

# Communication Cables

The tables list runtime communication cables for PanelView Plus 6 (400, 600, 700, 1000, 1250, 1500) terminals. The PanelView Plus 6 Compact terminals use the same cables as the PanelView Plus 6 - 400 and 600 terminals.

All PanelView Plus 6 terminals use a standard Ethernet cable for application transfers between a computer and the terminal.

## Communication Cables: PanelView Plus 6 Terminals to PLC-5® Controllers

|                                         | PLC-5, PLC-5C, PLC-5E                                                                   | PLC-5, PLC-5C, PLC-5E                                                            | PLC-5E                                           | PLC-5C                                                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------|
|                                         | Port: CH0 - 25-pin RS-232<br>Protocol: DF1                                              | Port: CH1/CH2 DH+<br>Protocol: DH+                                               | Port: CH2 Ethernet RJ45<br>Protocol: EtherNet/IP | Port: ControlNet Port<br>Protocol: ControlNet                          |
| PanelView Plus 6 Compact 400, 600, 1000 | 2711-NC13 (5 m/16 ft) or 2711-NC14 (10 m/32 ft) cable<br>(Requires DB9 to DB25 adapter) | -                                                                                | 1585J-M type cable or 2711P-CBL-EX04 (4 m/14 ft) | -                                                                      |
| PanelView Plus 6 400, 600               |                                                                                         | -                                                                                |                                                  | -                                                                      |
| PanelView Plus 6 700, 1000, 1250, 1500  |                                                                                         | Requires 2711P-RN6 or 2711P-RN6K module, with shielded twinaxial cable (1770-CD) |                                                  | Requires 2711P-RN15S or 2711P-RN15SK module, and 1786 ControlNet media |

## Communication Cables: PanelView Plus 6 Terminals to SLC Controllers

|                                         | SLC 5/01, 5/02, 5/03                                                                         | SLC 5/03, 5/04, 5/05                                                 | SLC 5/04                                                                         | SLC 5/05                                             |
|-----------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------|
|                                         | Port: CH1 - RJ45<br>Protocol: DH-485                                                         | Port: CH0 - 9-pin RS-232<br>Protocol: DF1 or DH-485 (point-to-point) | Port: CH1<br>Protocol: DH+                                                       | Port: CH1 - Ethernet - RJ45<br>Protocol: EtherNet/IP |
| PanelView Plus 6 Compact 400, 600, 1000 | Requires 1761-NET-AIC module, and 2711-NC13 (5 m/16 ft) or 2711-NC14 (10 m/32 ft) cable      | 2711-NC13 (5 m/16 ft)<br>2711-NC14 (10 m/32 ft)                      | -                                                                                | 1585J-M type cable or 2711P-CBL-EX04 (4 m/14 ft)     |
| PanelView Plus 6 400, 600               |                                                                                              |                                                                      | -                                                                                |                                                      |
| PanelView Plus 6 700, 1000, 1250, 1500  | Requires 2711P-RN6 module, with 1761-CBL-AS03 (3 m/10 ft) or 1761-CBL-AS09 (9 m/30 ft) cable |                                                                      | Requires 2711P-RN6 or 2711P-RN6K module, with shielded twinaxial cable (1770-CD) |                                                      |

## Communication Cables: PanelView Plus 6 Terminals to MicroLogix Controllers

|                                         | MicroLogix 1400, 1500LRP                                                             | MicroLogix 1000, 1100, 1200, 1400, 1500LSP                             | MicroLogix 1100, 1400                            |
|-----------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------|
|                                         | Port: CH1/CH2 - 9-pin RS-232<br>Protocol: DF1 or DH-485 (point-to-point)             | Port: CH0 - 8-pin Mini-DIN<br>Protocol: DF1 or DH-485 (point-to-point) | Port: Ethernet - RJ45<br>Protocol: EtherNet/IP   |
| PanelView Plus 6 Compact 400, 600, 1000 | 2711-NC13 (5 m/16 ft) or 2711-NC14 (10 m/32 ft) cable (Requires DB9 to DB25 adapter) | 2711-NC21 (5 m/16 ft) or 2711-NC22 (15 m/49 ft)                        | 1585J-M type cable or 2711P-CBL-EX04 (4 m/14 ft) |
| PanelView Plus 6 400, 600               |                                                                                      |                                                                        |                                                  |
| PanelView Plus 6 700, 1000, 1250, 1500  |                                                                                      |                                                                        |                                                  |

