b>Terminal tilt angle</b>		30°	30°	35°	35°	40°	40°	45°	45°
<b>Dimension (m) L x W</b>		1.6 x 1.2	1.8 x 1.2	3.0 x 1.2	3.6 x 1.2	4.0 x 1.2	4.7 x 1.2	5.8 x 1.4	7.5 x 1.6
<b>Cable mounting height (m)</b>		1.0	1.0	1.0	1.4	1.5	1.6	1.6	1.6
<b>Terminal mounting height (m)</b>		1.6	1.9	2.8	3.7	4.2	5.0	5.5	6.2
<b>Min HV insulation distance (m)</b>		0.8	1.0	1.6	1.9	2.3	2.6	3.3	3.8
<b>Terminal weight</b>									
<b>(two sets together) (kg)</b>		200	250	350	400	450	500	650	800



## Water conditioning unit



The water conditioning unit is used to remove the heat generated by the current flowing through the water and deionize the water that circulates through the terminals.

- Resistance coefficient of the water in conditioning unit  $>2M\Omega\text{-cm}$
- When water temperature higher than  $40^{\circ}\text{C}$ , the external cooling system should properly.
- When device cannot circulate / work, please check water level, the device is designed not work when water level is low.
- When device cannot circulate / work, please check sequence editor, the device is designed not work when pump reversal protection not working.

ITEM / MODE	CTT-100/CTT-150	CTT-500/CTT-600	CTT-700/800
	CTT-300/CTT-400		
Power 50/60Hz	220V/20A	220V/20A	220V/20A
Max cooling capacitance (kW)	60	120	120
Water capaitance (l)	500	500	500
Max temperature (°C)	60	60	60
Max pressure (atm)	4	4	4
Electric conductivity range (μs/cm)	0.1—2	0.1-2	0.1—2
Max. ambient temperature (°C)	35	35	35
Min. ambient Temperature (°C)	3	3	3
Max. cooling water temperature (°C)	20	20	20
Min. cooling water flow velocity (l/min)	45	45	45
Connecting water pipe (in)	1"	1"×2	1"×2
Water pipe head (in)	3/4"	3/4"	3/4"
Dimension (m)	1.2x1.4x1.7	1.2x1.4x1.7	1.2x1.4x1.7
Weight (not include water) (kg)	272	272	272

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