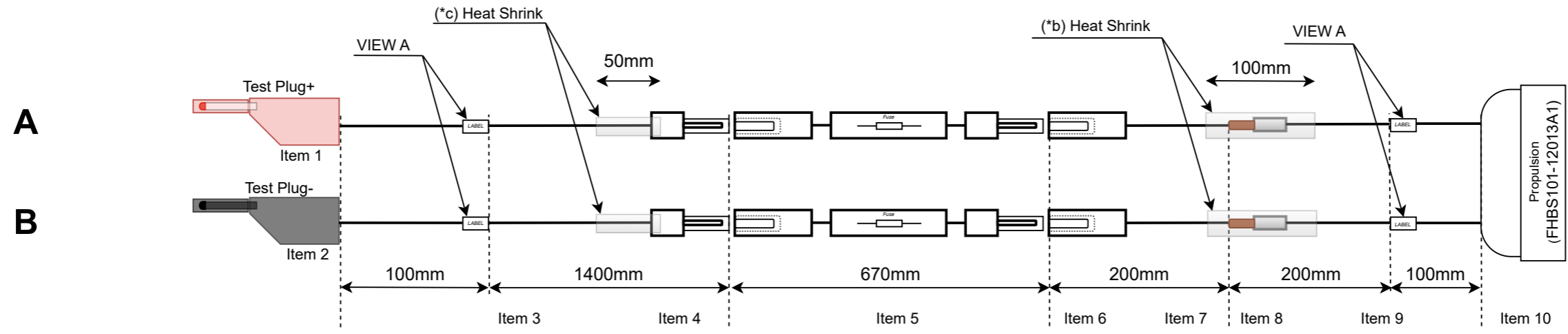


REV	CR NO	DESCRIPTION	AUTHOR
001	N/A	CREATED	Matheus Hagemann

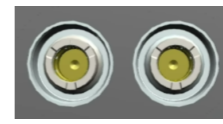
BOM					
Item Number	Part Name	Sales part no.	Description	Qty	Manufacturer
1	22.1027 & 22.2380-22	22.1027 & 22.2380-22	Banana Test Connector, 4mm, Shrouded & Stackable, Plug, Cable Mount, 32 A, 1 kV, Red	1 pc.	Stäubli
2	22.1027 & 22.2380-21	22.1027 & 22.2380-21	Banana Test Connector, 4mm, Shrouded & Stackable, Plug, Cable Mount, 32 A, 1 kV, Black	1 pc.	Stäubli
3	61.7666-999-21	61.7666-999-21	Wire, Silicone, Black, 14 AWG, 2 mm ² , Outer Diameter \varnothing 3.9mm	3 m	Stäubli
4	PV-KBT4-EVO 2A/2.5I	32.0310P0001	MC4-Evo 2 jack, 2.5 mm ² , cable \varnothing 4.7-6.4 mm, 1.5 kV, 39 A	2 pc.	Stäubli
5	PV-K/1500ILF2-4/6E0064UL	32.0419-0064UL	In-Line Fuse, 4 A, gPV, 1.5 kV (DC)	2 pc.	Stäubli
6	PV-KST4-EVO 2A/10II	32.0325P0001	MC4-Evo 2 plug, 10 mm ² , cable \varnothing 6.4-8.4 mm, 1.5 kV, 69 A	2 pc.	Stäubli
7	ÖLFLEX® DC ESS SC 1 X 10.0	85153005	Cable best designed for ESS satisfying DC 1500V, 1 X 10.0 mm ² , \varnothing 7.2mm	0.4 m	Lapp Kabel
8	323R10	323R10	Compression joints Al 16 mm ² rm/sm to Cu 10 mm ² rm/sm	2 pc	Klauke
(*a) 9	5006294	na.	HV Cable (Aluminium)	0.6 m	Rosenberger
(*a) 10	FHBS101-12013A1	10153892	HV Connector Assembly	1 pc.	Rosenberger
(*b) 11	TFE4-1/2-PTFE-CL	339-01279	Heatshrink tubing, 4:1, (12.7/3.66 mm), polytetrafluoroethylene, transparent	200 mm	Hellermannntyton
12	SPF15-PP-BK	162-20150	Spiral Tube 15 mm - 18 mm, PP, black	4 m	Hellermannntyton
(*c) 13	TA42-8/2-PO-X-BK	318-40800	Heat Shrinkable Tubing Thin Wall with Adhesive Liner 4:1, \varnothing : 8.0mm to 2.0mm	100 mm	Hellermannntyton

