



8510 AC Spindle Drive Termination Panels

(Cat. No. 8510SA-TPxxx)

Instructions

Introduction

All signal interface connections to the 8510 AC Spindle Drive are performed through multi-pin connectors. As a user convenience, these termination panels, which are DIN rail mounted, will provide wiring terminations to conventional terminal blocks. Each of the 8510 Termination Panels includes an appropriately wired 1.5 m (5 ft.) interconnecting cable with connectors on both ends.

Six different termination panels are available to interface the various 8510 connectors. One version terminates to the 50 pin connector on the drive and five different versions are used for the 20 pin connectors. For the five 20 pin versions, the DIN rail mounted termination panels are identical, but each of the interconnecting cables is unique. The connector on each end of the cable is clearly marked with the “CN” number of the corresponding drive mating connector. Each cable is also marked with the Allen-Bradley part number. The following information identifies the various termination panels, the cable part number, and the “CN” number of the drive mating connector. The optical encoder and high resolution magnetic feedback are both interfaced through drive connector CN2 – the cables are marked CN2A and CN2B, respectively.

<u>Catalog Number</u>	<u>Function</u>	<u>Cable Part No.</u>	<u>Connector</u>
8510SA-TP20D	Digital Speed or Position Input	148167	CN10
8510SA-TP20E	Optical Encoder Orient Feedback	148168	CN2A
8510SA-TP20M	High Resolution Magnetic Feedback	151310	CN2B
8510SA-TP20R	Motor Resolver Feedback	148165	CN3
8510SA-TP20W	Dual Winding Contactor Control	148166	CN1
8510SA-TP50S	Standard I/O	148169	CN9

Installation

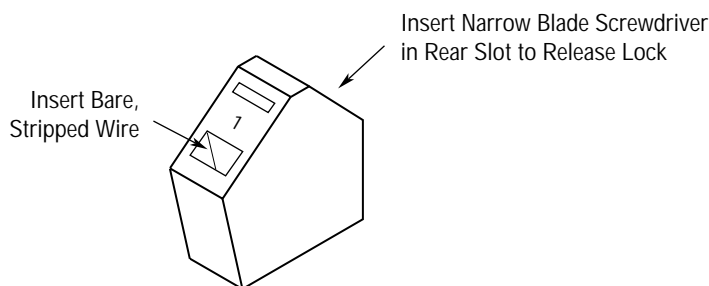
The following describes the steps you must perform to install and use the 8510 Termination Panels.

1. Mount a DIN #3 mounting rail (A-B catalog number 199-DR1, 1492-DR5, 1492-DR6, 1492-DR7, or equivalent) close enough to the drive to allow interconnection with the supplied 1.5 m (5 ft.) cable. Allow an approximate spacing of 88 mm (3.5 in.) for each 20 pin termination panel and 152 mm (6 in.) for each 50 pin termination

panel. Complete termination panel dimensions are shown in Figure 3.13 of the *8510 User Manual* (publication 8510-5.1).

2. Snap the termination panels onto the mounting rail. Connect the cable to the termination panel and to the corresponding numbered connector on the 8510 drive.
3. Refer to Chapter 8 of the *8510 User Manual* for the terminal assignments for each interface signal.
4. The terminal blocks used on the termination panels are a compression type suitable for bare, stripped wire. Terminals will accept #16 AWG (1.5 mm²) wire or smaller. To insert a wire, release the compression lock by firmly pressing a narrow blade screwdriver into the slot on the back of the terminal (see figure below). Insert the wire and release the compression lock by removing the screwdriver.

Figure 1
Termination Panel Terminal Block



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WORLD HEADQUARTERS
Allen-Bradley
1201 South Second Street
Milwaukee, WI 53204
USA
Tel: (1) 414 382-2000
Telex: 43 11 016
Fax: (1) 414 382-4444

EUROPE/MIDDLE EAST/AFRICA HEADQUARTERS
Allen-Bradley Europe B.V.
Amsterdamseweg 15
1422 AC Uithoorn
The Netherlands
Tel: (31) 2975/43500
Telex: (844) 18042
Fax: (31) 2975/60222

ASIA/PACIFIC HEADQUARTERS
Allen-Bradley (Hong Kong) Limited
Room 1006, Block B, Sea View Estate
2-8 Watson Road
Hong Kong
Tel: (852) 887-4788
Telex: (780) 64347
Fax: (852) 510-9436

CANADA HEADQUARTERS
Allen-Bradley Canada Limited
135 Dundas Street
Cambridge, Ontario N1R 5X1
Canada
Tel: (1) 519 623-1810
Fax: (1) 519 623-8930

LATIN AMERICA HEADQUARTERS
Allen-Bradley
1201 South Second Street
Milwaukee, WI 53204
USA
Tel: (1) 414 382-2000
Telex: 43 11 016
Fax: (1) 414 382-2400