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**ENGINEERING CHANGE NOTICE**

Originator:	Wenyu Qin	Date:	Document Number
Phone No.	416-754-3322	April 5, 2026	ECN20260405-00
Email Address:	<a href="mailto:wqin@edacgroup.net">wqin@edacgroup.net</a>	Revision Number	SHEET
Department	Quality	1	3

**CHANGE TYPE:**

- CLASS I Customer notification and approval required prior to implementation
- CLASS II Customer notification only, no approval required
- CLASS III No customer notification required

**REASON OF CHANGE**

Specification Update

**DESCRIPTION OF CHANGE:**

The part 687L0421A501200 will be revised as follows:  
 1. Add cable specification and update core wire color information.  
 2. Update dimensions according to the standard overmolding process.  
 3. Update the housing material from PA46 to HTN.  
 4. Update the mating parts.  
 5. Update the gold plating thickness and operating temperature specification.  
 For detailed change information, please refer to Pages 2.

IMPLEMENTATION: Running Change

**PARTIES AFFECTED**

- Customer
- Distributors
- Suppliers
- NORCOMP
- MH
- ETW
- ECA
- EDG
- EDAC UK

**KEY TARGET DUE DATES IF CHANGE IS APPROVED TO PROCEED** (check if applicable and show target dates as known)

<input type="checkbox"/> Submit Quote	_____	<input type="checkbox"/> PPAP from Supplier	_____
<input type="checkbox"/> Prod. Trial Run	_____	<input type="checkbox"/> MRD of Production Parts	_____
<input type="checkbox"/> Run at Rate	_____	<input type="checkbox"/> UL / CSA / RoHS / REACH	_____

**ACKNOWLEDGEMENT FOR ECN INITIATION: (OPTIONALS)**

<input type="checkbox"/> Tooling Rep	_____	<input checked="" type="checkbox"/> Marketing Rep	<u>Marco Lamanna</u>
<input type="checkbox"/> Mfg Eng Rep	_____	<input type="checkbox"/> Facilities Rep	_____
<input type="checkbox"/> Production Rep	_____	<input checked="" type="checkbox"/> Sales Rep	<u>Esther Marothv</u>
<input type="checkbox"/> Materials Rep	_____	<input type="checkbox"/> Product Eng. Rep.	_____
<input checked="" type="checkbox"/> Quality Rep	<u>Wenyu Qin</u>	<input type="checkbox"/> Purchasing Rep	_____

