

3. PRIMARY: Female DB9 Connector

Pins	Colour	Function
2	Violet	Primary RS422 Tx(+) / RS232 Tx
3	Yellow	Primary RS422 Rx(+) / RS232 Rx
5	White	Serial Ground
7	Yellow/Black Stripe	Primary RS422 Rx(-)
8	Violet/Black Stripe	Primary RS422 Tx(-)

4. AUXILIARY: Female DB9 Connector

Pins	Colour	Function
2	LT Blue	Secondary RS422 Tx(+) / RS232 Tx
3	LT Green	Secondary RS422 Rx(+) / RS232 Rx
5	White	Serial Ground
7	LT Green/Black Stripe	Secondary RS422 Rx(-)
8	LT Blue/Black Stripe	Secondary RS422 Tx(-)

5. CAN: Female DB9 Connector

Pins	Colour	Function
2	LT Brown	CAN L
6	White	Serial Ground
7	LT Brown/Black Stripe	CAN H

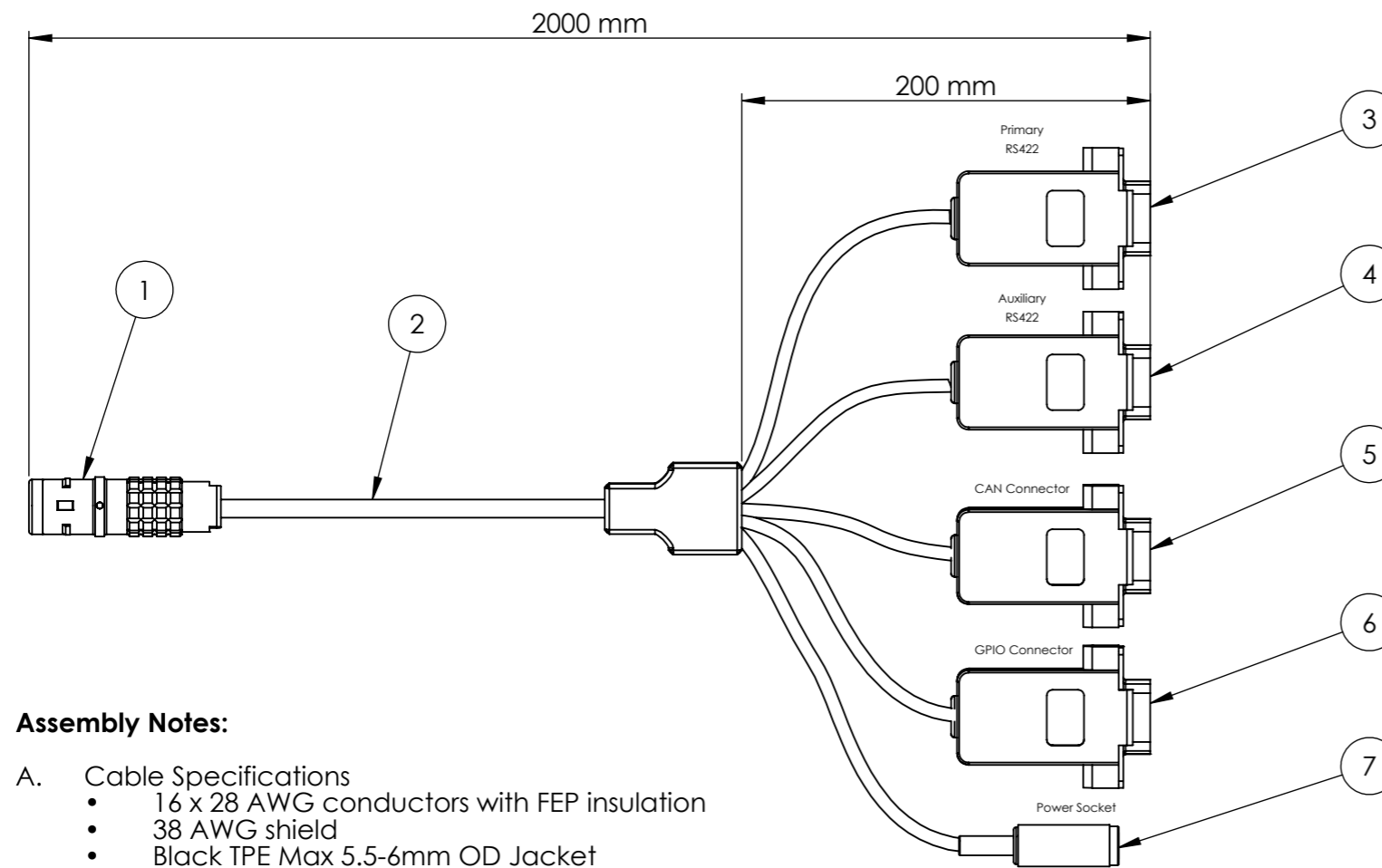
6. GPIO 1 & 2: Female DB9 Connector

Pins	Colour	Function
2	Blue	GPIO1
3	Brown	GPIO 2
5	Grey	GPIO Ground

7. Power Socket: 2.1 x 5.5 mm DC Socket

Pins	Colour	Function
Tip	Red	Power Supply
Ring	Black	Power Ground

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		NAME	DATE	ADVANCED NAVIGATION PTY LTD 37 PITT ST SYDNEY NSW 2000 TITLE: CERTUS 16-PIN BREAKOUT CABLE PART NUMBER: LEMO-16-CABLE-BREAKOUT SIZE A3 DWG. NO. CRTUS-CBLS-030-01 REV 1.0	
TOLERANCES: DECIMALS: .XX ± .010 .XXX ± .005 ANGULAR: ± 1		DRAWN	AH		05/12/19
		CHECKED	DR		05/12/19
		RELEASED	CS		05/12/19
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Assembly Notes:

- A. Cable Specifications
 - 16 x 28 AWG conductors with FEP insulation
 - 38 AWG shield
 - Black TPE Max 5.5-6mm OD Jacket
- B. DC Power Socket dimensions: 2.1 mm x 5.5 mm
- C. Given cable dimensions ± 10 mm
- D. Assembly Weight: 320g
- E. Temp Rating -40 to 85 C
- F. Minimum Bend Radius: 50 mm

1. Lemo 16 Pin Connector P/N: FGG.1K.316.CLAC60Z

Pins	Colour	Function
1	Black	Power Ground
2	Red	Power Supply
3	Violet	Primary RS422 Tx(+) / RS232 Tx
4	Violet/Black Stripe	Primary RS422 Tx(-)
5	Yellow	Primary RS422 Rx(+) / RS232 Rx
6	Yellow/Black Stripe	Primary RS422 Rx(-)
7	LT Brown	CAN L
8	LT Brown/Black Stripe	CAN H
9	Blue	GPIO 1
10	Grey	GPIO Ground
11	Brown	GPIO 2
12	LT Blue	Secondary RS422 Tx(+) / RS232 Tx
13	LT Blue/Black Stripe	Secondary RS422 Tx(-)
14	LT Green	Secondary RS422 Rx(+) / RS232 Rx
15	LT Green/Black Stripe	Secondary RS422 Rx(-)
16	White	Serial Ground
Shield	-	Cable Braided Shield

No.	Description
1	Double Alignment Key 16 Pin LEMO Connector P/N: FGG.1K.316.CLAC60Z
2	16 Core Cable
3	Dsub 9 pins Female Connector
4	Dsub 9 pins Female Connector
5	Dsub 9 pins Female Connector
6	Dsub 9 pins Female Connector
7	DC Power Socket