

## Selection Tables, Continued

### Bulletin 1746 SLC 500 IFMs and Cables, Continued

These **pre-wired cables** have a pre-wired removable terminal block (RTB) on one end to connect to the front of a Bulletin 1746 digital I/O module and a connector on the other end to plug into a 20- or 40-terminal IFM/XIM. You must first select the IFM/XIM from one of the preceding selection tables.

#### Pre-Wired Cables for Bulletin 1746 Digital I/O Modules

| Cable Cat. No. | Standard Cable Lengths | Build-to-Order Available | No. of Conductors | Mating 1746 I/O Module Catalog Number                  |
|----------------|------------------------|--------------------------|-------------------|--|
| 1492-CABLE●A   | 0.5, 1.0, 2.5, 5.0 m   | Yes                      | 20                | 1746-IA16, -IM16                                       |
| 1492-CABLE●B   | 0.5, 1.0, 2.5, 5.0 m   | Yes                      | 20                | 1746-IB16, -IH16, -IN16, -ITB16, -ITV16                |
| 1492-CABLE●C   | 0.5, 1.0, 2.5, 5.0 m   | Yes                      | 20                | 1746-OA16  |
| 1492-CABLE●CR  | 0.5, 1.0, 2.5, 5.0 m   | Yes                      | 20                | 1746-OA16  |
| 1492-CABLE●D   | 0.5, 1.0, 2.5, 5.0 m   | Yes                      | 20                | 1746-OW16, -OX8  |
| 1492-CABLE●E   | 0.5, 1.0, 2.5, 5.0 m   | Yes                      | 20                | 1746-IG16, -OB16, -OB16E, -OBP16, -OG16, -OV16, -OVP16 |
| 1492-CABLE●G   | 0.5, 1.0, 2.5, 5.0 m   | Yes                      | 20                | 1746-OA16  |
| 1492-CABLE●H   | 0.5, 1.0, 2.5, 5.0 m   | Yes                      | 40                | 1746-IB32, -IV32, -OB32, -OB32E, -OV32                 |
| 1492-CABLE●N   | 0.5, 1.0, 2.5, 5.0 m   | Yes                      | 20                | 1746-OW16, -OX8  |
| 1492-CABLE●S   | 0.5, 1.0, 2.5, 5.0 m   | Yes                      | 20                | 1746-OX8   |

- ① Cables are available in standard lengths of 0.5 m, 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (005 = 0.5 m, 010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: **Catalog Number 1492-CABLE005N** is for a 0.5 m cable that could be used to connect a Catalog Number 1492-IFM20D24N IFM to a Catalog Number 1746-OW16 I/O module. Build-to-order lengths are also available.

The **I/O module-ready cables** have a pre-wired RTB on one end to plug onto the front of a Bulletin 1746 I/O module and 20 or 40 individually colored #18 AWG conductors on the other end. These cables provide the convenience of pre-wired connections at the I/O module end, while still allowing the flexibility to field-wire to standard terminal blocks of your choice.

#### I/O Module-Ready Cables for Bulletin 1746 Digital I/O Modules ②

| Cable Cat. No.  | Standard Cable Lengths | Build-to-Order Available | No. of Conductors | Mating 1746 I/O Module Catalog Number  |
|-----------------|------------------------|--------------------------|-------------------|--|
| 1492-CABLE●N3   | 1.0, 2.5, 5.0 m        | Yes                      | 40                | 1746-IB32, -IV32, -OB32, -OV32, -OB32E   |
| 1492-CABLE●RTBB | 1.0, 2.5, 5.0 m        | Yes                      | 20                | 1746-IB16, -IC16, -IG16, -IH16, -IN16, -ITB16, -ITV16, -IV16, -OB16, -OB16E, -OBP8, -OBP16, -OG16, -OV16, -OVP16 |
| 1492-CABLE●RTBO | 1.0, 2.5, 5.0 m        | Yes                      | 20                | 1746-OW16, -OX8  |
| 1492-CABLE●RTBR | 1.0, 2.5, 5.0 m        | Yes                      | 20                | 1746-IA16, -OA16, -OAP12, -IM16  |

- ② Cables are available in standard lengths of 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: **Catalog Number 1492-CABLE050RTBR** is for a 5.0 m cable with a pre-wired Catalog Number 1746-RT25R RTB on one end.
- ③ Digital I/O module-ready cables should not be used with analog module as a cable shield and drain wire is not provided.

