

## Pre-Wired Cable and AIFM Options for Spectrum 1771sc-IFE32 Analog Module

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The Spectrum 1771sc-IFE32 is a 32 channel analog input module. When the IFE32 is configured for differential mode it requires 16 twisted pairs to provide maximum shielding from electrical noise. However, the Allen-Bradley 1492 Pre-Wired Cabling system provides a cable with a maximum of 9 twisted pairs. In order to accommodate the Spectrum IFE32 module in differential mode, two **1492-ACABLE-E** cables will be required for each module. If the IFE32 is configured for single-ended mode two **1492-ACABLE-E** cables must be substituted in place of the **1492-ACABLE-E** cables. The table below lists the AIFM and cable requirements for each wiring configuration supported by the Spectrum IFE32 module.

ĺ	Wiring Config.	AB AIFM Cat. No.	AB Cable Cat. No.
ſ	Single Ended	1492-AIFM8-3 (QTY = 2)	1492-ACABLE-F (QTY = 2)
ſ	Differential	1492-AIFM8-3 (QTY = 2)	1492-ACABLE-E (QTY = 2)

Refer to *figures 1 & 2* for wiring details.

Note1: The terminal blocks that accompany the 1492 Pre-Wired cables are not used, a single AB 40 terminal wiring arm is all that is required.

Note2: In Differential mode, there will be two twisted pairs that will not be wired to the IFE32 terminal block.

For details on the Allen-Bradley 1492 pre-wired systems, please refer to <a href="http://www.ab.com/industrialcontrols/products/wiring/">http://www.ab.com/industrialcontrols/products/wiring/</a>

Figure 1 (Single-Ended) CH1 RED(3) BROWN (2) CH2 -CH3 BLACK (1) WHITE (14) CH4 10 -COM ORANGE (4) WHITE/BLACK (15) CH5 -CH6 WHITE/BROWN (16) WHITE/RED (15) CH7 -CH8 WHITE/ORANGE (18) CABLE 1 CABLE 1 BLUE (10) COM ACABLE-F ACABLE-F -CH9 VIOLET (12) GRAY (13) CH10 -CH11 WHITE/BLACK/BROWN (25) WHITE/GRAY (24) CH12 Ø Ø -COM GREEN (8) WHITE/VIOLET (23) CH13 -CH14 WHITE/BLUE (22) WHITE/YELLOW (20) CH15 CH16 WHITE/GREEN (21) YELLOW (6) COM CH17 RED(3) BROWN (2) CH18 - CH19 BLACK (1) WHITE (14) CH20 COM ORANGE (4) WHITE/BLACK (15) CH21 **1** CH22 WHITE/BROWN (16) WHITE/RED (15) CH23 CH24 WHITE/ORANGE (18) CABLE 2 10 CABLE 2 BLUE (10) COM ACABLE-F ACABLE-F CH25 VIOLET (12) GRAY (13) CH26 - CH27 WHITE/BLACK/BROWN (25) WHITE/GRAY (24) CH28 包 10 - COM GREEN (8) WHITE/VIOLET (23) CH29 12 **1** - CH30 WHITE/BLUE (22) WHITE/YELLOW (20) CH31 CH32 WHITE/GREEN (21) YELLOW (6) COM

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Figure 2(Differential)