**STATUS**

APPROVED   
 CCS CHANGE REQUEST # \_\_\_\_\_

**APPROVALS FOR ECN INITIATION (REQUIRED)**

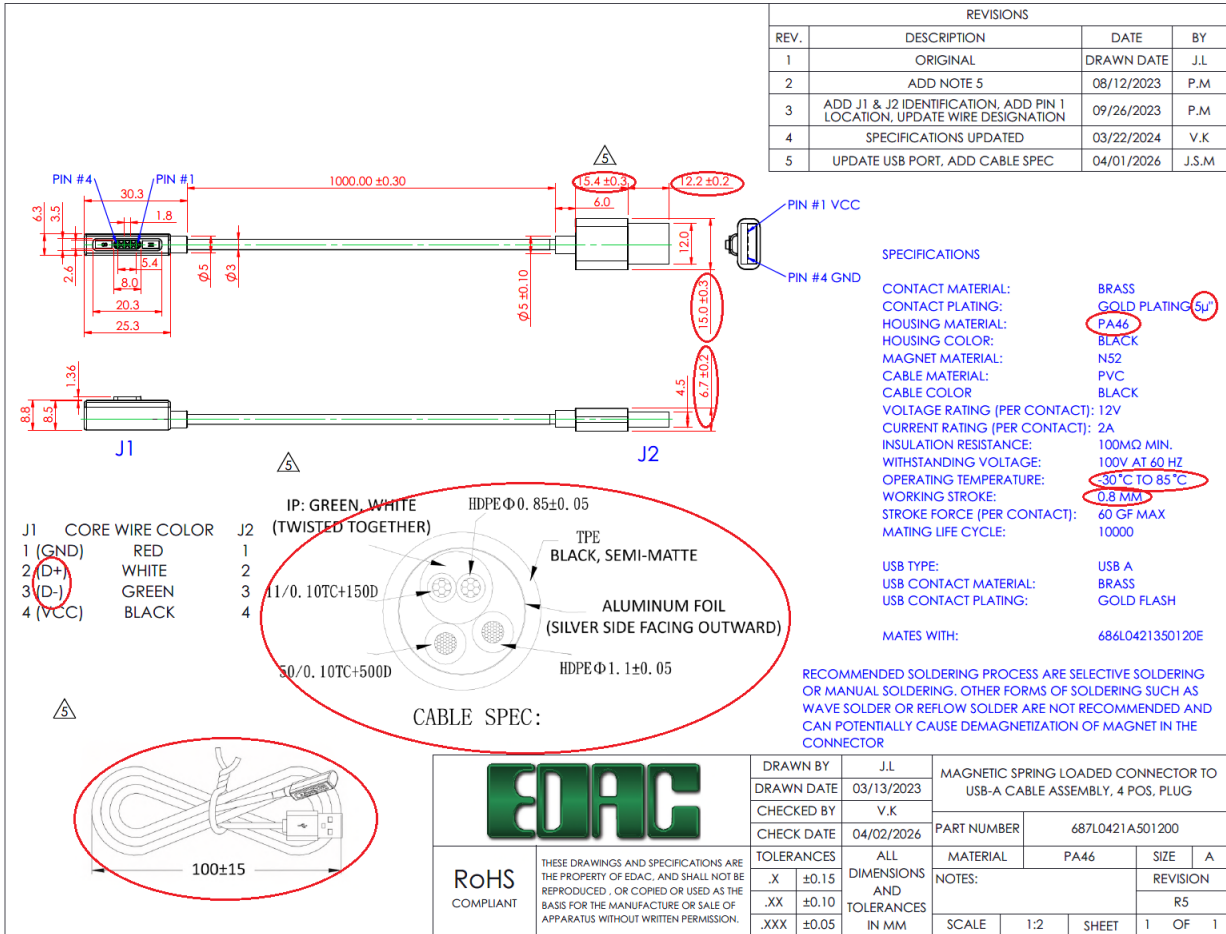
<input checked="" type="checkbox"/> <input type="checkbox"/> <b>General Manager</b>	<input checked="" type="checkbox"/> <input type="checkbox"/> <b>Quality Engineer</b>
<input checked="" type="checkbox"/> <input type="checkbox"/> <b>Engineering Manager</b>	<input checked="" type="checkbox"/> <input type="checkbox"/> <b>Engineer</b>
<input checked="" type="checkbox"/> <input type="checkbox"/> <b>Business Development Manager</b>	
<u>Ronnie Sta Monica</u> <u>Kobie Samuels</u> <i>K.S.</i> 5/26/26	<u>Wenyu Qin</u> <u>Jerico Sta. Monica</u>

