

APTER POWER PRODUCT MANUAL

# 6FX8002-2EQ20-1BA0

## Siemens MOTION-CONNECT Signal Cable for Absolute Encoder M17

6FX8002-2EQ20-1BA0 is a Siemens MOTION-CONNECT signal cable in the 6FX8002-2EQ20 family for an absolute encoder with an M17 connection. It carries encoder feedback signals between the compatible motor/encoder assembly and drive-side interface in a configured Siemens motion system.

The cable supports closed-loop motion feedback in machine tools and production machines when connector orientation, cable routing, drive interface, encoder type, and exact suffix are verified against the current Siemens order data.

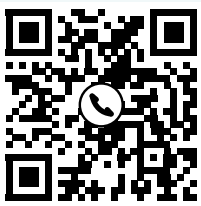
|              |                                    |
|--------------|------------------------------------|
| Manufacturer | Siemens                            |
| Prepared by  | Apter Power                        |
| Document ID  | AP-SIE-12-6FX8002-2EQ20-1BA0-PM-R1 |
| Revision     | R1                                 |
| Issue date   | 2026-08-14                         |

**APTER POWER SALES TEAM**

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

**Keep Feedback Intact. Match the M17. Route Motion Signals Cleanly.**

**WHATSAPP / PHONE**    +86 180 3023 5313  
**EMAIL**                    sales13@apterpower.com  
**WEBSITE**                www.apterpower.com



**SCAN FOR PRODUCT & QUOTE**  
6FX8002-2EQ20-1BA0

# 1. Product Overview and Identity

6FX8002-2EQ20-1BA0 is a Siemens MOTION-CONNECT signal cable in the 6FX8002-2EQ20 family for an absolute encoder with an M17 connection. It carries encoder feedback signals between the compatible motor/encoder assembly and drive-side interface in a configured Siemens motion system.

The cable supports closed-loop motion feedback in machine tools and production machines when connector orientation, cable routing, drive interface, encoder type, and exact suffix are verified against the current Siemens order data.

## Model Configuration

| Field               | Verified information                                         |
|---------------------|--------------------------------------------------------------|
| Complete model      | 6FX8002-2EQ20-1BA0                                           |
| Manufacturer        | Siemens                                                      |
| Product description | Siemens MOTION-CONNECT Signal Cable for Absolute Encoder M17 |

## Key Features

- Official MOTION-CONNECT family identification
- Absolute-encoder feedback application
- M17 connection context
- Exact suffix retained without guessed length

## 2. Technical Specifications

Only manufacturer-confirmed information is stated. Values absent from the named Siemens source are marked for nameplate or document verification.

| Parameter          | Verified value                                                                    |
|--------------------|-----------------------------------------------------------------------------------|
| Manufacturer       | Siemens                                                                           |
| Product family     | MOTION-CONNECT                                                                    |
| Cable function     | Signal cable                                                                      |
| Encoder context    | Absolute encoder                                                                  |
| Connector context  | M17                                                                               |
| Exact suffix       | 1BA0; length and connector detail require current Siemens order-data verification |
| Compliance context | Listed in current Siemens EU Declaration                                          |

### Verification Note

Use the complete 6FX8002-2EQ20-1BA0 identifier. The 6FX8002-2EQ20 family appears in a current Siemens EU Declaration. The exact commercial lifecycle of 6FX8002-2EQ20-1BA0 must be checked in current regional order data. Unpublished values are intentionally not inferred.

### 3. Functions, Applications and Components

#### Core Functions

- Transfers encoder feedback signals
- Connects the compatible encoder/motor to the drive feedback interface
- Supports closed-loop speed and position control
- Maintains the specified motion-system signal path

#### Application Areas

| Application         | System role                                  |
|---------------------|----------------------------------------------|
| Machine tools       | Route absolute-encoder feedback              |
| Production machines | Connect motion axis feedback                 |
| Drive retrofits     | Match the original MOTION-CONNECT cable      |
| Cable replacement   | Preserve connector and routing compatibility |

#### Compatible Components

- Only Siemens motors/encoders and drives listed for 6FX8002-2EQ20-1BA0
- Matching M17 connector arrangement
- Cable routing and dynamic-use class defined by current Siemens order data
- No length is assumed from the 1BA0 suffix on this page

#### Lifecycle Status

The 6FX8002-2EQ20 family appears in a current Siemens EU Declaration. The exact commercial lifecycle of 6FX8002-2EQ20-1BA0 must be checked in current regional order data.

## 4. Installation Precautions

---

- Verify cable length from the exact Siemens order record or label
- Check motor-end and drive-end connector coding
- Maintain specified bend radius and routing
- Separate feedback cable from power conductors as instructed
- Do not pull, twist, or repair connectorized feedback cable outside approved procedures

STOP - Verify before installation

Use the complete 6FX8002-2EQ20-1BA0 identifier. The 6FX8002-2EQ20 family appears in a current Siemens EU Declaration. The exact commercial lifecycle of 6FX8002-2EQ20-1BA0 must be checked in current regional order data. Unpublished values are intentionally not inferred.

Use the physical nameplate and current Siemens documents as the controlling records.

## 5. Official Source and Use Notice

---

### Official source

Siemens EU Declaration for MOTION-CONNECT cables, document 664.NRo.K.38.2504.039, listing the 6FX8002-2EQ20 family as a signal cable for absolute encoder M17.

### Apter Power product page

<https://www.apterpower.com/Siemens/6FX8002-2EQ20-1BA0>

### Use Notice

This is an original Apter Power product-specific reference prepared from the Siemens source named above. It is not a Siemens publication and does not replace the original data sheet, nameplate, certificate, installation drawing, safety instructions, or machine-builder documentation.

### ASK FOR QUOTE

For availability and quotation details, visit [www.apterpower.com](http://www.apterpower.com) or contact [sales13@apterpower.com](mailto:sales13@apterpower.com).