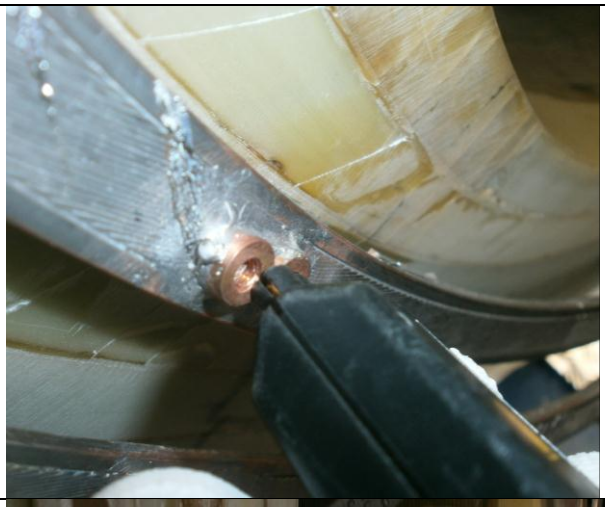
SIGMAPHI MAGNETS AND BEAM TRANSPORT	**2015-02-21 ELECTRICAL ASSEMBLY CONTROL REPORT**	**Customer :** JLAB Date: 21/02/2015 **ΣΦ reference :** 317111 **Drawing :** 317111-JLA-0200-001 rev G **Revision :** A

Measure position:



Equipment used: DLRO10

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1. Before assembly moulding

Required: value after moulding and before connection brazing

Designation : **Coil A**	Identification : Serial N° : **double pancake**	**UNIT**	**REQUIRED**	**RESULT**	**Date Initial**	**ACTION**
GD n°1 DC resistance value at 20° C (100mA)		mΩ	**412**	**416**	LB/VN 20/02/15	
GD n°2 DC resistance value at 20° C (100mA)		mΩ	**454**	**458**	LB/VN 20/02/15	
GD n°3 DC resistance value at 20° C (100mA)		mΩ	**501**	**505**	LB/VN 20/02/15	

Designation : **Coil B**	Identification : Serial N° : **double pancake**	**UNIT**	**REQUIRED**	**RESULT**	**Date Initial**	**ACTION**
GD n°1 DC resistance value at 20° C (100mA)		mΩ	**416**	**417**	LB/VN 20/02/15	
GD n°2 DC resistance value at 20° C (100mA)		mΩ	**466**	**462**	LB/VN 20/02/15	
GD n°3 DC resistance value at 20° C (100mA)		mΩ	**500**	**501**	LB/VN 20/02/15	

Designation : **Assembly (coil A and B)**	Identification : Serial N° : **Assembly**	**UNIT**	**REQUIRED**	**RESULT**	**Date Initial**	**ACTION**
Assembly (Coil A and B) DC resistance value at 20° C (10mA)		mΩ		**2758**	LB/VN 20/02/15	

2. After assembly moulding (before collaring)

Required: value measured before assembly moulding and after connection brazing

Designation : **Coil A**	Identification : Serial N° : **double pancake**	**UNIT**	**REQUIRED**	**RESULT**	**Date Initial**	**ACTION**
GD n°1 DC resistance value at 20° C (100mA)		mΩ	**416**	**419**	LB/DRA 26/03/15	
GD n°2 DC resistance value at 20° C (100mA)		mΩ	**458**	**461**	LB/DRA 26/03/15	
GD n°3 DC resistance value at 20° C (100mA)		mΩ	**505**	**509**	LB/DRA 26/03/15	

Designation : **Coil B**	Identification : Serial N° : **double pancake**	**UNIT**	**REQUIRED**	**RESULT**	**Date Initial**	**ACTION**
GD n°1 DC resistance value at 20° C (100mA)		mΩ	**417**	**419**	LB/DRA 26/03/15	
GD n°2 DC resistance value at 20° C (100mA)		mΩ	**466**	**464**	LB/DRA 26/03/15	
GD n°3 DC resistance value at 20° C (100mA)		mΩ	**500**	**503**	LB/DRA 26/03/15	

Designation : **Assembly (coil A and B)**	Identification : Serial N° : **Assembly**	**UNIT**	**REQUIRED**	**RESULT**	**Date Initial**	**ACTION**
Assembly (Coil A and B) DC resistance value at 20° C (10mA)		mΩ	**2758**	**2771**	LB/DRA 26/03/15	

3. After collaring:

Required: value measured after assembly moulding

Designation : **Coil A**	Identification : Serial N° : **double pancake**	UNIT	REQUIRED	RESULT	Date Initial	ACTION
GD n°1 DC resistance value at 20° C (100mA)		mΩ	**419**	**417**	LB/YP 22/06/15	
GD n°2 DC resistance value at 20° C (100mA)		mΩ	**461**	**459**	LB/YP 22/06/15	
GD n°3 DC resistance value at 20° C (100mA)		mΩ	**509**	**506**	LB/YP 22/06/15	

Designation : **Coil B**	Identification : Serial N° : **double pancake**	UNIT	REQUIRED	RESULT	Date Initial	ACTION
GD n°1 DC resistance value at 20° C (100mA)		mΩ	**419**	**417**	LB/YP 22/06/15	
GD n°2 DC resistance value at 20° C (100mA)		mΩ	**464**	**462**	LB/YP 22/06/15	
GD n°3 DC resistance value at 20° C (100mA)		mΩ	**503**	**500**	LB/YP 22/06/15	

Designation : **Assembly (coil A and B)**	Identification : Serial N° : **Assembly**	UNIT	REQUIRED	RESULT	Date Initial	ACTION
Assembly (Coil A and B) DC resistance value at 20° C (10mA)		mΩ	**2771**	**2758**	LB/YP 22/06/15	

Designation : **Assembly (coil A and B)**	Identification : Serial N° : **Assembly**	UNIT	REQUIRED	RESULT	Date Initial	ACTION
Insulation resistance during 1mn at 1500 Vdc between Assembly and the collars		Ω	**≥ 1.10^6**	**43.4 GΩ**	AJ 29/06/15	
Dielectric test during 1mn at 1500Vdc between Assembly and the collars		/	**OK**	**OK** **I=35.5nA**	AJ 29/06/15	