**REJECTED**

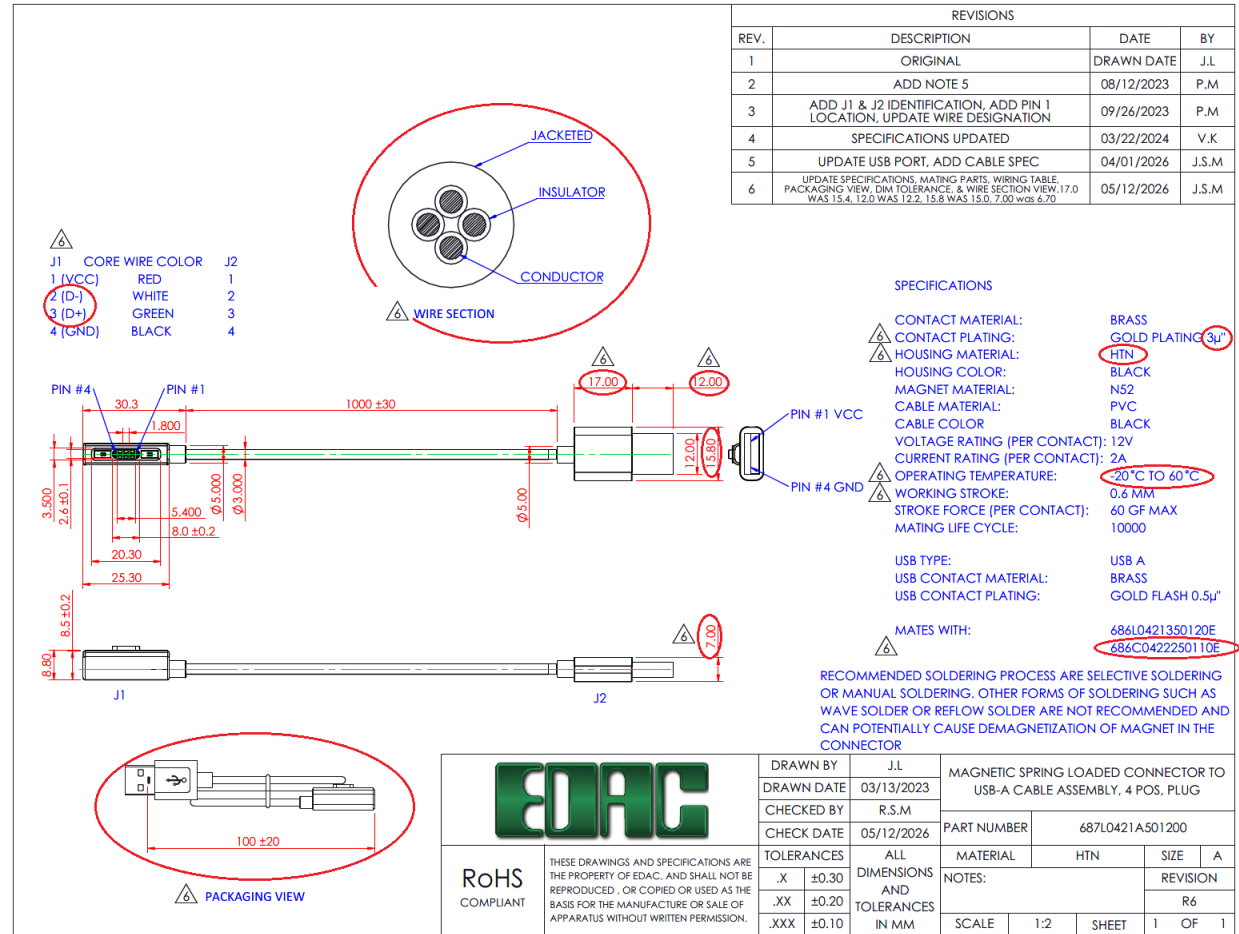
Change REJECTED by: \_\_\_\_\_

Rejected Date: \_\_\_\_\_

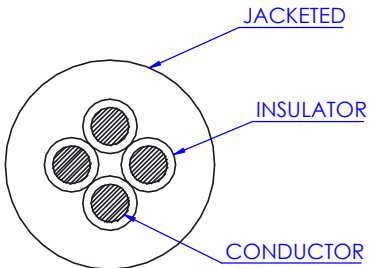
# R5



# R6

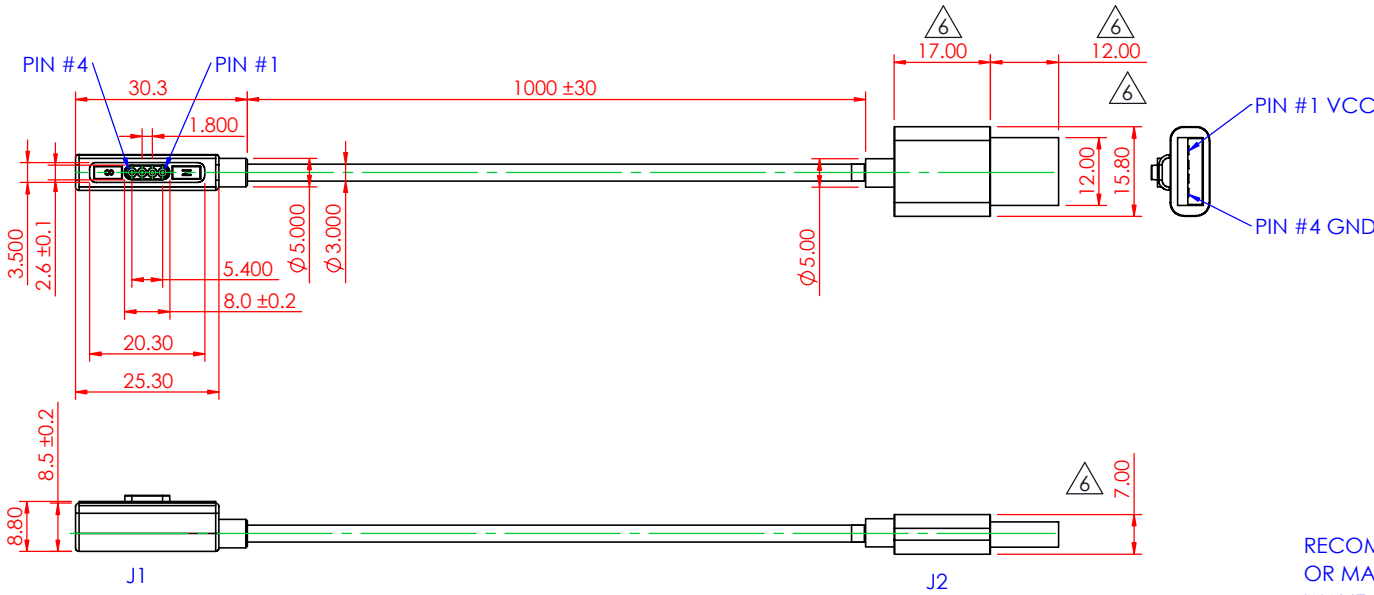


REVISIONS			
REV.	DESCRIPTION	DATE	BY
1	ORIGINAL	DRAWN DATE	J.L
2	ADD NOTE 5	08/12/2023	P.M
3	ADD J1 & J2 IDENTIFICATION, ADD PIN 1 LOCATION, UPDATE WIRE DESIGNATION	09/26/2023	P.M
4	SPECIFICATIONS UPDATED	03/22/2024	V.K
5	UPDATE USB PORT, ADD CABLE SPEC	04/01/2026	J.S.M
6	UPDATE SPECIFICATIONS, MATING PARTS, WIRING TABLE, PACKAGING VIEW, DIM TOLERANCE, & WIRE SECTION VIEW, 17.0 WAS 15.4, 12.0 WAS 12.2, 15.8 WAS 15.0, 7.00 WAS 6.70	05/12/2026	J.S.M



6 WIRE SECTION

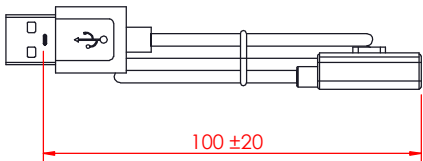
J1	CORE WIRE COLOR	J2
1 (VCC)	RED	1
2 (D-)	WHITE	2
3 (D+)	GREEN	3
4 (GND)	BLACK	4



SPECIFICATIONS

6 CONTACT MATERIAL:	BRASS
6 CONTACT PLATING:	GOLD PLATING 3µ"
6 HOUSING MATERIAL:	HTN
HOUSING COLOR:	BLACK