**Note:** The following I/O Modules do not have RTBs: 1746-IA4, 1746-IA8, 1746-IB8, 1746-IM4, 1746-IM8, 1746-IV8, 1746-OA8, 1746-OB8.

**Pre-Wired Cables for Bulletin 1769 Digital I/O Modules (Continued)**

| Cable Cat. No. | Standard Cable Lengths | Build-to-Order Available | No. of Conductors | Mating 1769 I/O Module Catalog Number                |
|----------------|------------------------|--------------------------|-------------------|--|
| 1492-CAB①L69   | 0.5, 1.0, 2.5, 5.0 m   | Yes                      | 20                | 1769-OB8   |
| 1492-CAB①M69   | 0.5, 1.0, 2.5, 5.0 m   | Yes                      | 20                | 1769-OA16, -OW16 (IFM modules with multiple commons) |
| 1492-CABLE①H   | 0.5, 1.0, 2.5, 5.0 m   | Yes                      | 40                | 1769-IQ32T, -OB32T, -OV32T                           |

- ① Cables are available in standard lengths of 0.5 m, 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (005 = 0.5 m, 010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: **Catalog Number 1492-CAB005E69** is for a 0.5 m cable that can be used to connect a Catalog Number 1492-IFM20D24N IFM to a Catalog Number 1769-OB16 I/O module.

The **I/O module-ready cables** have a pre-wired RTB on one end to plug onto the front of a Bulletin 1769 I/O module and 20 individually colored #18 AWG conductors on the other end. These cables provide the convenience of pre-wired connections at the I/O module end, while still allowing the flexibility to field-wire to standard terminal blocks of your choice.

**I/O Module-Ready Cables for Bulletin 1769 Digital I/O Modules ②**

| Cable Catalog Number | Standard Cable Lengths | Build-to-Order Available | No. of Conductors | Mating 1769 I/O Module Catalog Number   |
|----------------------|------------------------|--------------------------|-------------------|---|
| 1492-CAB③RTN10       | 1.0, 2.5, 5.0 m        | Yes                      | 12                | 1769-OA8, -OW8  |
| 1492-CAB③RTN18       | 1.0, 2.5, 5.0 m        | Yes                      | 20                | 1769-IA8I, -IA16, -IQ16, -IQ16F, -OA16, -OB16, -OV16, -OW16, -OW8I, -IM12, -OB8 |
| 1492-CAB③RTN32I      | 1.0, 2.5, 5.0 m        | Yes                      | 40 ④              | 1769-IQ32   |
| 1492-CAB③RTN32O      | 1.0, 2.5, 5.0 m        | Yes                      | 40 ④              | 1769-OB32   |
| 1492-CABLE④N3        | 1.0, 2.5, 5.0 m        | Yes                      | 40 ④              | 1769-IQ32T, -OB32T, -OV32T  |

- ② 1492-CAB③ RTN32I and 1492-CAB③ RTN32O cables use 22 AWG wire.
- ③ Cables are available in standard lengths of 1.0 m, 2.5 m, and 5.0 m. To order, insert the code for the desired cable length into the catalog number (010 = 1.0 m, 025 = 2.5 m, and 050 = 5.0 m). Example: **Catalog Number 1492-CAB050RTN10** is for a 5.0 m cable with a wired Catalog Number 1746-RTBN10 on one end.
- ④ Discrete I/O ready cables should not be used with PLC analog I/O modules as a cable shield and drain wires are not provided.

