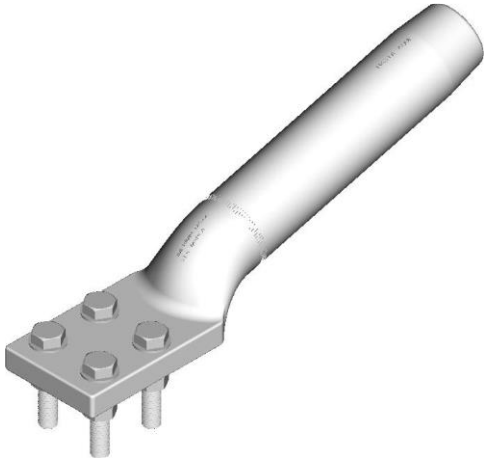
Installation procedure and safety considerations for

COMPRESSION TERMINAL JUMPER FOR ACSR & ACSS CONDUCTORS

Make sure to read and fully understand this procedure before installing the product, as well as verifying that the selected PREFORMED® product is suitable.



The correct installation of this product requires the use of a power unit with a hydraulic press with a minimum pressure capacity of 700 bar [10,000psi] along with the corresponding hexagonal die. The dies shown in the table 1 – "Compression Dies" are suitable for this press.

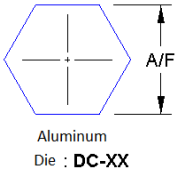


Table 1 – Compression Dies		
Jumper Catalog Prefix	Die Catalog **DC-XX**	A/F Aluminum mm [in]
ZTC-14	DC-28	28.0 [1.10]
ZTC-22	DC-32	31.7 [1.25]
ZTC-28	DC-40	40.0 [1.57]
ZTC-30	DC-43	43.0 [1.69]
ZTC-32	DC-44	44.0 [1.73]
ZTC-40	DC-55	55.0 [2.17]

1. CONDUCTOR PREPARATION

1.1 To improve product performance, make sure to thoroughly clean the surface to be introduced in the compression jumper.

1.2 Insert the conductor in the compression jumper body and make sure it is all the way in.

1.3 After selecting the DC-XX compression die according with the product catalog (see tables 1 and 2), compress as many times as necessary for the "L" length shown in table 2, make sure that the conductor reaches the end completely before installation.

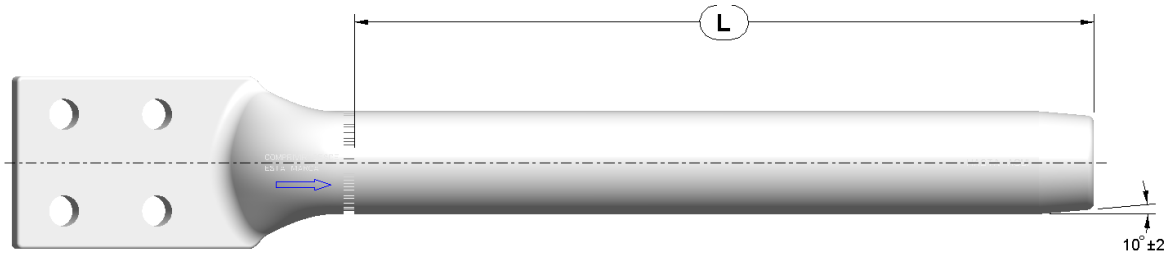


Table 2 – Installation Length				
CATALOG	ANGLE	CONDUCTOR	SIZE RANGE	L in[mm]
ZTC-14-0N4	0°	ACSR	12-14mm	4.5 [114]
ZTC-28-0N4	0°	ACSR	28-30mm	5.06 [128]
ZTC-28-0N4HT	0°	ACSS	28-30mm	9.25 [235]
ZTC-32-0N4	0°	ACSR	30-32mm	5.06 [128]
ZTC-32-0N4HT	0°	ACSS	30-32mm	9.25 [235]
ZTC-40-0N4	0°	ACSR	38-40mm	6.06 [153]
ZTC-22-15N4	15°	ACSR	20-22mm	3.87 [98]
ZTC-22-15N4HT	15°	ACSS	20-22mm	9.50 [241]
ZTC-28-15N3	15°	ACSR	28-30mm	3.87 [98]
ZTC-28-15N4	15°	ACSR	28-30mm	5.31 [135]
ZTC-28-15N4HT	15°	ACSS	28-30mm	9.50 [241]
ZTC-32-15N3	15°	ACSR	30-32mm	4.62 [117]
ZTC-32-15N4	15°	ACSR	30-32mm	5.31 [135]
ZTC-32-15N4HT	15°	ACSS	30-32mm	9.50 [241]

Compress from the mark along the shown direction.

1.4 The Compression Jumper is designed to meet the requirements specified in the standard **ANSI C119.4-2004**, in order to not damage the conductor and establish an efficient electric connection.

NOTE: PLP Compression Jumper is delivered along with HDG finish steel bolts and nuts. Consult your PLP adviser.
****HDG: Hot-dip Galvanization.***

SAFETY CONSIDERATIONS

1. This installation procedure does not intend to replace any company safety guidelines. This procedure is only meant to demonstrate a safe installation. WARNING: NOT FOLLOWING THIS PROCEDURE AND RESTRICTIONS MAY RESULT IN INJURY OR EVEN DEATH.
2. This product is designed for being used by capable technicians. THIS PRODUCT MUST NOT BE USED BY PERSONNEL UNTRAINED OR UNFAMILIAR WITH THE USE OF SUCH.
3. When working with energized power lines with this product; be CAREFUL in order to prevent any accident caused by electrical contact.
4. For ADECUATE PRODUCT PERFORMANCE AND PERSONNEL SAFETY, make sure to select both the correct type and size of Compression Jumper before installation.