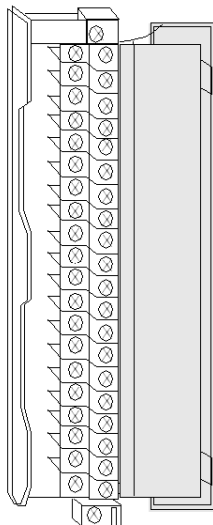


140 XTS 002 00 40-pin Field Wiring Terminal Strip

The 140 XTS 002 00 differs from the 140 XTS 001 00 in that it does not have the clear plastic cover over the screw-down bolts.



Customer Identification Label

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	

3. The 140 CFA 040 00 block does not incorporate an isometric barrier and is not recommended for use with 140 ATI 030 00 TC module. Without such a barrier, temperature readings may vary up to 2 degrees from one end of the block to the other. If the application can tolerate this temperature difference, the block (and module) remote CJC may be used.

CableFast Terminal Blocks

The following includes descriptions for the terminal blocks discussed in this Appendix.

This table includes descriptions for the following terminal blocks.

Block Number	Block Description
140 CFA 040 00	The A block is a straight through point to point connection on the terminal block. Wiring of this block is identical to wiring the Quantum I/O connector (140 XTS 002 00).
140 CFB 032 00	The B block is used for individually fused 2-wire digital inputs. This terminal block is designed to help prevent a single point error from affecting the remaining inputs. It is not recommended for 1-wire inputs powered from the field.
140 CFC 032 00	The C block provides connection for 32 group fused input or output points. The block may be used for 1- or 2-wire inputs or outputs, and features a fuse per group, four groups total. Users select input or output mode via four switches located on the module. (The default is input mode.)
140 CFD 032 00	The D block is used for sensors requiring either 2- or 3-wire electrical interface. A fuse per group is supplied to accommodate the I/O module (4) groups.
140 CFE 032 00	The E block provides connection for 32 individually fused 24 VDC outputs. 1- and 2-wire interfacing may be selected. Field power must be supplied to the four groups.
140 CFG 016 00	The G block is a high power output block used on both AC and DC circuits requiring up to 2 A. Individual fusing is provided and may be used in both 1- and 2-wire installations. It is also used for isolated AC modules.
140 CFH 008 00	The H block is used for analog inputs, with individual fusing provided per channel. This interface provides plus, minus, shield, and power supply interface for both field and loop power configurations.
140 CFI 008 00	The I block is used for analog inputs. This interface provides plus, minus, shield, and power supply interface for both field and loop power configurations.
140 CFJ 004 00	The J block is used for analog outputs, with individual fusing provided per channel. This interface provides plus, minus, shield, and power supply interface for both field and loop power configurations.
140 CFK 004 00	The K block is used for analog outputs. This interface provides plus, minus, shield, and power supply interface for both field and loop power configurations.

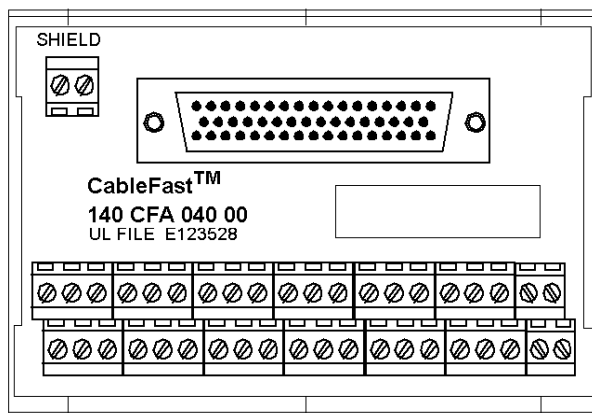
140 CFA 040 00 Quantum CableFast Cabling Block

Overview

The A block is a straight-through point-to-point connection on the terminal block. Wiring this block (and other CableFast cabling blocks) is identical to wiring the Quantum I/O connector (140 XTS 002 00).

140 CFA 040 00 Terminal Block

The following terminal block is unique to the 140 CFA 040 00 module.



Application Notes

The following are the application notes for the 140 CFA 040 00 terminal block.

1. **Configuration** – two columns
2. **Compatibility** – this terminal block provides straight through (point-to-point) connection.

NOTE: You may use this terminal block with Quantum I/O modules except the 140 ATI 030 00 thermocouple module.

I/O Module Specifications

I/O Modules with Operating Voltages Less than 24 V

Fast transients (IEC 1000-4-4)	0.5 kV common mode
Damped oscillatory transients	1 kV common mode
	0.5 kV differential mode
Surge withstand capability (transients) (IEC 1000-4-5)	1 kV common mode
	0.5 kV differential mode

I/O Modules with 24 to 48 V Operating Voltages

Fast transients (IEC 1000-4-4)	1 kV
Damped oscillatory transients	2 kV common mode
	1 kV differential mode
Surge withstand capability (transients) (IEC 1000-4-5)	1 kV common mode
	0.5 kV differential mode

I/O Modules with Operating Voltages Greater than 48 V

Fast transients (IEC 1000-4-4)	2 kV
Damped oscillatory transients	2 kV common mode
	1 kV differential mode
Surge withstand capability (transients) (IEC 1000-4-5)	2 kV common mode
	1 kV differential mode

Operating and Storage Conditions

Operating Conditions

Temperature	0 ... 60 °C (32 ... 140 °F)
Humidity	90 ... 95% RH non-condensing at 6 °C
Chemical interactions	Enclosures and terminal strips are made of polycarbonates. This material can be damaged by strong alkalis and various hydrocarbons, esters, halogens and ketones in combination with heat. Common products containing these include detergents, PVC products, petroleum products, pesticides, disinfectants, paint removers, and spray paints.
Altitude	2,000 m. When the altitude exceeds this, reduce the 60 °C maximum operating temperature by 6 °C/1000 m of additional elevation.
Vibration	10 ... 57 Hz at 0.075 mm constant displacement amplitude 57 ... 150 Hz at 1 g
Shock	+/-15 g peak, 11 ms, half-sine wave

Storage Conditions

Temperature	-40 ... 85 °C. C -40 ... 185 °F
Humidity	0 ... 95% RH noncondensing at 60 °C
Free Fall	1 m (3 ft)

Gas Resistance in Conformally Coated Modules

This table shows the results of the mixed flowing gas test, 22 days exposure

Standard	Gas	Test Requirement	Actual Exposure
EIA364-65 Level III	CL2 (chlorine)	20 PPB, +/- 5 PPB	20 PPB
	NO2 (nitric oxide)	200 PPB, +/- 50 PPB	1250 PPB
	H2S (hydrogen sulfide)	100 PPB, +/- 20 PPB	100 PPB
	SO2 (sulfur oxide)	N/A	300 PPB
ISA-S71.04 (GX Severe)	CL2 (chlorine)	10 PPB	20 PPB
	NO2 ((nitric oxide)	1250 PPB	1250 PPB
	H2S (hydrogen sulfide)	50 PPB	100 PPB
	O2 (sulfur oxide)	300 PPB	300 PPB