## Communication Cables: PanelView Plus 6 Terminals to CompactLogix Controllers

|                                         | CompactLogix                                                         | CompactLogix L35E, L23E, L32E, 1768-ENBT         | CompactLogix L35CR, L32C, 1768-CNB, 1768-CNBR |
|-----------------------------------------|----------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------|
|                                         | Port: CH0 - 9-pin RS-232<br>Protocol: DF1 or DH-485 (point-to-point) | Port: Ethernet - RJ45<br>Protocol: EtherNet/IP   | Port: ControlNet Port<br>Protocol: ControlNet |
| PanelView Plus 6 Compact 400, 600, 1000 | 2711-NC13 (5 m/16 ft)<br>2711-NC14 (10 m/32 ft)                      | 1585J-M type cable or 2711P-CBL-EX04 (4 m/14 ft) | 1786 ControlNet media                         |
| PanelView Plus 6 400, 600               |                                                                      |                                                  |                                               |
| PanelView Plus 6 700, 1000, 1250, 1500  |                                                                      |                                                  |                                               |

## Communication Cables

The tables list runtime communication cables for PanelView Plus 7 Standard (400W, 600, 700, 900W, 1000, 1200W, 1500) terminals.

All PanelView Plus 7 terminals use a standard Ethernet cable for application transfers between a computer and the terminal.

### Communication Cables: PanelView Plus 7 Standard Terminals to PLC-5® Controllers

|                                                            |                                                  |
|------------------------------------------------------------|--------------------------------------------------|
| PanelView Plus 7 (400W, 600, 700, 900W, 1000, 1200W, 1500) | PLC-5E                                           |
|                                                            | Port: CH2 Ethernet RJ45<br>Protocol: EtherNet/IP |
|                                                            | 1585J-M type cable or 2711P-CBL-EX04 (4 m/14 ft) |

### Communication Cables: PanelView Plus 7 Standard Terminals to SLC Controllers

|                                                             |                                                      |
|-------------------------------------------------------------|------------------------------------------------------|
| PanelView Plus 7 (400W, 600, 700, 900W, 1000, 1200W, 1500)) | SLC 5/05                                             |
|                                                             | Port: CH1 - Ethernet - RJ45<br>Protocol: EtherNet/IP |
|                                                             | 1585J-M type cable or 2711P-CBL-EX04 (4 m/14 ft)     |

### Communication Cables: PanelView Plus 7 Standard Terminals to MicroLogix Controllers

|                                                            |                                                  |
|------------------------------------------------------------|--------------------------------------------------|
| PanelView Plus 7 (400W, 600, 700, 900W, 1000, 1200W, 1500) | MicroLogix 1100, 1400                            |
|                                                            | Port: Ethernet - RJ45<br>Protocol: EtherNet/IP   |
|                                                            | 1585J-M type cable or 2711P-CBL-EX04 (4 m/14 ft) |

### Communication Cables: PanelView Plus 7 Standard Terminals to CompactLogix Controllers

|                                                            |                                                               |
|------------------------------------------------------------|---------------------------------------------------------------|
| PanelView Plus 7 (400W, 600, 700, 900W, 1000, 1200W, 1500) | CompactLogix L35E, L23E, L32E, 1768-ENBT, and 5370 L1, L2, L3 |
|                                                            | Port: Ethernet - RJ45<br>Protocol: EtherNet/IP                |
|                                                            | 1585J-M type cable or 2711P-CBL-EX04 (4 m/14 ft)              |

### Communication Cables: PanelView Plus 7 Standard Terminals to ControlLogix Controllers

|                                                            |                                                                     |
|------------------------------------------------------------|---------------------------------------------------------------------|
| PanelView Plus 7 (400W, 600, 700, 900W, 1000, 1200W, 1500) | ControlLogix                                                        |
|                                                            | Communication Module: 1756-ENBT, 1756-EN2T<br>Protocol: EtherNet/IP |
|                                                            | 1585J-M type cable or 2711P-CBL-EX04 (4 m/14 ft)                    |

## Communication Cables

The tables list runtime communication cables for PanelView Plus 7 Performance (700, 900W, 1000, 1200W, 1500, and 1900) terminals.

