

Protocols and Cable Diagrams

DirectLogic CPUs provide many different communication port possibilities, therefore, it is helpful to know exactly which programming cable and protocol is required.

Family	CPU (or other device)	Port	Cable	Supported Protocols			
				<i>Direct</i> NET	K-Sequence	E-COM	MODBUS
<i>Direct</i> LOGIC™ DL05	DL05 (all versions)	Port 1	D2-DSCBL	•	•		•
		Port 2	D2-DSCBL	•	•		•
<i>Direct</i> LOGIC™ DL06	DL06 (all versions)	Port 1	D2-DSCBL	•	•		•
		Port 2	D2-DSCBL-1	•	•		•
<i>Direct</i> LOGIC™ DL105	DL105 (all versions)	Only one	D2-DSCBL		•		
<i>Direct</i> LOGIC™ DL205	DL230	Only one	D2-DSCBL		•		
	DL240	Top port	D2-DSCBL		•		
		Bottom port	D2-DSCBL	•	•		
	DL250-1	Top port	D2-DSCBL	•	•		•
		Bottom port	D2-DSCBL-1	•	•		•
	DL260	Top port	D2-DSCBL	•	•		•
		Bottom port	D2-DSCBL-1	•	•		•
	D2-DCM (module)	Only one	D3-DSCBL-2	•	•		•
H2-ECOM (module)	Only one		•	•	•		
<i>Direct</i> LOGIC™ DL305	DL330/DL330P	Requires DCU*	D3-DSCBL-2	•			
	DL340	Top port	D3-DSCBL-1	•			
		Bottom port	D3-DSCBL-1	•			•
	D3-DCM (module)	Only one	D3-DSCBL-2	•	•		•
	D3-350	Port 1	D2-DSCBL	•	•		•
Port 2		D3-DSCBL-2	•	•		•	
<i>Direct</i> LOGIC™ DL405	DL430, DL440	Top port (15-pin)	D4-DSCBL		•		
		Bottom port (25-pin)	D3-DSCBL-2	•	•		
	DL450	Phone Jack	D2-DSCBL	•	•		
		Top port (15-pin)	D4-DSCBL		•		
		Bottom port RS232	D3-DSCBL-2	•	•		•
		Bottom port RS422		•	•		•
	D4-DCM (module)	Only one	D3-DSCBL-2	•	•		•
	H4-ECOM (module)	Only one		•	•	•	
Slice I/O Modules	Only one	D4-DSCBL		•			

* — requires RS232 Data Communications Unit (D3-232-DCU)

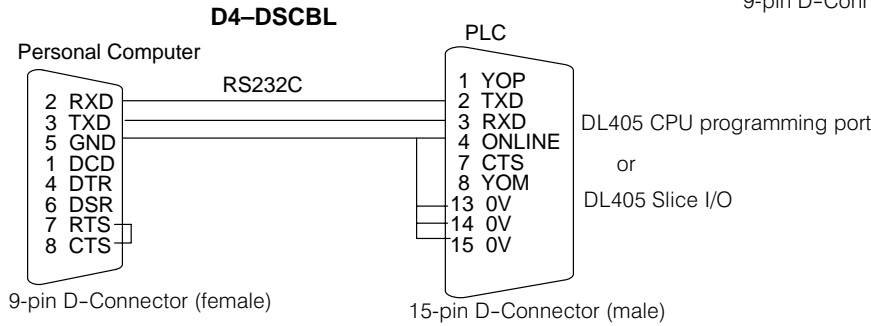
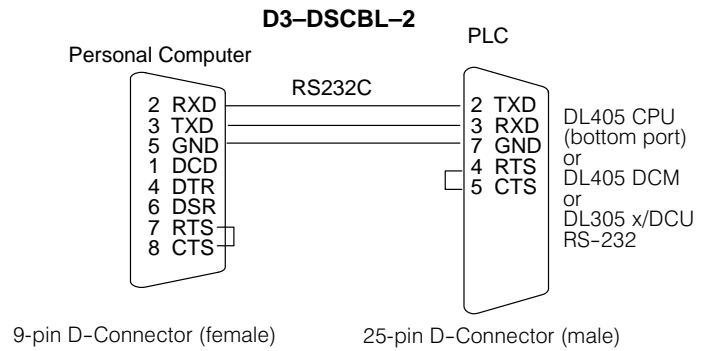
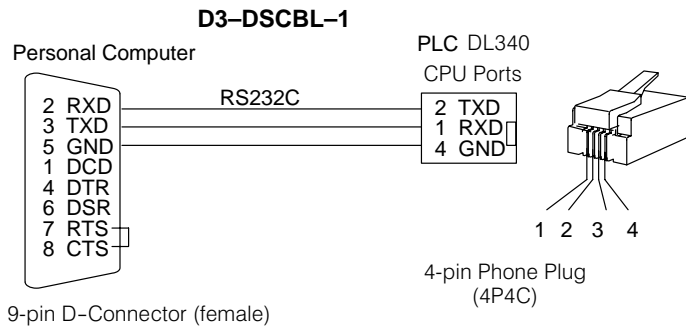
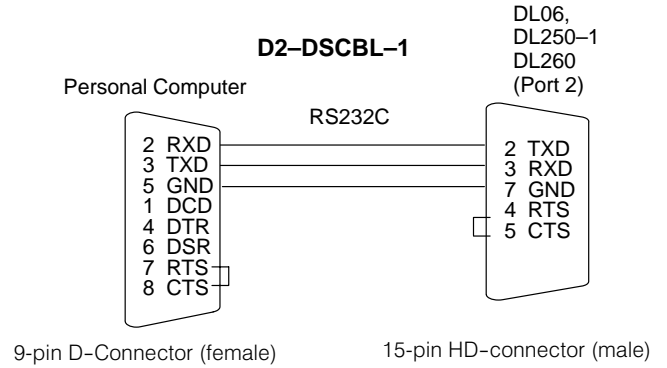
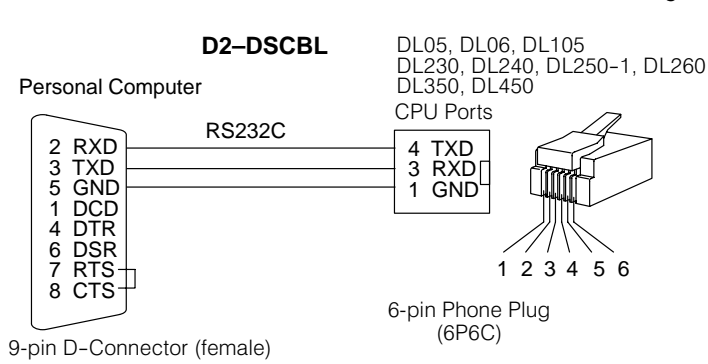
Programming Cables and Protocols(continued)

