

Sensor cable

Sensor cable with angled or straight sensor connector. Suitable **only** for connecting with all Bota Systems' sensors of **Gen Zero**.

Suitable for the following products

- ▶ Serial Gen Zero
- ▶ EtherCAT Gen Zero



Configurations

Ordering number	Description
ACC-RJ45-M8-3M-ANGLE	3.0m sensor cable RJ45 to angled sensor connector. See Figure 1
ACC-RJ45-M8-5M-ANGLE	5.0m sensor cable RJ45 to angled sensor connector. See Figure 2
ACC-RJ45-M8-3M-STR	3.0m sensor cable RJ45 to straight sensor connector. See Figure 3

Technical specification

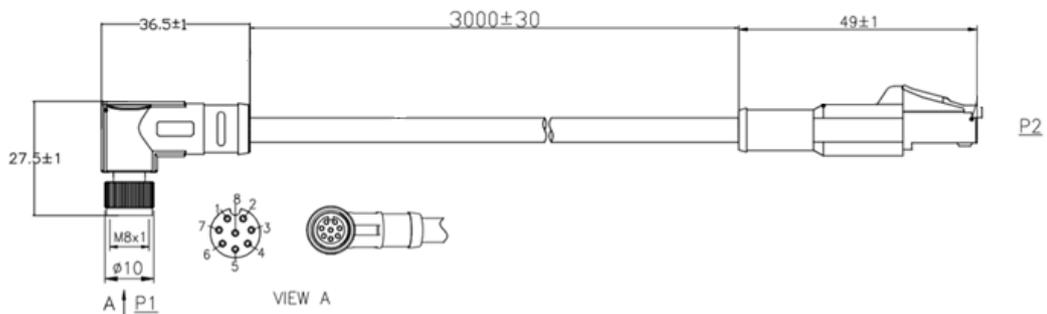


FIGURE 1

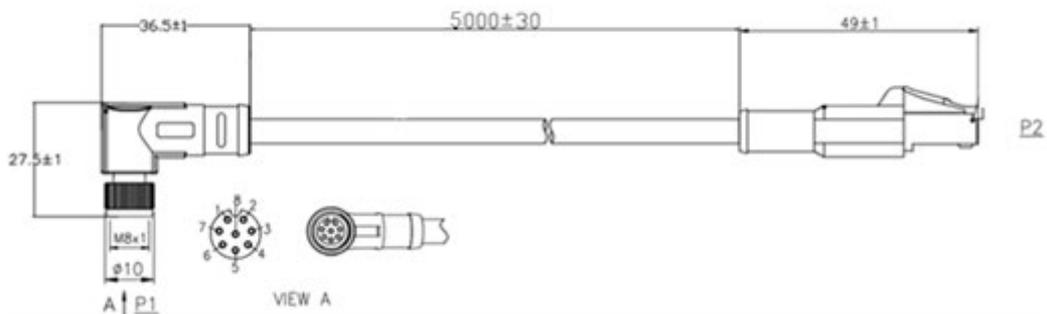


FIGURE 2

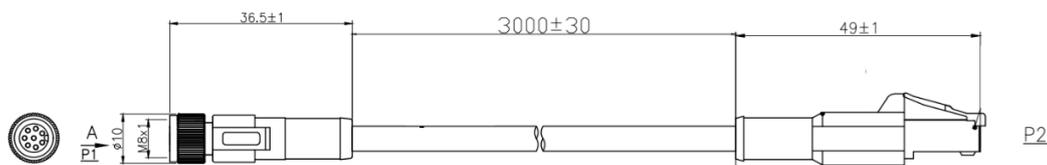


FIGURE 3

Serial Gen Zero Installation

For Serial sensors of generation Zero the cable can be used with [ACC-USB-PROG] USB to Serial adapter. The adapter provides power and communication with the sensor through a virtual serial port. The pinout of the cable for Serial sensors can be seen below.

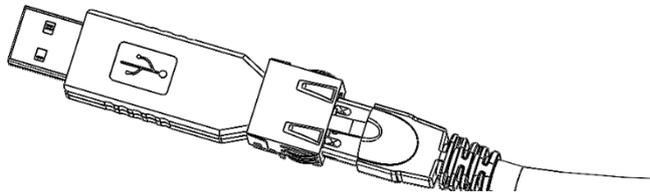
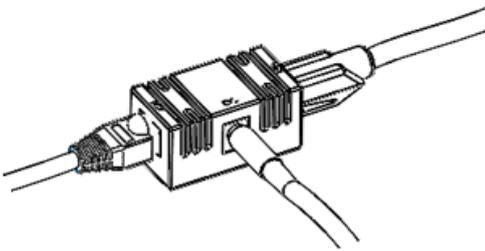


FIGURE 4

Wire colour	Sensor function	P1	P2
Orange/White	RS422 TX+	6	1
Orange	RS422 TX-	4	2
Green/White	RS422 RX+	5	3
Green	RS422 Rx-	8	6
Brown/White	5V	2	7
Brown	5V	3	8
Blue/White	GND	1	5
blue	GND	7	4
Braid wire	Shield	S	S

EtherCAT Gen Zero Installation

For EtherCAT sensors of generation Zero the cable can be used with [ACC-POE-B] EtherCAT power Injector and [ACC-SS-12V-12W-PSU] power supply. The pinout of the cable for EtherCAT sensors can be seen below.



Wire colour	Sensor function	P1	P2
Orange/White	EtherCAT TX+	6	1
Orange	EtherCAT TX-	4	2
Green/White	EtherCAT RX+	5	3
Green	EtherCAT Rx-	8	6
Brown/White	9-48V	2	7
Brown	5V	3	8
Blue/White	GND	1	5
blue	GND	7	4
Braid wire	Shield	S	S

Technical data

Property	Value		
Application		Materials	
Degree of protection	IP67	P1 connector nut	Brass nickel plated
Mechanical mating cycles	≥ 100	P1 female contacts	CuZn gold plated
Cable length	3m or 5m ±30mm	P1 overmolding	PVC
Cable diameter	6mm	P1 colour	black
Application	Ethernet 100 mbs	External sheath, material	PVC, black
Ambient temperature (operation)	-25 °C - 80 °C	Inner cores	HDPE
Static bending radius	60mm	P2 overmolding	PVC, black
Dynamic bending radius	100mm	Electrical	
P1 type	Female M8	Contact resistance	5 mOhm
P2 type	RJ45	Insulation resistance	100 MOhm
Certification		IEC standard	IPC-A-620
RoHS	Yes	Rated voltage	60V dc
CE	Yes	Rated current	1A
Class of pollution	3	P1 number of positions	8
Materials		P1 coding	D
P1 seal material	NBR	P1 Shielded	Yes
P1 connector shield pipe	CuZn nickel plated	Inner cores gauge	4 pairs 24 AWG