



Cable accessories and connectors

145 kV Dry plug-in GIS/transformer termination TP145



# 145 kV Dry plug-in GIS/transformer termination

### **TP145**

### **Application**

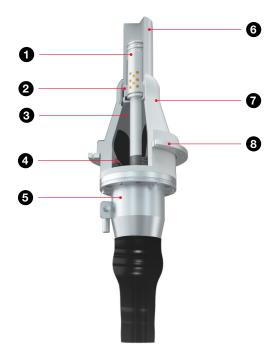
Suitable for 123 kV or 145 kV copper\* Conductor XLPE insulated metal sheath cable and supporting GIS equipment or transformer equipment connection.

### Standard

Designed to meet the requirements of international accepted standards, IEC 60840, IEC 62271-209, IEC 60859 and China standard GB/T 11017.

#### **Features**

- Connector: Bolted to achieve electrical connection through spring contacts
- Locking halves: Made of aluminum alloy and is used to lock the cable insulating layer
- 3 Stress cone: The raw material liquid silicone rubber (LSR), enables a more compact structure. Different sizes are designed to fit cables with different cross-section area, to ensure optimal interface pressure between stress cone and cables, as well as the excellent electrical and insulation performance. All stress cone pass the routine test
- Spring assembly: High-quality spring steel to provide sufficient and durable interfacial pressure
- Cable gland: Provides a good seal and grounding for the termination
- Top connector: Made of silver-plated aluminum to ensure reliable connection to GIS or transformer equipment
- Epoxy insulator: Epoxy insulator adopts imported epoxy resin vacuum pouring molding, internal integrated shielding electrode
- 8 Fixing flange: Connect epoxy insulator to GIS or transformer equipment



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### Main electrical properties

Standard,	Type test	Routine test**
IEC 60840, GB/T 11017	kV	kV
Highest voltage for		
equipment, U <sub>m</sub>	145	145
Rated voltage, U	132	132
Value of U <sub>0</sub> for determination		
of test voltage	76	76
Heating cycle voltage test, 2 U <sub>0</sub>	152/20 cycles	/
Partial discharge test		
<5 pC, 1.5 U <sub>0</sub>	114	114
Switching impulse voltage test	+/-650	/
AC-voltage test, 2.5 U <sub>0</sub>	190, (15 mins)	190, (30 mins)
Visual inspection	Preformed	Preformed

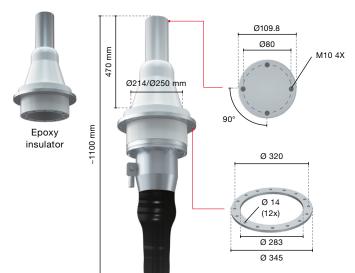
### NOTE

- \* Please contact Hitachi Energy in case of aluminum conductor cable.
- \*\* All stress cone pass the routine test.

## Technical specification

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High-voltage test

### Cable range applicable

Cable type	126 kV	145 kV
XLPE Ø (mm)	57-82	57-82
Conductor (mm²)	240-1200	240-1200
Oversheath Ø (mm)	≤120	≤120

### Packaging information

Туре	Weight (kg)	Dimensions (mm)
TP145	~100	~1600 × 900 × 700*

<sup>\*</sup>For further information, please contact Hitachi Energy.





### **Options:**



Extension rod

### **Storage**

When stored in original, unopened status at normal and dry conditions:

- The stress cone has a shelf life of five years from the date of
- Tape and grease have a shelf life of three years
- · Metal parts have no shelf life limit

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