All PanelView Plus 7 terminals use a standard Ethernet cable for application transfers between a computer and the terminal.

### Communication Cables: PanelView Plus 7 Performance Terminals to PLC-5® Controllers

|                                                                       |                                                  |
|-----------------------------------------------------------------------|--------------------------------------------------|
|                                                                       | PLC-5E                                           |
| PanelView Plus 7 Performance (700, 900W, 1000, 1200W, 1500, and 1900) | Port: CH2 Ethernet RJ45<br>Protocol: EtherNet/IP |
|                                                                       | 1585J-M type cable or 2711P-CBL-EX04 (4 m/14 ft) |

### Communication Cables: PanelView Plus 7 Performance Terminals to SLC Controllers

|                                                                       |                                                      |
|-----------------------------------------------------------------------|------------------------------------------------------|
|                                                                       | SLC 5/05                                             |
| PanelView Plus 7 Performance (700, 900W, 1000, 1200W, 1500, and 1900) | Port: CH1 - Ethernet - RJ45<br>Protocol: EtherNet/IP |
|                                                                       | 1585J-M type cable or 2711P-CBL-EX04 (4 m/14 ft)     |

### Communication Cables: PanelView Plus 7 Performance Terminals to MicroLogix Controllers

|                                                                       |                                                  |
|-----------------------------------------------------------------------|--------------------------------------------------|
|                                                                       | MicroLogix 1100, 1400                            |
| PanelView Plus 7 Performance (700, 900W, 1000, 1200W, 1500, and 1900) | Port: Ethernet - RJ45<br>Protocol: EtherNet/IP   |
|                                                                       | 1585J-M type cable or 2711P-CBL-EX04 (4 m/14 ft) |

### Communication Cables: PanelView Plus 7 Performance Terminals to CompactLogix Controllers

|                                                                       |                                                               |
|-----------------------------------------------------------------------|---------------------------------------------------------------|
|                                                                       | CompactLogix L35E, L23E, L32E, 1768-ENBT, and 5370 L1, L2, L3 |
| PanelView Plus 7 Performance (700, 900W, 1000, 1200W, 1500, and 1900) | Port: Ethernet - RJ45<br>Protocol: EtherNet/IP                |
|                                                                       | 1585J-M type cable or 2711P-CBL-EX04 (4 m/14 ft)              |

### Communication Cables: PanelView Plus 7 Performance Terminals to ControlLogix Controllers

|                                                                       |                                                                     |
|-----------------------------------------------------------------------|---------------------------------------------------------------------|
|                                                                       | ControlLogix                                                        |
| PanelView Plus 7 Performance (700, 900W, 1000, 1200W, 1500, and 1900) | Communication Module: 1756-ENBT, 1756-EN2T<br>Protocol: EtherNet/IP |
|                                                                       | 1585J-M type cable or 2711P-CBL-EX04 (4 m/14 ft)                    |

## Communication Cables

Use these cables for connecting PanelView 800 and PanelView Component terminals.

### Cables for PanelView 800 and PanelView Component Terminals

| Cat. No.           | Description                                                         | For Use With                                         |
|--------------------|---------------------------------------------------------------------|------------------------------------------------------|
| 2711C-CBL-UU02     | USB-A host to USB-B device cable, 2 m (6.5 ft)                      | C200, C300                                           |
| 2711P-CBL-EX04     | Ethernet crossover CAT5 cable, 4.3 m (14 ft)                        | PanelView 800: 4-in, 7-in., and 10-in.               |
| 1747-CP3           | Serial 9-pin D-shell to 9-pin D-shell null modem cable, 3 m (10 ft) | C200, C300<br>PanelView 800: 4-in, 7-in., and 10-in. |
| 1761-CBL-PM02      | Serial 9-pin D-shell to 8-pin mini DIN cable, 2 m (6.5 ft)          | C200, C300<br>PanelView 800: 4-in, 7-in., and 10-in. |
| 2711C-CBL-AB03     | RS-485 5-pin to RJ45 cable                                          | C200, C300<br>PanelView 800: 4-in, 7-in., and 10-in. |
| 1763-NC01 series A | 8-pin Mini DIN to 6-pin RS-485 terminal block                       | PanelView 800: 4-in, 7-in., and 10-in.               |

This table provides a summary of connections to MicroLogix controllers.