Tolerances:
 Between connectors: +15mm
 0mm
 Other dimensions: \pm 10mm

*a - HV Connector Assembly (FHBS101-12013A1) and HV Cable (5006294) delivered pre-assembled as cable assy with Part Number L99-P151-XXX
 *b - Shrink Tubing used to isolate the compression joint and mesh shielding of the wire.
 *c - Shrink Tubing used to adjust the diameter of the wire (up size), to tight it on the PV-KBT4-EVO 2A/2.5I connector (shrink tubing area goes inside the connector).

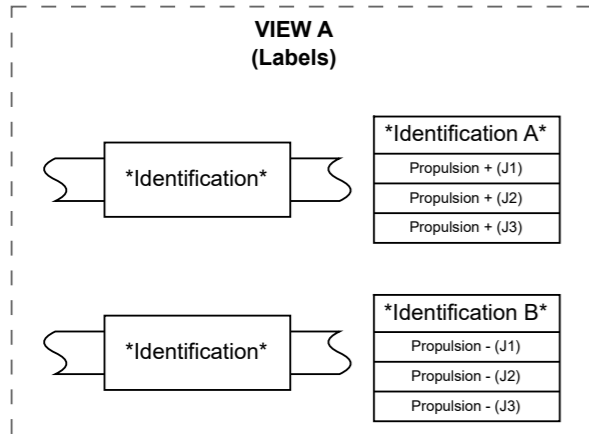


Term	Wire Colour	Wire Name	Signal	Wire Type	Wire Size
A	BK	+	Propulsion+	SINGLE	2mm2
B	BK	-	Propulsion-	SINGLE	2mm2



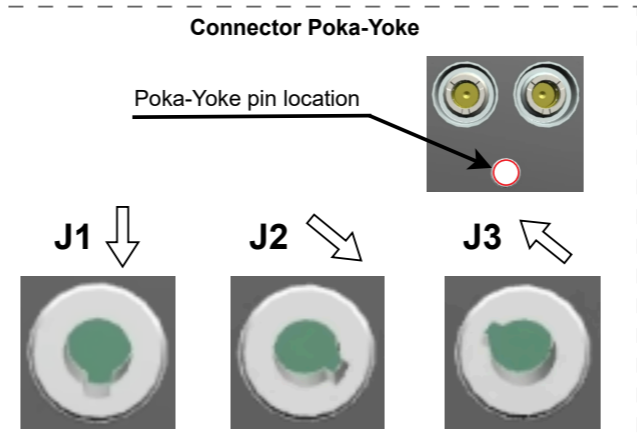
Term	Wire Colour	Wire Name	Signal	Wire Type	Wire Size
A	WH	A	Propulsion+	SINGLE	6AWG (13.3mm2)
B	WH	B	Propulsion-	SINGLE	6AWG (13.3mm2)
#SH	-	SH	Shield	SINGLE	Mesh Shielding

- Connection to the IESU Terminal: J1, J2, J3
 # Shield connected to the connector body. On the cable end, cut off the mesh shielding and isolate it under the Heat Shrink, keep 25 mm of clearance until the main electrical conductor



General Notes

- Please ensure all electrical conductors are fully inside the lug/crimping connectors
- Crimping connections shall be done as shown on the manufacturer manual
- Wrap the cables A (Plus+) and B (Minus-) separately with the Item 12 (Spiral Tube). All connectors must be wrapped from Item 4 to the Item 8 with the Spiral Tube to protect them.



DRAWN: Matheus Hagemann	DATE: 22.08.2024
CHECKED:	DATE:
APPROVED: On TeamCenter workflow	DATE:
MATERIAL: N/A	THEOR. EXACT DIMENSIONS ACC. TO CAD:
STATUS:	PART MARKING ACC. TO:
	TOLERANCING PRINCIPLE:
PART NAME: IESU PROPULSION J1, J2, J3 (BANANA PLUG) HARNESS	STRUCTURE CATEGORY: N/A
PART NUMBER - REVISION: E005296	VARIANT: N/A
	SHEET: A3
	SCALE: N/A
	PROJECT ANGLE:

