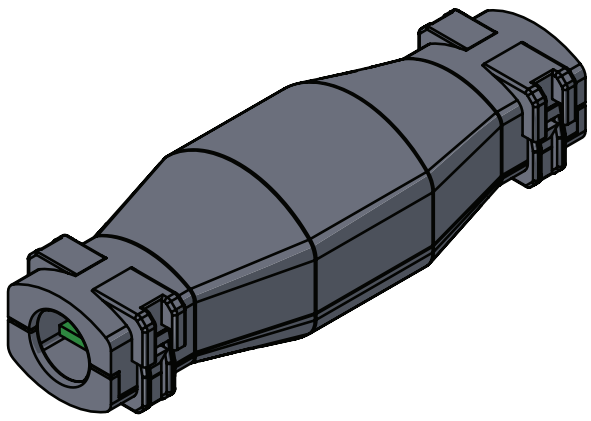
ABB solar inverters

Quick installation guide
DRM0-INTERFACE

EN



BCM.00373.0

1. Preliminary operations

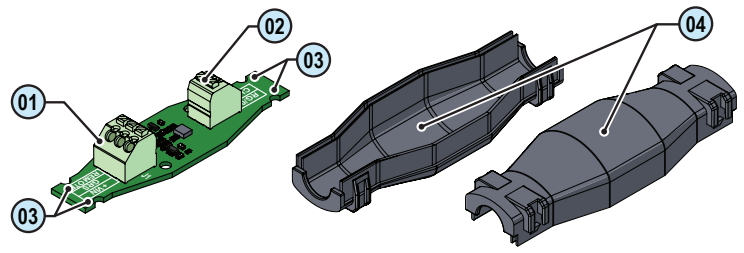
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
For safety reasons, only a qualified electrician who has received training and/or demonstrated skills and knowledge of the inverter's structure and operation may install this device in the inverter.

Before the DRM0-INTERFACE has been installed on the inverter, the REMOTE ON/OFF function of the inverter have to be enabled to allow at the DRM0-INTERFACE to power-off the inverter when it is needed: Refer to the User Manual of the related inverter to know how to enable the REMOTE ON/OFF function.

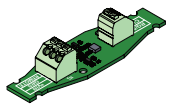
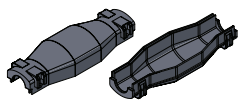
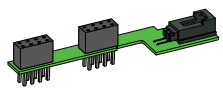
2. Main components

The main components of the DRM0-INTERFACE are shown in the figure and described in the following table:

Main components	
01	Inverter side connector
02	DRM0 side connector
03	Fixing eyelet
04	Enclosure



3. List of components supplied

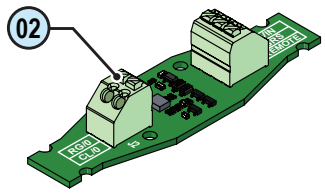
Available components*		Q.ty
	DRM0-INTERFACE board	1
	Plastic enclosure	1
	Adapter board	1
	Standoff	1
	Standoff screw	1

Available components*		Q.ty
	**Cable Model 1** Two-poles connectors Cable	1
	**Cable Model 2** 3-wires Cable	1
	**Cable Model 3** RJ45 connector Cable	1
	**Cable Model 4** PVS series cable	1
DRED Interface installed inside the inverter, DRM0 supported	DRM available label	1
	Cable tie	2
	Quick installation guide	1

*The content of the packaging may depend on the DRM0-INTERFACE kit related to the single inverter model.

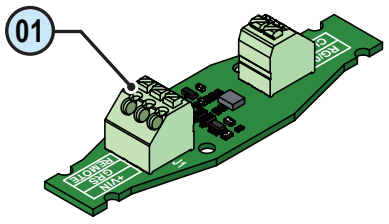
4. DRM0 side connection

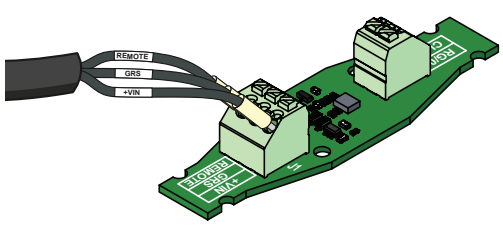
To connect the DRM0-INTERFACE to the distribution grid use the DRM0 side connector (02) located in the DRM0-INTERFACE board marked by "**J2**" silkscreen.



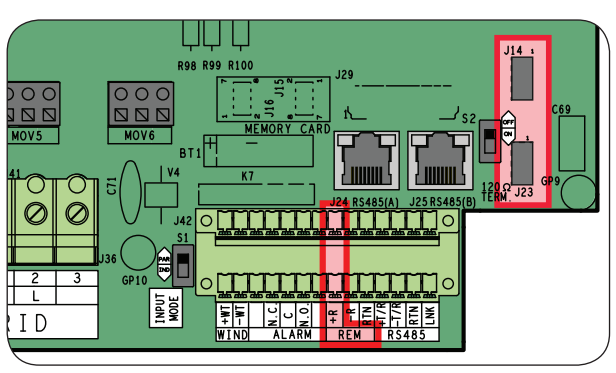
5.1 Inverter side connection

To connect the DRM0-INTERFACE to the inverter use the Inverter side connector (01) located in the DRM0-INTERFACE board marked by "**J1**" silkscreen.
Each cable type have three wires marked with the same name of terminal of the Inverter side connector (01) (marked in the board silkscreen).

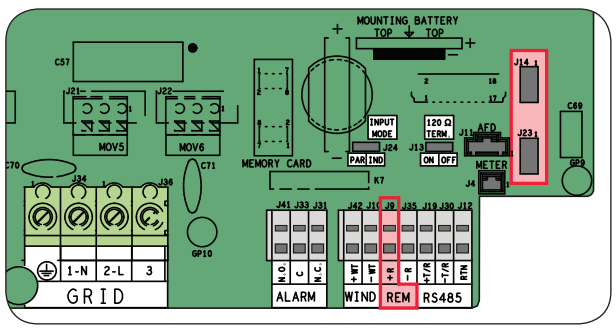




The terminal and the cable type (supplied) to be used to connect the DRM0-INTERFACE to the inverter depend on the model of inverter.
The list of the supported inverter models and the related connection procedures are shown below:

INVERTER MODEL	Cable to be used	Adapter board	Motherboard position and inverter terminals
PVI-3.0/3.6/4.2-TL-OUTD (Construction A)	Model 1	YES	

DRM0-INTERFACE	Inverter terminals
REMOTE	+R (J42)
two poles connector	two poles connector on adapter board

PVI-3.0/3.6/4.2-TL-OUTD (Construction B)	Model 1	YES	

DRM0-INTERFACE	Inverter terminals
REMOTE	+R (J9)
two poles connector	two poles connector on adapter board or on J4 METER connector (only if J4 connector is not already used by METER)

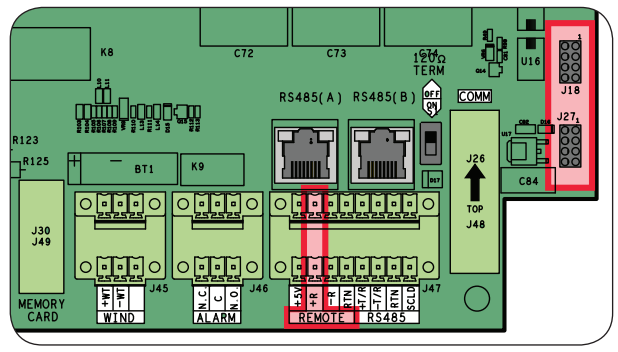
5.2 Inverter side connection

INVERTER MODEL	Cable to be used	Adapter board	Motherboard position and inverter terminals
PVI-5000/6000-TL-OUTD (Construction A)	Model 1	YES	

DRM0-INTERFACE	Inverter terminals
REMOTE	+R (J49)
two poles connector	two poles connector on adapter board

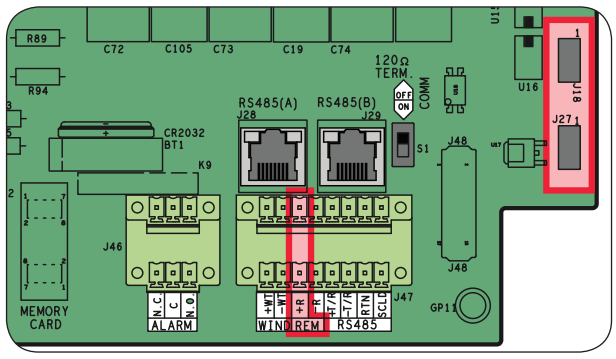
PVI-5000/6000-TL-OUTD (Construction B)	Model 1	YES	

DRM0-INTERFACE	Inverter terminals
REMOTE	+R (J31)
two poles connector	two poles connector on adapter board or on J19 METER connector (only if J19 connector is not already used by METER)

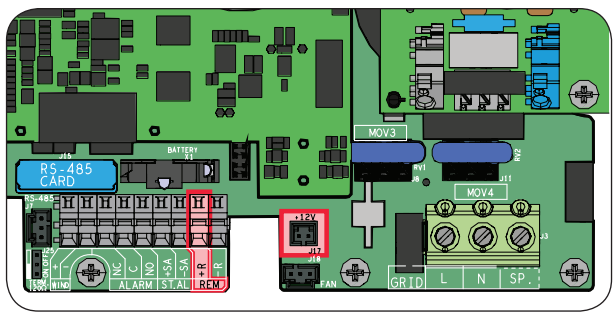
PVI-10.0/12.5-TL-OUTD (Construction A)	Model 1	YES	

DRM0-INTERFACE	Inverter terminals
REMOTE	+R (J47)
two poles connector	two poles connector on adapter board

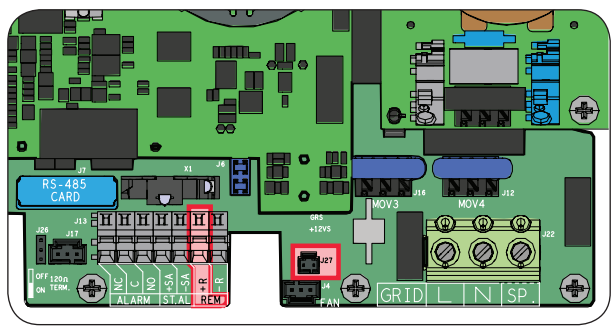
5.3 Inverter side connection

INVERTER MODEL	Cable to be used	Adapter board	Motherboard position and inverter terminals
PVI-10.0/12.5-TL-OUTD (Construction B)	Model 1	YES	

DRM0-INTERFACE	Inverter terminals
REMOTE	+R (J47)
two poles connector	two poles connector on adapter board

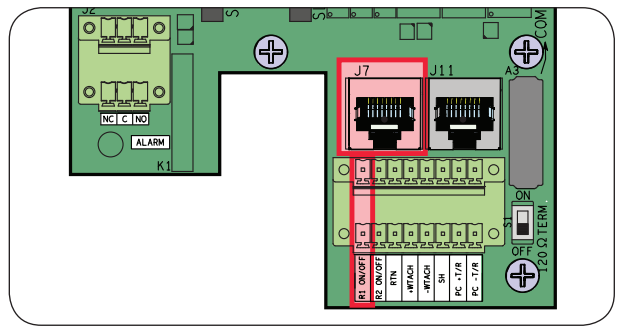
UNO-2.0/3.0-TL-OUTD	Model 1	NO	

DRM0-INTERFACE	Inverter terminals
REMOTE	+R (J2)
two poles connector	(J17) "+12V" two poles connector

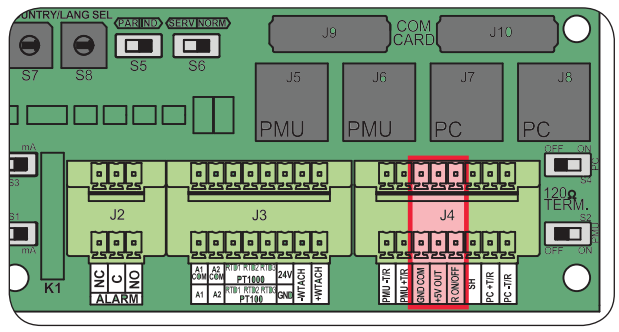
UNO-3.6/4.2-TL-OUTD	Model 1	NO	

DRM0-INTERFACE	Inverter terminals
REMOTE	+R (J13)
two poles connector	(J27) two poles connector

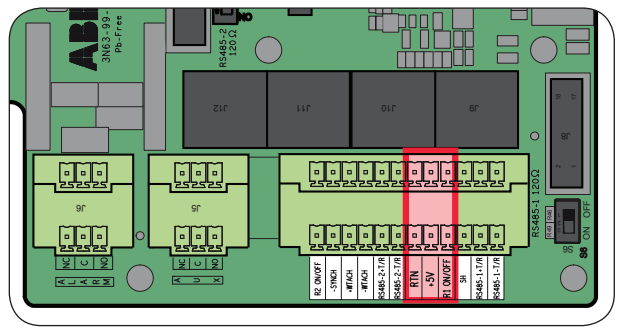
5.4 Inverter side connection

INVERTER MODEL	Cable to be used	Adapter board	Motherboard position and inverter terminals
TRIO-5.0/5.8/7.5/8.5-TL-OUTD	Model 3	NO	

DRM0-INTERFACE	Inverter terminals
REMOTE	R1 ON/OFF (J4)
RJ45 Connector	J7 (RJ45 Connector)

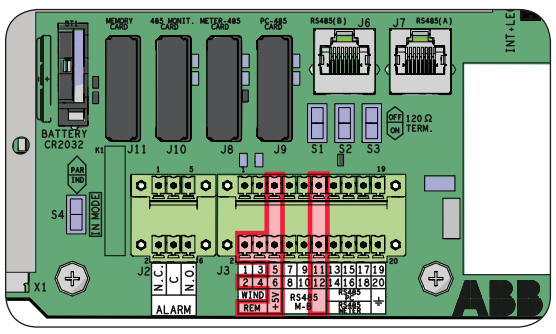
TRIO-20.0/27.6-TL-OUTD	Model 2	NO	

DRM0-INTERFACE	Inverter terminals
REMOTE	R ON/OFF (J4)
+VIN	+5VOUT (J4)
GRS	GND COM (J4)

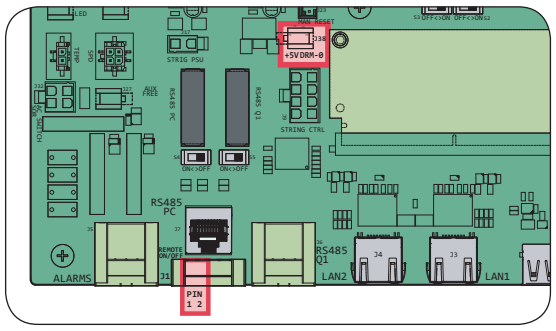
TRIO-50.0/60.0 TL/TM	Model 2	NO	

DRM0-INTERFACE	Inverter terminals
REMOTE	R1 ON/OFF (J7)
+VIN	+5V (J7)
GRS	RTN (J7)

5.5 Inverter side connection

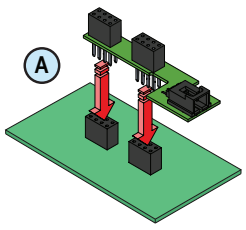
INVERTER MODEL	Cable to be used	Adapter board	Motherboard position and inverter terminals
REACT-UNO-4.6-TL-OUTD	Model 2	NO	

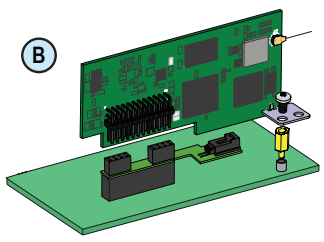
DRM0-INTERFACE	Inverter terminals
REMOTE	4 (J3)
+VIN	6 (J3)
GRS	12 (J3)

PVS-100/120-TL	Model 4	NO	

DRM0-INTERFACE	Inverter terminals
REMOTE	1 (J1 - REMOTE ON/OFF)
+VIN	J38 (two poles connector)
GRS	2 (J1 - REMOTE ON/OFF)

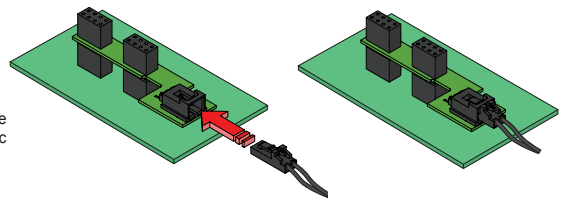
For the models that require the installation of the adapter board (refer to the previous table), see picture A.





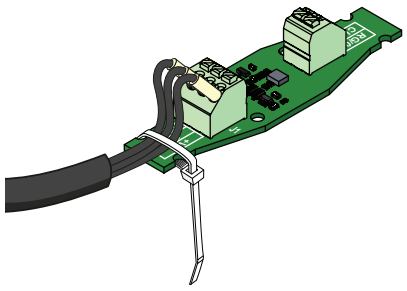
Note for installation on inverter equipped with WIFI LOGGER CARD (VSN300):
In this case it is necessary to install the standoff (supplied with the packaging) under the mechanical mounting bracket as shown in the picture B.

After the installation of the adapter board to the inverter it will be possible to connect the DRM0-INTERFACE to the adapter board using the specific connector of cable "Model 2":

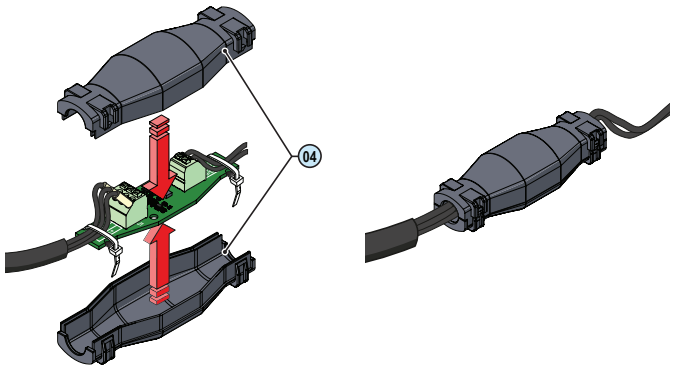


6. Final assembly and check

After the installation on the inverter board it will be possible to fix the wires on DRM0-INTERFACE board using the fixing eyelet (03) with the supplied cable tie on both sides:



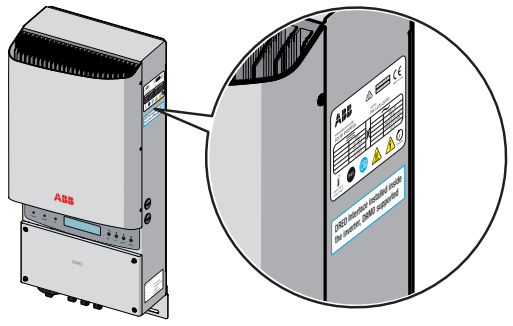
After the cable fixing, close the enclosure (04) to complete the DRM0-INTERFACE assembly:



After the assembly, make sure to put the DRM0-INTERFACE inside the inverter enclosure in a suitable position: The DRM0-INTERFACE device position cannot interfere with mobile parts of the inverter (fans, switch..) or dangerous electrical parts.

To check if the DRM0-INTERFACE works, switch on the inverter and disconnect the wire from DRED: in case of a correct installation the inverter should power-off.

At the end of installation phase, apply the supplied "DRM available label" near the Regulatory label of the inverter. The DRM available label shows which type of DRM is available for the inverter.



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