ADP-TF620-01-1

50 Pins ABB –"TF620" Migration adapter

Description :

The **ADP-TF620-01-1** migration adapter allows to connect an existing female ABB S600 "TF620" connector to a new distributed Control System (DCS), or a Programmable Logic Controller (PLC).

It is particularly suitable for the migration of existing ABB S600 I/O cards.

The main advantages of the **ADP-TF620-01-1** for migration of the ABB S600 I/Os are as follow:

- The "TF620" female connector is simply disconnected from the existing ABB S600 I/O card and reconnected to the front connector of the **ADP-TF620-01-1** without any modification of the wiring (same labels and same electrical characteristics).
- Since the wiring is not affected, the I/O testing times are reduced.

The **ADP-TF620-01-1** migration adapter can be connected to the suitable new I/O card of a DCS or a PLC using four pluggable male connectors located at the back of the **ADP-TF620-01-1**.
The connection is done using a shielded cable, with a 12-socket female connector at one end, and labeled flying wires or suitable connector(s) matching with the new system I/O card used at the other end.

The shield of the cable is individually connected to a dedicated four position connector located at the back of the **ADP-TF620-01-1** (at the bottom).

Product options :

Option **-1** : *ADP-TF620-01-1* Standard version

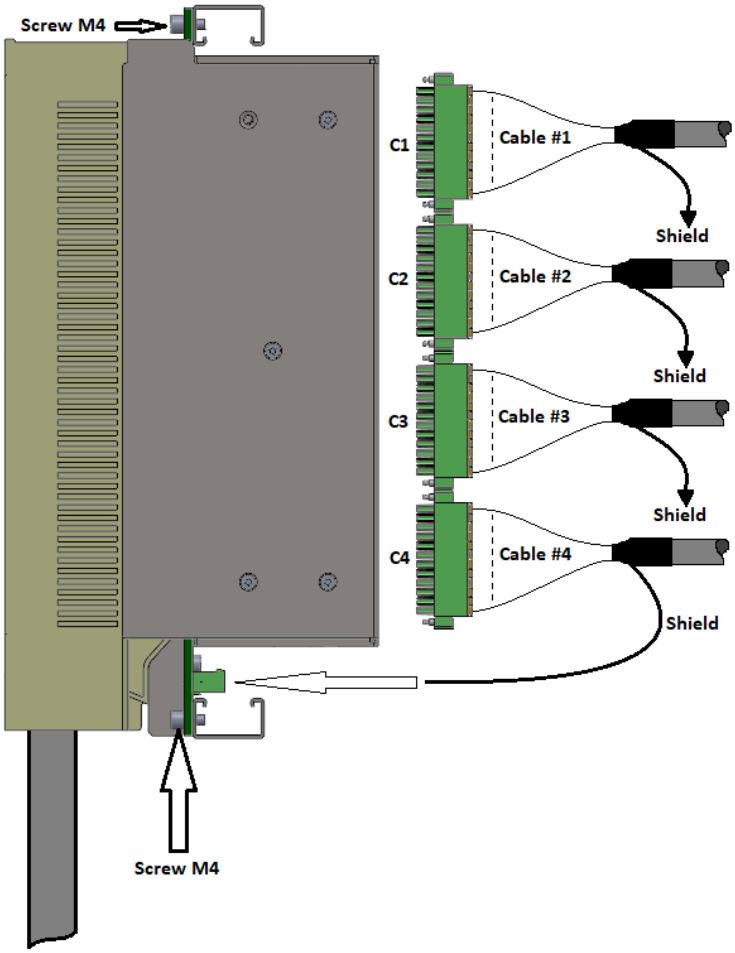
Technical specifications :

Dimensions :
Height : 274.50mm
Width : 40.00mm
Depth : 96.50mm
Weight :
450 g
Temperature range :
Operating : 0°C to 50°C
Storage : -10°C to 60°C
Humidity :
Up to 90% (no condensation)

