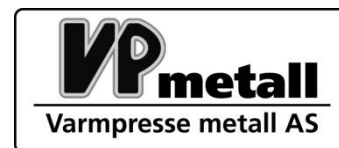


Technical Data Sheet

Implosive Connectors / Dead-Ends



NO: TD Dead-Ends - en
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Design and area of use

DEAD-ENDS



Implosive Connectors is the trading name of:

- Full Tension Joints
- Dead-Ends
- Jumper Terminals
- Full Tension Repair Joints

Dead-end consist of an aluminum sleeve with a forged steel end connector. The implosive charge is pre-wrapped around the aluminum sleeve. For steel conductors a dead-end connector with drilled hole is used, pre-wrapped with an implosive charge. Flange for power outlet is welded to it, and bent 15 degrees.

Dead-End applied to the connection of electrical Overhead lines.

Implosive Connectors can also be used to:

- Anchor of the steel wires
- Fasten backstay for antenna- and high-voltage masts.

Technical data

Explosive	Pentrite (PETN)
Charge weight	0,057-2,2 kg
Detonation Velocity	Ca 6900 m/s
Diameter of Conductors	7,65-56,7 mm
Type of Conductors	ACSR-, steel- and aluminum conductors
Min. strength detonator for safe initiation	Detonator no. 8
Min/max user temperature	From $\pm 30^{\circ}\text{C}$ to $+60^{\circ}\text{C}$

Special features

The eye bolt must be turned to correct position before compression. This feature further simplifies the installation procedure. The Dead-End is easy to install and is ready to use after activation. A number of units can be activated simultaneously.

Application and Security Regulations

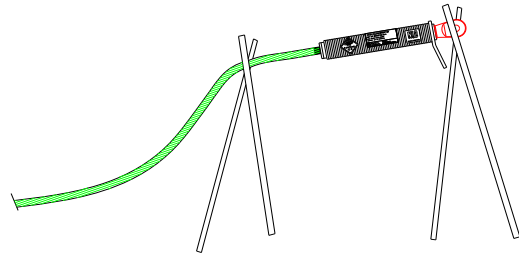
- Detonating cord must only be cut with a sharp knife or other tool specifically designed for such purpose, preferably under laid by a soft material, e.g. wood.
- Detonating cord must be initiated by a detonator (strength No. 8) or an igniter.
- Wet PETN has low sensitivity; interruption in detonation may occur.

- Dry PETN is very sensitive to impacts and blows; unintentional detonation may occur.
- In case of spillage or if remainders of detonating cord are found after blasting, these must be collected and treated as explosives.
- Safety distance min. 50 m away from the Dead-Ends.

Detonation

- Put the conductor end, connected with the Dead-End, on the rack approx 1 mtr above the ground. A simple rack may be used.
- It is of utmost importance that the fitting is correctly installed. Inaccuracy may cause reduced gripping length, and reduced holding power.
- Tape the detonator to the explosive charge. Check that the detonator is placed correctly, parallel to the conductor, and taped tight against the explosive, as shown in THE SPECIAL MANUAL; PART 3, DETONATION 2
- Do the blasting of the joint.

- After detonation remove remains of the PVC



house, and the Dead-End is finished.

Dead-End							
Type	Dimensions mm		Net weight kg		Gross weight kg		Qty per box
	Cond.dia	Length	Dead-E.	Box	Dead-E.	Box	
ACSR Conductor	17,38-56,7	420-1300	2,1-51,4	12,6-51,4	2,9-23,2	17,6-54,4	1-6
Steel Conductor	7,65-25,7	290-545	1,53-10,6	9,18-36	2,36-7,2	14,18-43	2-6
Alum. Conductor	19-39,2	370-550	2,1-4,6	12,6-27,6	2,93-5,8	17,6-34,6	6

Storage conditions	
Shelf life	20 years from date of production marked on Dead-End and box. Extension of shelf life after testing.
Humidity	Dry and airy.

Approval and classification	
Notified Body	CE 0812 (PvTT Finland)
EC Type Examination Certificate	PvTT 217-10
Proper shipping name	Implosive connectors
UN-number	0443
Transport class	1.2 D

Destruction of Dead-End
Refer to national laws and regulations.

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