



Cable Drawing
18-pin Cable P/N 30756

This cable is used in a protection switch setup, where it is desired to use an RS-232 monitor and control cable from the protection switch to the user's computer. This cable, part number 30756, is then used to connect the protection switch to an ODU – so two such cables are necessary in a protected setup.

Pin 1, 3: These two lines complete a circuit for a down-converter alarm generated by the ODU. The p.s. monitors a C-form relay in the ODU via these two lines. If no alarm the circuit is open.

Pins 5, 7: These two lines complete a circuit for an up-converter alarm generated by an ODU. The p.s. monitors a C-form relay in the ODU via these two lines. If no alarm, the circuit is normally closed.

Pin 7: A protection switch receives its DC power from the ODUs, pin 7 carries +13VDC to the p.s. from the ODU.

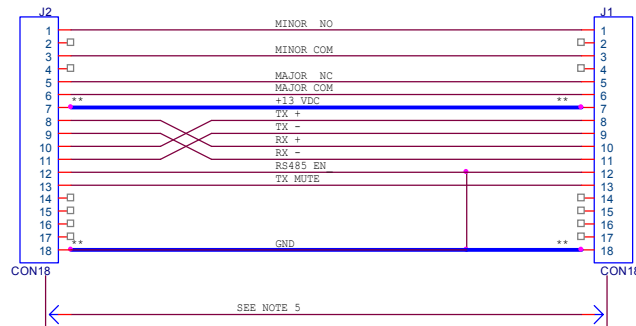
Pins 8, 9, 10, 11: If the user's computer communicates with the protection switch via RS-232, using a cable with part number 3104. The protection switch is then required to re-transmit these packets to the ODUs through a second serial port, using RS-485. The two ODUs are connected in parallel on this second port. Due to the retransmission feature being carried out, it is necessary that that RS-485 TX pins on the p.s. be routed to the RX lines on the ODUs, and the TX lines on the ODUs be routed to the RS-485 RX pins on the p.s. That is why a cross-over of these lines appears in the drawing below.

Pin 12: must be grounded for the 18-pin serial port on an ODU to operate in RS-485 mode instead of RS-232 mode.

Pin 13: When the protection switch is operating the TX baseball switch connected to it, it is necessary to mute the transmitters in both ODUs to avoid arcing in the switch. The mute line shown in the drawing below carries the mute request from the p.s. to the ODU.

NOTES :

- 1 CABLE IS 18 WIRES, 22 AWG WITH OVER ALL SHIELD.
SHIELD CONNECTED TO PIN 18 AT BOTH ENDS.
- 2 WIRES INDICATED AS: ** ARE FOUR (4) PARALLEL COMBINATION
- 3 CONNECTOR TYPE IS CONNALL 12292-1896-32, BOTH ENDS.
- 4 CABLE ASSEMBLY SHALL BE CONSTRUCTED TO BE WATER TIGHT.
- 5 CABLE TO BE IDENTIFIED BY PART NUMBER, DASH CABLE LENGTH (IN FEET)
USING UV RESISTANT INK AND MATERIALS.



ANACOM, INC.	
Title CABLE, 18 WIRE: ODU/PROTECTION SWITCH	
Size A	Document Number 30756
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