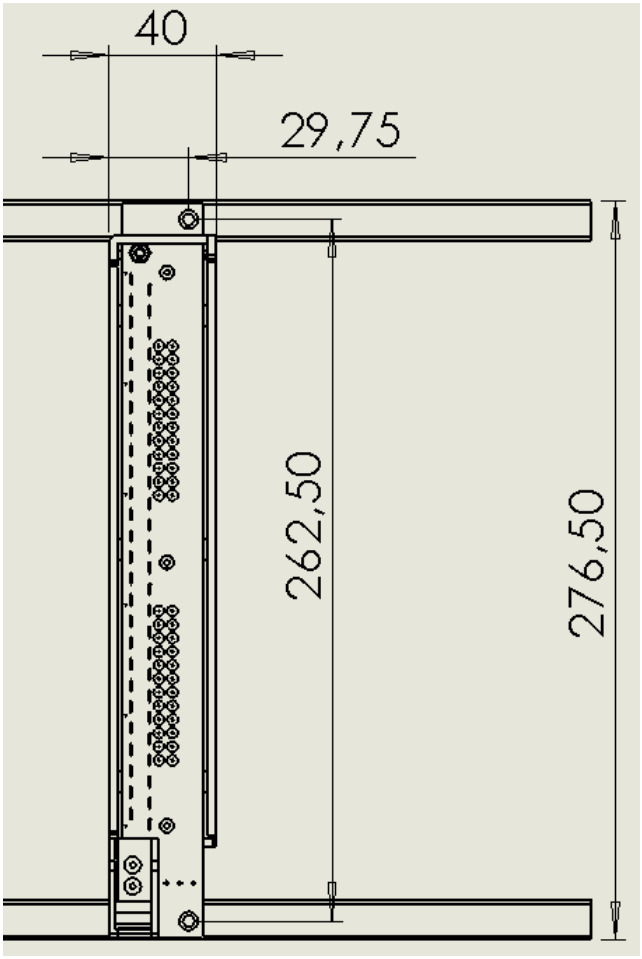
Existing ABB S600 compatible I/O cards :
Analog Input Cards : AI620(4W – 4-20mA) / AI625(2W – 4-20mA)
Analog Output Cards : AO610 (0-20mA) / AO650 (4-20mA)
Discrete Input Cards : DI651 (48Vdc)
Discrete Output Cards : DO620 (24Vdc / 48Vdc – 500mA) *
* Remark : with a max current of **2A** per group of 8 outputs (track of the return common signal located on pins 11, 23, 35 and 47)
Nominal voltage :
0 to 250Vac between each pin of the rear connector (Cat. II/2)
Mounting :
Using two M4 screws by holes located at the top and the bottom of the ADP-TF620-01-1 (axis spacing = 262.5mm)

Connection to the DCS or to the PLC :
Using the FIRELEC dedicated cables plugged into the four female connectors located at the rear of the product secured by two screws per connector.

Wiring description :



Mechanical description :



Pin assignment :

Connector TF620 (Front)	Pins	1	2	3	4	5	6	7	8	9	10	11	12
Connector C1 (Rear)	Pins	1	2	3	4	5	6	7	8	9	10	11	12

Connector TF620 (Front)	Pins	13	14	15	16	17	18	19	20	21	22	23	24
Connector C2 (Rear)	Pins	1	2	3	4	5	6	7	8	9	10	11	12

Connector TF620 (Front)	Pins	25	26	27	28	29	30	31	32	33	34	35	36
Connector C3 (Rear)	Pins	1	2	3	4	5	6	7	8	9	10	11	12

Connector TF620 (Front)	Pins	37	38	39	40	41	42	43	44	45	46	47	48
Connector C4 (Rear)	Pins	1	2	3	4	5	6	7	8	9	10	11	12

Remark : Pin EM of the front connector linked with the “shield connector at the rear bottom of the adapter