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ENGINEERING CHANGE NOTICE

Originator:	Wenyu Qin	Date:	Document Number
Phone No.	416-754-3322	January 21, 2026	20260121-00
Email Address:	<a href="mailto:wqin@edacgroup.net">wqin@edacgroup.net</a>	Revision Number	SHEET
Department	Quality	R4	1 of 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

Product Information Updates

DESCRIPTION OF CHANGE:

The part 687L0421A501200 has undergone the following update:  
 The product information was updated from "FEMALE" to "MALE". There are no issues related to form, fit, or function/performance.  
 The change can be found on pages 2, highlighted with a red circle.

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)

- Submit Quote \_\_\_\_\_
- Prod. Trial Run \_\_\_\_\_
- Run at Rate \_\_\_\_\_
- PPAP from Supplier \_\_\_\_\_
- MRD of Production Parts \_\_\_\_\_
- UL / CSA / RoHS / REACH \_\_\_\_\_

ACKNOWLEDGEMENT FOR ECN INITIATION: (OPTIONALS)

- Tooling Rep \_\_\_\_\_
- Mfg Eng Rep \_\_\_\_\_
- Production Rep \_\_\_\_\_
- Materials Rep \_\_\_\_\_
- Quality Rep Wenyu Qin
- Marketing Rep Marco Lamanna
- Facilities Rep \_\_\_\_\_
- Sales Rep. Esther Maroth
- Product Eng. Rep. \_\_\_\_\_
- Purchasing Rep \_\_\_\_\_

STATUS

APPROVED

CCS CHANGE REQUEST #

REJECTED

Change REJECTED by:

Rejected Date:

APPROVALS FOR ECN INITIATION (REQUIRED)

- General Manager** Bob Sakitkovski
  - Engineering Manager** Ronnie Sta Monica
  - Business Development Manager** Kobie Samuels
  - Quality Engineer** Wenyu Qin
  - Engineer** Vinesh Kamania
- K.S. 1-22-26*

R3

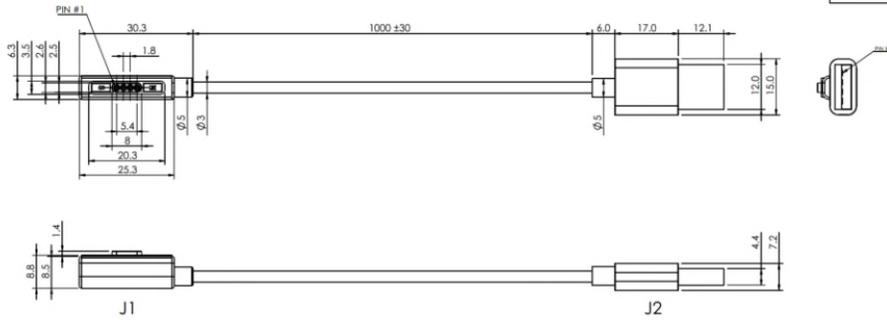
R4

TOLERANCE  
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SPECIFIED  
XX ±0.15

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ISSUE NUMBER	1
ORIGINAL	
ADD NOTE 5	
P.M. AUG. 13/2023	2
ADD J1 & J2 IDENTIFICATION ADD PIN #1 LOCATIONS UPDATE WIRES DESIGNATION	
P.M. SEP. 26/2023	3



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

SPECIFICATION:  
1- MATERIAL:  
CONTACT: BRASS GOLD FLASH PLATING ALL OVER NICKEL UNDERPLATING  
HOUSING : PA46, BLACK  
SPRING: SUS  
MAGNET: N52  
CABLE: PVC, OD 3.0  
2- ELECTRICAL:  
RATED VOLTAGE (PER CONTACT): 12V  
RATED CURRENT (PER CONTACT): 2A  
3- MECHANICAL LIFE: 10,000 CYCLES MIN.  
4- WORKING TEMPERATURE RANGE: -30°C→+85°C  
5- MATING WITH: 686L0421350120E

MAGNETIC SPRING LOADED CONNECTOR TO  
USB-A CABLE ASSEMBLY, 4 POS FEMALE

ACAD REFERENCE NO.:	687L0421A501200	UNIT: MM
DRAWN:	J.L.	DATE: 2023-09-27
CHECKED:	R.S.M	DATE: 2023-09-27
SCALE:	N.T.S.	SHEET 1 OF 1
DRAWING NUMBER:	687L0421A501200	ISSUE
PART NUMBER:	687L0421A501200	3



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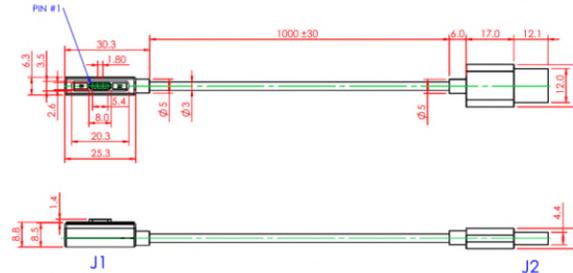
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ISSUE NUMBER	1
ORIGINAL	
ADD NOTE 5	
P.M. AUG. 13/2023	2
ADD J1 & J2 IDENTIFICATION ADD PIN #1 LOCATIONS UPDATE WIRES DESIGNATION	
P.M. SEP. 26/2023	3
SPECIFICATIONS UPDATED	
V.K. MAR. 22/2024	4