### Communication Cables: PanelView 800 and PanelView Component Terminals to MicroLogix Controllers<sup>(1)</sup>

| Protocol                      | Port                  | MicroLogix (8-pin Mini DIN)<br>1000, 1100, 1400, 1200LSP, 1500LSP<br>(CH0) | MicroLogix<br>(9-pin D-shell)<br>1500LRP (CH1) | MicroLogix<br>1100/1400 RS-485<br>(1763-NC01)          | MicroLogix<br>1100, 1400<br>Ethernet |
|-------------------------------|-----------------------|----------------------------------------------------------------------------|------------------------------------------------|--------------------------------------------------------|--------------------------------------|
| DF1                           | RS-232                | 1761-CBL-PM002                                                             | 1747-CP3                                       | —                                                      | —                                    |
| DH-485                        | RS-232                | 1761-CBL-PM002                                                             | 1747-CP3                                       | Use AIC+ module<br>(1761-NET-AIC)<br>connect to port 3 | —                                    |
|                               | RS-485 <sup>(2)</sup> | —                                                                          | —                                              | Belden 3106A or<br>#9842 or equivalent                 | —                                    |
| Modbus                        | RS-232                | 1761-CBL-PM002                                                             | 1747-CP3                                       | Use AIC+ module<br>(1761-NET-AIC)<br>connect to port 3 | —                                    |
| Ethernet<br>(MicroLogix/ENI)2 | Ethernet              | —                                                                          | —                                              | —                                                      | CAT5 Ethernet                        |

(1) The communication cables listed in this table are also used to connect PanelView 800 terminals to MicroLogix controllers.

(2) RS-485 is isolated and is recommended for connecting to only one device with an isolated port.

This table provides a summary of connections to Micro800 controllers.

**Communication Cables: PanelView 800 Terminals to Micro800 Controllers**

| Protocol                | PanelView 800 Port    | Micro820                       | Micro830           | Micro850                       | Micro800 Plug-in Module (2080-SERIALISOL) |
|-------------------------|-----------------------|--------------------------------|--------------------|--------------------------------|-------------------------------------------|
| Modbus (RTU) (HD)       | RS-232                | _(2)                           | 1761-CBL-PM02      | 1761-CBL-PM02                  | _(2)                                      |
|                         | RS-485 <sup>(1)</sup> | _(2)                           | _(2)               | _(2)                           | _(2)                                      |
| Modbus unsolicited (HD) | RS-232                | _(2)                           | 1761-CBL-PM02      | 1761-CBL-PM02                  | _(2)                                      |
|                         | RS-485 <sup>(1)</sup> | _(2)                           | _(2)               | _(2)                           | _(2)                                      |
| Ethernet (AB CIP)       | Ethernet              | 2711P-CBL-EX04 (CAT5 Ethernet) | N/A <sup>(3)</sup> | 2711P-CBL-EX04 (CAT5 Ethernet) | N/A <sup>(3)</sup>                        |
| Modbus TCP              | Ethernet              | 2711P-CBL-EX04 (CAT5 Ethernet) | N/A <sup>(3)</sup> | 2711P-CBL-EX04 (CAT5 Ethernet) | N/A <sup>(3)</sup>                        |
| Serial (AB CIP)         | RS-232                | _(2)                           | 1761-CBL-PM02      | 1761-CBL-PM02                  | _(2)                                      |

(1) RS-485 is isolated and is recommended for connecting to only one device with an isolated port.

(2) This controller includes a terminal block and requires wiring.

(3) This connectivity is not available for this controller.

This table provides a summary of connections to CompactLogix 5370 L1 controllers.

**Communication Cables: PanelView 800 Terminals to CompactLogix 5370 L1 Controllers**

| Protocol (CIP)          | PanelView 800 Port             | CompactLogix 5370 L1           |
|-------------------------|--------------------------------|--------------------------------|
| Ethernet (CompactLogix) | 2711P-CBL-EX04 (CAT5 Ethernet) | 2711P-CBL-EX04 (CAT5 Ethernet) |