Does a green solar container communication station need a signal line box

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Which power line communication options are implemented in different solar installations?
Figure 1 shows typical power line communication options implemented in different solar installations. These installations can be divided into communication on DC lines (red) and communication on AC lines (blue).

Why is wired communication important for Solar System monitoring & safety?
With the increased number of solar installations,importance of system monitoring and safety rises. In this trend,wired communications play a key role. Safety standardslike SunSpec® Rapid Shutdown (RSD) which support NEC 2014,NEC2017 and UL1741 module-level rapid shutdown are built on wired communication interface.

Which modulation scheme is used in power line communication?
There are different modulation schemes used in power line communication. In narrowband application On-Off-Keying (OOK),Frequency-Shift-Keying (FSK) and Orthogonal Frequency Division Multiplexing (OFDM) are the most common modulations,while in broadband PLC mainly OFDM is used.

What frequency bands are used for power line communication?
International standards and norms specify the frequency bands which can be used for power line communication. In general,there are two categories,narrowband - and broadband- PLC. Narrowband PLC uses carrier frequencies up to 500 kHz. Table 1 shows the available frequency bands for different regions.

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