



Topic	Interface to Demand Response Enabling Device - DRED DRM 0 connection information				
Products	Eclipse Inverter Models: All 3000 kW to 5000 kW				
Bulletin No.	150720	Version	V2_0	Date	31/5/16


Background

AS/NZS AS4777.2-2015 calls up the capability for an Inverter to be connected to a Demand Response Enabling Device (DRED). The DRED device can control various power output modes of the Inverter including demanding disconnection from the grid.

Most installations of inverters of 5kW output or less do not have DRED devices at this stage.

Demand Response Mode - DRM 0

This bulletin covers connection details for DRM 0 mode **only**.

	<p>No DRED required</p> <p>If the installation does not have a DRED device, then no action is required. The DRM 0 connection pins should be left open circuit – no connections.</p>
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Before getting started

Plan and review:

- Location of the DRED device provided by the utility. Likely in the site switchboard.
- Connection and termination details at the DRED device
- Route for data cabling from the DRED device to the Eclipse Inverter

Ensure that you have the mating connector supplied for the DRED connection to the Eclipse Inverter and sufficient length of interconnecting cable.

Installing DRED connection

	<p>WARNING</p> <p>Installation and wiring of the DRED connection in the switchboard MUST ONLY be carried out by a suitably qualified and licensed electrician. Failure to install the DRED correctly could result in an electrical shock hazard leading to death or serious injury or potential fire risk.</p>
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1. Inverter Connector

Export Limit models of the Eclipse Inverter are supplied with a screw terminal connector for terminating the meter data cable at the Inverter. This connector is also used for the DRM 0 connection.

For all other models, a DRED connector will be required to be ordered from Mil-Systems.



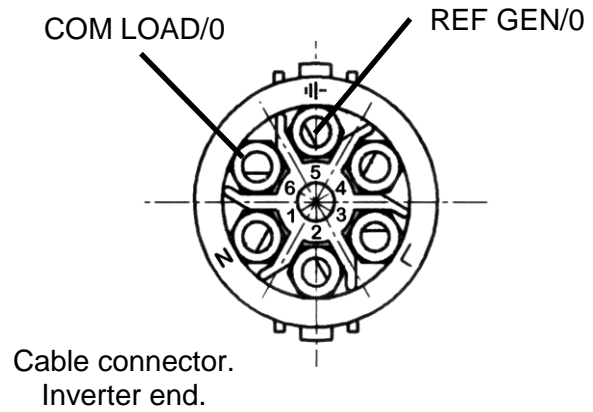
MS Part No. 5883



2. DRM 0 connection

DRM 0 mode is enabled via connections *RefGen* and *Com/DRM0* (Refer AS4777.2_2015)

DRM 0	Cable Connector
REF GEN/0	5
COM LOAD/0	6



CAUTION

The Data connection to the Inverter is SELV. Suitable insulated cable and/or protection must be provided where the cable is routed through the switchboard for connection to the DRED device.

Data Cable Specification

AS4777.2 specifies the following rating for the DRED connection:

TABLE 6

RJ45 SOCKET AND TERMINAL BLOCK SPECIFICATIONS

Property	Value	Symbol
Current rating	≥ 1.5	A
Voltage rating (V r.m.s.)	≥ 125	V
Dielectric strength (V r.m.s. 50 Hz, 1 min)	≥ 1000	V
Insulation resistance (MΩ min 500 V)	≥ 500	M Ω