Family	CPU (or other device)	Port	Cable	Supported Protocols			
				DirectNET	K-Sequence	E-COM	MODBUS
GE® Series 1	IC610CPU105/106	Requires DCU*	D3-DSCBL-2	•			
TI305™ / SIMATIC® TI305™	325-07, PPX:325-07	Requires DCU*	D3-DSCBL-2	•			
	330-37, PPX:330-37	Requires DCU*	D3-DSCBL-2	•			
	325S-07 (or 325 w/ Stage Kt)	Requires DCU*	D3-DSCBL-2	•			
	330S-37, PPX:330S-37	Requires DCU*	D3-DSCBL-2	•			
	335-37, PPX:335-37	Phone Jacks	D3-DSCBL-1	•			
		If DCU is used*	D3-DSCBL-2	•			
TI405™ / SIMATIC® TI405™	425-CPU, PPX:425-CPU	Only one	D4-DSCBL		•		
	N/A, PPX:430-CPU	Top port (15-pin)	D4-DSCBL		•		
		Bottom port (25-pin)	D3-DSCBL-2	•	•		
	435-CPU, PPX:435-CPU	Top port (15-pin)	D4-DSCBL			•	
		Bottom port (25-pin)	D3-DSCBL-2	•	•		
Smart Slice™ I/O	Only one	D4-DSCBL			•		

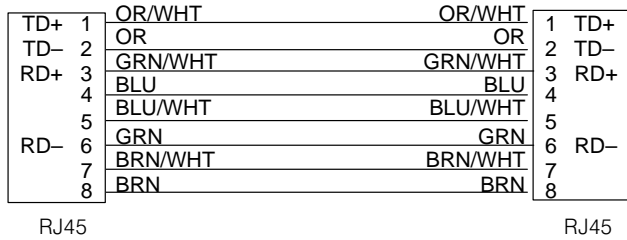
* — requires RS232 Data Communications Unit (D3-232-DCU)

Programming Cable Diagrams

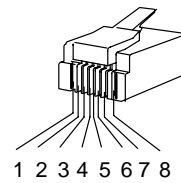
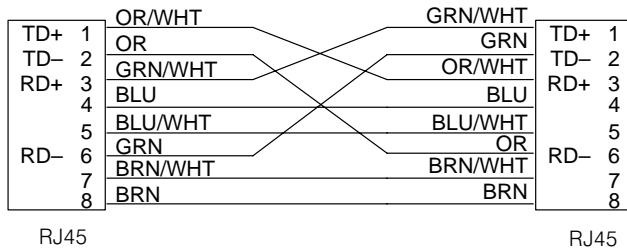
Pin labeling conforms to IBM DTE and DCE standards



Straight-through Cable



Crossover Cable



8-pin RJ45 Connector (8P8C)

All Ethernet and Ecom patch cables should be Category 5, UTP Cable. The diagram illustrates the appropriate wire position in the RJ45 connector.