

Computerwise RS-232 Cables

Introduction

Many of the Computerwise data terminals, TNET network modules, and other products have a serial RS-232 port used for interconnection to other devices. These products, as well as the devices they connect to, include different connectors (DB9 or DB25), gender (male or female), and configuration (DTE or DCE). Computerwise can supply quality molded RS-232 cables designed to connect of these devices together for most standard applications. This application note is designed to help the system installer understand which RS-232 cable to use for a given product application.

Overview

Most RS-232 cables are either a “modem” cable or a “null modem” cable. A “modem” cable is normally used to connect a DTE (terminal or computer) device to a DCE (modem) device. Generally, a “null modem” cable is used to connect two DTE devices together in a “back to back” configuration. The Computerwise RS-232 cables fall into one of these two (2) categories.

Application Summary

The following table shows some example applications and which Computerwise RS-232 cables should be used. The left column shows a Computerwise terminal or data collection product and the 2nd column shows which cable is required for connection to the device in the last column.

Product Name	Cable P/N	Cable Type	Connected To
EP210, ED210	911122	DB9F-DB9F Null	DB9M Computer
ET214, ET215	911122	DB9F-DB9F Null	DB9M Computer
TT4E, TT5E, TT6E	911122	DB9F-DB9F Null	DB9M Computer
TT5B, TT6B, TT9B	911127	DB25M-DB9F Null	DB9M Computer
EC305, TT7, TT8 PDS	911122	DB9F-DB9F Null	DB9M Computer
	911123	DB9F-DB9M Modem	DB9F Modem
TTClock	911127	DB25M-DB9F Null	DB9M Computer
	911124	DB25M-DB25F Modem	DB9F Modem
TIM1B, TLD3, SD1	911125	DB25M-DB9F Modem	DB9M Computer
	911124	DB25M-DB25F Modem	DB25M Computer
TIM2B	911125	DB25M-DB9F Modem	DB9M TT8/PDS/Computer
	911124	DB25M-DB25F Modem	DB25M Terminal/Computer

Cable Definitions

The Computerwise RS-232 cables is defined by the following tables. Each table includes the pin out and the typical RS-232 signal name.

P/N 911122 & 911122B - DB9F/DB9F Null Modem Cable

DB9F	DB9F - 911122	DB9F - 911122B	Signal	Color (typical)
1	7,8	4	DCD/RTS & CTS	Brown
2	3	3	RD/TD	Red
3	2	2	TD/RD	Orange
4	6	1,6	DTR/DSR	Yellow
5	5	5	GND	Green
6	4	4	DSR/DTR	Blue
7	1	8	RTS/DCD	Purple
8	1	7	CTS/DCD	Gray
9	NC	NC	RI	Black

P/N 911123 - DB9M/DB9F Modem Cable

DB9M	DB9F	Signal	Color (typical)
1	1	DCD	Brown
2	2	RD	Red
3	3	TD	Orange
4	4	DTR	Yellow
5	5	GND	Green
6	6	DSR	Blue
7	7	RTS	Purple
8	8	CTS	Gray
9	9	RI	Black

P/N 911124 - DB25M/DB25F Modem Cable

DB25M	DB25F	Signal	Color (typical)
1	1	SG	
2	2	TD	
3	3	RD	
4	4	RTS	
5	5	CTS	
6	6	DSR	
7	7	GND	
8	8	DCD	
20	20	DTR	
22	22	RI	

P/N 911125 - DB9F/DB25M Modem Cable

DB9F	DB25M	Signal	Color (typical)
1	8	DCD	Brown
2	3	RD	Red
3	2	TD	Orange
4	20	DTR	Yellow
5	7	GND	Green
6	6	DSR	Blue
7	4	RTS	Purple
8	5	CTS	Gray
9	22	RI	Black

P/N 911126 - DB9M/DB25M Modem Cable

DB9M	DB25M	Signal	Color (typical)
1	8	DCD	Brown
2	3	RD	Red
3	2	TD	Orange
4	20	DTR	Yellow
5	7	GND	Green
6	6	DSR	Blue
7	4	RTS	Purple
8	5	CTS	Gray
9	22	RI	Black

P/N 911127 - DB9F/DB25M Null Modem Cable

DB9F	DB25M	Signal	Color (typical)
1	4 & 5	DCD/RTS & CTS	Brown
2	2	RD/TD	Red
3	3	TD/RD	Orange
4	6	DTR/DSR	Yellow
5	7	GND	Green
6	20	DSR/DTR	Blue
7	8	RTS/DCD	Purple
8	8	CTS/DCD	Gray
9	22	RI	Black