## Digital Cable Specifications, Continued

### Pre-Wired Cables, Continued

#### Digital Pre-Wired Cable Specifications

| Catalog Number | Standard Cable Lengths | Insulation Rating | No. of Conductors | Conductor Size | Nominal Outer Diameter | I/O Module Connector                             |
|----------------|------------------------|-------------------|-------------------|----------------|------------------------|--|
| 1492-CABLEA    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1746-RT25R Red Removable Terminal Block          |
| 1492-CABLEB    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1746-RT25B Blue Removable Terminal Block         |
| 1492-CABLEC    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1746-RT25R Red Removable Terminal Block          |
| 1492-CABLECR   | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1746-RT25R Red Removable Terminal Block          |
| 1492-CABLED    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1746-RT25C Orange Removable Terminal Block       |
| 1492-CABLEE    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1746-RT25B Blue Removable Terminal Block         |
| 1492-CABLEF    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1771-WH (16-Point/21 Terminal) Wiring Arm        |
| 1492-CABLEFF   | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1771-WHF (16-Point/21 Terminal) Fused Wiring Arm |
| 1492-CABLEG    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1746-RT25R Red Removable Terminal Block          |
| 1492-CABLEH    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 40                | #22 AWG        | 11.7 mm (0.46 in.)     | 1746-N3 40-Pin Cable Connector                   |
| 1492-CABLEJ    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 40                | #22 AWG        | 11.7 mm (0.46 in.)     | 1771-WN (32-Point/40 Terminal) Wiring Arm        |
| 1492-CABLEK    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 40                | #22 AWG        | 11.7 mm (0.46 in.)     | 1771-WN (32-Point/40 Terminal) Wiring Arm        |
| 1492-CABLEL    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 40                | #22 AWG        | 11.7 mm (0.46 in.)     | 1771-WN (32-Point/40 Terminal) Wiring Arm        |
| 1492-CABLEM    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 40                | #22 AWG        | 11.7 mm (0.46 in.)     | 1771-WN (32-Point/40 Terminal) Wiring Arm        |
| 1492-CABLEN    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1746-RT25C Orange Removable Terminal Block       |
| 1492-CABLER    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 40                | #22 AWG        | 11.7 mm (0.46 in.)     | 1771-WN (32-Point/40 Terminal) Wiring Arm        |
| 1492-CABOR71   | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 40                | #22 AWG        | 11.7 mm (0.46 in.)     | 1771-WN (32-Point/40 Terminal) Wiring Arm        |
| 1492-CABLES    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1746-RT25C Orange Removable Terminal Block       |
| 1492-CABLET    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 11.7 mm (0.46 in.)     | 1771-WA (8-Point/10 Terminal) Wiring Arm         |
| 1492-CABLEU    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1756-TBNH Removable Terminal Block               |
| 1492-CABLEV    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1756-TBNH Removable Terminal Block               |
| 1492-CABLEW    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1756-TBNH Removable Terminal Block               |
| 1492-CABLEX    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1756-TBNH Removable Terminal Block               |
| 1492-CABLEY    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 40                | #22 AWG        | 11.7 mm (0.46 in.)     | 1756-TBCH Removable Terminal Block               |
| 1492-CABLEZ    | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 40                | #22 AWG        | 11.7 mm (0.46 in.)     | 1756-TBCH Removable Terminal Block               |
| 1492-CABOA62   | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 40                | #22 AWG        | 11.7 mm (0.46 in.)     | 1762-L40xxx Input Terminal                       |
| 1492-CABOB62   | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 40                | #22 AWG        | 11.7 mm (0.46 in.)     | 1762-L40xxx Output Terminal                      |
| 1492-CABOA64   | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1764-24AWA, -24BWA Input Terminal                |
| 1492-CABOB64   | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1764-28BxB Input Terminal                        |
| 1492-CABOC64   | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1764-24AWA, -24BWA Output Terminal               |
| 1492-CABOF64   | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1764-28BxB Output Terminal                       |
| 1492-CABOA69   | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1769-RTBN18 Removable Terminal Block             |
| 1492-CABOB69   | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1769-RTBN18 Removable Terminal Block             |
| 1492-CABOC69   | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1769-RTBN10 Removable Terminal Block             |
| 1492-CABOD69   | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1769-RTBN18 Removable Terminal Block             |
| 1492-CABOE69   | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1769-RTBN18 Removable Terminal Block             |
| 1492-CABOF69   | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1769-RTBN18 Removable Terminal Block             |
| 1492-CABOG69   | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1769-RTBN18 Removable Terminal Block             |
| 1492-CABOH69   | 0.5, 1.0, 2.5, 5.0 m   | 300V 80°C         | 20                | #22 AWG        | 9.0 mm (0.36 in.)      | 1769-RTBN18 Removable Terminal Block             |