

What are my connectivity options for the 770x Switch Modules that terminate in DB-50 or DB-25?

The 7701 and 7709 switch cards have a 50-Pin Female D-Shell (DB-50) and 25-Pin Female D-Shell (DB-25) connectors. The 7707 have a 50-Pin Male D-Shell (DB-50) and 25-Pin Female D-Shell (DB-25) connectors. The 7703 and 7705 have two 50-Pin Female D-Shell (DB-50) connectors.

All these switch modules are shipped with mating insulation displacement connectors (IDC) for ribbon cable assembly. Additional quantities of these IDC connectors can be ordered on part number 7790. If you prefer solder cup version of these mating D-Shell connectors, they can be ordered on model 7789 for the 7701 and 7709 or the model 7788 for the 7703 and 7705 modules.

Keithley also offers cables on part numbers 7705-MTC-2 (a 50-Pin Male to Female DSUB Cable, 2m (6.6ft)) and a 7707-MTC-2 (a 25-Pin Male to Female DSUB cable 2m (6.6 ft).) These cables are provided to interface to custom devices.

In some applications, users may want to interface the switch module to an external screw terminal panel for ease of connectivity and test. Keithley does not offer these accessories as the voltage ratings of the switch modules exceed those of the commonly available screw terminal accessories.

If your application will see lower voltages, e.g., less than 150 V, then a screw terminal panel may be appropriate. Phoenix Contact Inc. (www.phoenixcon.com) provides a line of screw terminal adapters with DB-50 and DB-25 compatible connectors in their VARIOFACE line. The family part numbers for the four adapter styles are FLK-D...SUB, FLKM-D...SUB, FLKMS-D...SUB, and FLKM-D...SUB. The female version of these adapters are UL rated for 150 V @ 2.5A for a 12-30 AWG wire.

You can reach Phoenix Contact Inc. at (717)944-1300 or by web at www.phoenixcon.com for complete product specifications and technical support when using the their adapters in your application.

Below is a summary table with Keithley part numbers:

	7701, 7709	7707	7703,7705	
Termination	DB50 (male) DB25 (female)	DB50 (male) DB25 (female)	Two DB50 (female)	
Mating IDC connector kit	7790	7790	7790	Supplied with purchase of module
Mating Solder Cup connector kit	7789	none	7788	
Cable	7705-MTC-2 (DB50)	7705-MTC-2 (DB50)	7705-MTC-2 (one cable per connector)	
	7707-MTC-2 (DB25)	7707-MTC-2 (DB25)		