

# 1756 Removable Terminal Blocks



Removable terminal blocks (RTBs) provide a flexible interconnection between your plant wiring and 1756 ControlLogix I/O modules. The RTB plugs into the front of the I/O module. The type of module determines which RTB you need. You can choose screw-clamp or spring-clamp RTBs.

RTBs are not shipped with I/O modules. You must order them separately. The standard housing on the front of the wiring arm is not deep enough for 2.5 mm<sup>2</sup> (14 AWG) wiring. So, if you plan to use 2.5 mm<sup>2</sup> (14 AWG) wiring, order the extended housing.



**ATTENTION:** If separate power sources are used, do not exceed the specified isolation voltage. See the specifications for each individual module on the preceding pages.



**WARNING:** Do not use 1756-TBNHS, 1756-TBSHS, 1756-TBCHS, or 1756-TBS6HS safety RTBs and 1756-TBES extended-depth terminal block housings with non-safety I/O modules.

## RTB Specifications

| Attribute                | 1756-TBCH<br>1756-TBCHS<br>1756-TBCHXT                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1756-TBNH<br>1756-TBNHS<br>1756-TBNHXT       | 1756-TBSH<br>1756-TBSHS<br>1756-TBSHXT                                                                                                                                                                                                | 1756-TBS6H<br>1756-TBS6HS<br>1756-TBS6HXT                          | 1756-TBE<br>1756-TBES<br>1756-TBEXT   |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------|
| Description              | 36-pin cage-clamp removable terminal block with standard housing                                                                                                                                                                                                                                                                                                                                                                                                                             | 20-position NEMA screw-clamp removable block | 20-pin spring-clamp removable terminal block with standard housing                                                                                                                                                                    | 36-pin spring-clamp removable terminal block with standard housing | Extended depth terminal block housing |
| Screw torque             | 0.5 N•m (4.4 lb•in)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.36 N•m (12 lb•in)                          | -                                                                                                                                                                                                                                     | -                                                                  | -                                     |
| Wire size <sup>(1)</sup> | Single wire connection: 0.33...2.1 mm <sup>2</sup> (22...14 AWG) solid or stranded shielded copper wire rated at 105 °C (221 °F), or greater, 1.2 mm (3/64 in.) insulation max.<br>Do not wire more than one conductor on any single terminal.<br><br>Double wire connection: 0.33...1.3 mm <sup>2</sup> (22...16 AWG) solid or stranded copper wire rated at 105 °C (221 °F), or greater, 1.2 mm (3/64 in.) insulation max.<br>Do not wire more than two conductors on any single terminal. |                                              | Single wire connection: 0.33...2.1 mm <sup>2</sup> (22...14 AWG) solid or stranded copper wire, rated at 105 °C (221 °F) or greater, 1.2 mm (3/64 in.) insulation max.<br>Do not wire more than one conductor on any single terminal. |                                                                    | -                                     |
| Screwdriver width        | 3.2 mm (1/8 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8 mm (5/16 in.) Max                          | -                                                                                                                                                                                                                                     | -                                                                  | -                                     |

(1) Maximum wire size requires extended housing, catalog number 1756-TBE.