

## Cable accessories for the Jomitek LSA

The present datasheet serves as a combined listing of cable accessories relevant for the various implementation options for the Lightning Sensor & Analyzer, including optional supporting devices.

For the majority of these cables, they can be ordered with lengths specified in decimeters as part of the order ID.

For any new installation, it is strongly recommended to map out required lengths, and avoid excess cable that needs to be tied up, which will otherwise present an induction risk.

See the Lightning Sensor and Analyzer user manual on the subject of induction risks, for further reference.

Among the cable accessories, note that the offered magnetic fixture points with integrated cable ties may be convenient for cable routing, especially for pilot / trial installations.



The MAGNET-CABLE-TIE kit include 5 magnets, 43mm diameter, along with 5 cable ties, as illustrated.

## Illustration of connectivity needs



Power and Interface Box (PIB) connector view, left to right;

- C13 AC power connector
- IP67 RJ45 connector to the control network
- IP67 RJ45 connector to the LSA
- M12 8-pole connector for DC power and relay signal



Lightning Sensor & Analyzer (LSA), comes in two connector versions, placed centered at the bottom, either;

- M12 X-coded 8-pole Ethernet (default)
- IP67 RJ45 connector (legacy)



Cellular modem, featuring the following connectors behind the environmental seal;

- 1x DC power, 2-pole screw connector
- 2x RJ45 IP20 connectors

## Cable accessory listing

Product ID	Product name	Cable surface material	Screening	Temp. range	Lowest IP rating	Cable length	Used for	Open-ended
J71000038003	C13-AC-POWER	PVC	N/A	-25° to 70°	20	1m	PIB	Yes
J74000056xxx	M12-DC-POWER-RELAY	PUR	Single	-25° to 90°	20	Acc. to order	PIB	Yes
J70000048xxx	LSA-ETH-RJ45IP67-RJ45IP20	PUR	Double	-25° to 90°	20	Acc. to order	PIB, LSA, modem	No
J70000037xxx	LSA-ETH-RJ45IP67-RJ45IP67	PUR	Double	-25° to 90°	67	Acc. to order	PIB, LSA	No
J70000060xxx	LSA-ETH-M12-RJ45IP20	PUR	Single	-25° to 90°	20	Acc. to order	LSA, modem	No
J70000080xxx	LSA-ETH-M12-RJ45IP67	PUR	Double	-25° to 90°	67	Acc. to order	PIB, LSA	No
J71000064xxx	LSA-ETH-M12-M12	PUR	Double	-25° to 90°	67	Acc. to order	LSA	No
J75000063xxx	MODEM-DC-CABLE	PVC	N/A	-25° to 70°	20	Acc. to order	Modem	Yes
J73000036001	MAGNET-CABLE-TIE	N/A	N/A	-40° to 80°	N/A	N/A	Cable fixtures	N/A

Note that, while PUR is a UV hardened material, there is basically no rubber / plastics based cable coating that will survive long term in direct sunlight, without the risk of surface cracks. As such, encapsulation or other ways of providing shade should be part of installations meant to last the lifetime of a wind turbine. The offered cable conduit and LSA bracket is part of such a solution.

The term 'open-ended' indicate that there is no connector for the other end of the cable provided. Such cables are easier to route through small entryways and cable ducts, and are generally meant to be terminated in e.g. screw terminals, gas tight clamps, or similar.

The 'xxx' for most of the product IDs must be replaced with the requested cable length in decimeter, i.e. '050' for a 5m cable.

Please contact Jomitek for additional options for cable accessories.