MAGNET MATERIAL:	N52
CABLE MATERIAL:	PVC
CABLE COLOR:	BLACK
VOLTAGE RATING (PER CONTACT):	12V
CURRENT RATING (PER CONTACT):	2A
6 OPERATING TEMPERATURE:	-20°C TO 60°C
6 WORKING STROKE:	0.6 MM
STROKE FORCE (PER CONTACT):	60 GF MAX
MATING LIFE CYCLE:	10000
USB TYPE:	USB A
USB CONTACT MATERIAL:	BRASS
USB CONTACT PLATING:	GOLD FLASH 0.5µ"
6 MATES WITH:	686L0421350120E 686C0422250110E

RECOMMENDED SOLDERING PROCESS ARE SELECTIVE SOLDERING OR MANUAL SOLDERING. OTHER FORMS OF SOLDERING SUCH AS WAVE SOLDER OR REFLOW SOLDER ARE NOT RECOMMENDED AND CAN POTENTIALLY CAUSE DEMAGNETIZATION OF MAGNET IN THE CONNECTOR



6 PACKAGING VIEW

	DRAWN BY	J.L	MAGNETIC SPRING LOADED CONNECTOR TO USB-A CABLE ASSEMBLY, 4 POS, PLUG				
	DRAWN DATE	03/13/2023					
	CHECKED BY	R.S.M	PART NUMBER	687L0421A501200			
	CHECK DATE	05/12/2026	MATERIAL	HTN	SIZE	A	
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			.X				±0.30
			.XX		±0.20	SCALE	1:2
.XXX	±0.10						