

PRODUCT DATA SHEET LIGHTNING PROTECTION AND EARTHING SYSTEM COMPONENTS		
Type: LHH-AA-120/120 ed.09/2024		
Description: Exothermic welding 120 mm <sup>2</sup> Cu / 120 mm <sup>2</sup> Cu in line connection		
place in a graphite m	r conductors through exothermic welding. The welding takes ould-crucible, into which has been introduced welding powder welded. The powder is ignited by the starting powder using a	
flint igniter. Molted me	etal from the exothermic reaction flows over the pieces, causing d fused into a solid homogeneous mass.	
Classification as	per IEEE 837 & IPTO TD-112	
	force (EMF) withstand:	
-	rent 130 kA fisrt peak, 55 kArms @ 150ms	
	nstand: 9 kA @ 10s	
	and: 500h of continuous salt spray	Connection type
Classification as		
<ul> <li>Heavy duty (H –</li> <li>General use</li> </ul>	100 KA)	
	stand a static mechanical load	
<ul> <li>Permanent conn</li> </ul>		
Needed equipment		
Code	Description	
10 16 603	Graphite mould of average last of 70-100 connections under	r normal conditions of use
18 20 115		normal conditions of use.
	Exothermic powder	
19 30 160	Handle clamp, allowing to open and close the mould safely	<i>6</i> 11 11
19 00 007	Mould cleaner, to remove the slag and to check tap hole cleaner	arance after making every weld
19 10 032	Flint igniter	
19 80 313	Soft brush for safely cleaning the inner part of the mould after	•
19 50 000	Wire brush used for cleaning the conductors before making	the weld
19 20 315	Mould seal to prevent leakage of the molten weldmetal.	
Installation data		
Conductor's dimensions	120 mm <sup>2</sup> stranded / 120 mm <sup>2</sup> stranded	
Conductor's material Connection	Copper / Copper	
arrangement	In line (B3)	
Installation	Outdoor, buried in ground, embedded in concrete	
Note	For the welding procedure please refer to general instructions O.E.2.1-15, accompanying the mould.	
Testing		
The above exothermic powder has successfully passed the testing requirements of standards:		
<ul> <li>IEC EN 62561-1 "Lightning protection system components (LPSC) – Part 1 : Requirements for connection components". Test report No 30819B by accredited laboratory as per ISO 17025</li> <li>IEEE 837 "Permanent connections used in substation grounding". Test report No 32184*</li> </ul>		
* EMF test performed according to requirements of IPTO (Greek Independent <b>P</b> ower <b>T</b> ransmission <b>O</b> perator) Technical Description TD-112 "Exothermic welding system for use in substation earthing.		
Manufacturing Quality Control		
Manufacturing quality control according standard ISO 9001		
Country of Origin		
Greece		