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

SPECIFICATIONS

CONTACT MATERIAL: BRASS  
CONTACT PLATING: GOLD PLATING 5µ  
HOUSING MATERIAL: PA46  
HOUSING COLOR: BLACK  
MAGNET MATERIAL: N52  
CABLE MATERIAL: PVC  
CABLE COLOR: BLACK  
VOLTAGE RATING (PER CONTACT): 12V  
CURRENT RATING (PER CONTACT): 2A  
INSULATION RESISTANCE: 100MQ MIN.  
WITHSTANDING VOLTAGE: 100V AT 60 HZ  
OPERATING TEMPERATURE: -30°C TO 85°C  
WORKING STROKE: 0.8 MM  
STROKE FORCE (PER CONTACT): 40 GF MAX  
MATING LIFE CYCLE: 10000  
USB TYPE: USB A  
USB CONTACT MATERIAL: BRASS  
USB CONTACT PLATING: GOLD FLASH  
MATES WITH: 686L0421350120E

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

MAGNETIC SPRING LOADED CONNECTOR TO  
USB-A CABLE ASSEMBLY, 4 POS MALE

ACAD REFERENCE NO.:	687L0421A501200	UNIT: MM
DRAWN:	J.L.	DATE: 3/13/2023
CHECKED:	R.S.M	DATE: 2026-01-15
SCALE:	0.75:1	SHEET 1 OF 1
DRAWING NUMBER:	687L0421A501200	ISSUE
PART NUMBER:	687L0421A501200	4



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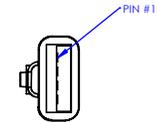
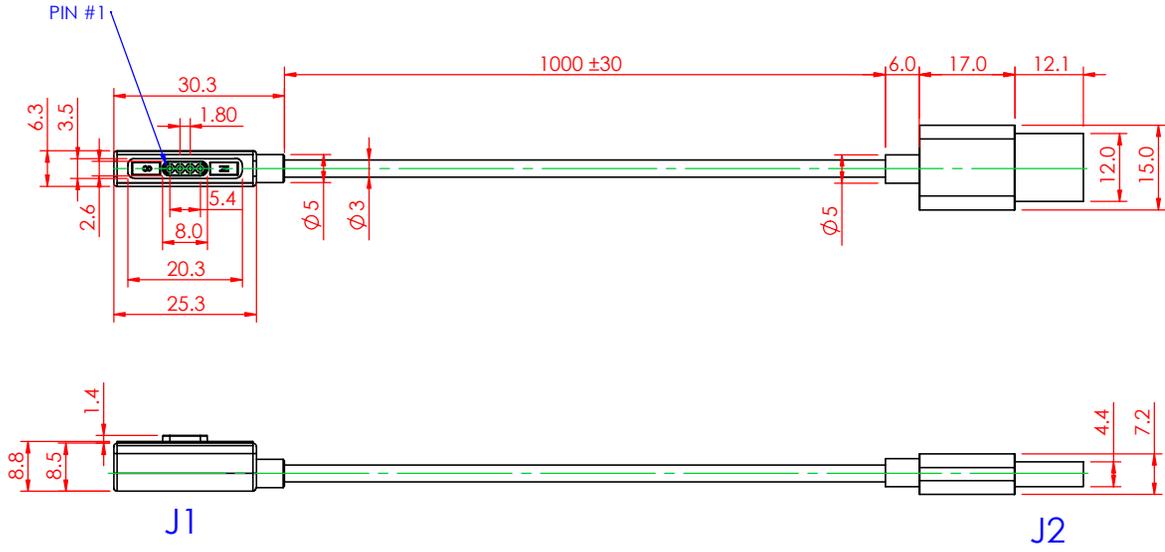
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P.M. SEP. 26/2023	③
SPECIFICATIONS UPDATED	
V.K. MAR. 22/2024	④



**SPECIFICATIONS**

CONTACT MATERIAL:	BRASS
CONTACT PLATING:	GOLD PLATING 5µ"
HOUSING MATERIAL:	PA46
HOUSING COLOR:	BLACK
MAGNET MATERIAL:	N52
CABLE MATERIAL:	PVC
CABLE COLOR:	BLACK
VOLTAGE RATING (PER CONTACT):	12V
CURRENT RATING (PER CONTACT):	2A
INSULATION RESISTANCE:	100MΩ MIN.
WITHSTANDING VOLTAGE:	100V AT 60 HZ
OPERATING TEMPERATURE:	-30 °C TO 85 °C
WORKING STROKE:	0.8 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

MATES WITH: 686L0421350120E

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

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**MAGNETIC SPRING LOADED CONNECTOR TO  
USB-A CABLE ASSEMBLY, 4 POS, MALE**

ACAD REFERENCE NO.:	687L0421A501200	UNIT: MM
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