

# Power, data, safety, and diagnostics. **All in one cable.**

## One-cable. Endless possibilities.

SEW-EURODRIVE's **Digital Data Interface (DDI)** one-cable technology is the world's most flexible and complete **single-cable solution**—streamlining installation, eliminating wiring errors, accelerating commissioning, and enabling diagnostics and safety with fewer components and zero compromises.

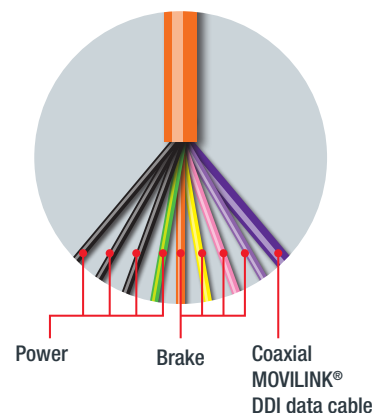
With one cable, you deliver motor power, encoder feedback, brake control, temperature monitoring, digital nameplate data, and more—all digitally transmitted between the drive and motor.

Whether it's an induction motor, servo, or MOVIGEAR® mechatronic unit, the same DDI cable works seamlessly.



## Key Benefits.

- **Single-cable simplicity** - Power+data+diagnostics in one cable for all SEW motors and drives
- **Complete digitalization of the drive** - even without an encoder
- **Plug & Play startup** - Auto-recognition of motor parameters via electronic nameplate
- **Reduces commissioning time** - No need for encoder or brake wiring
- **Fewer errors** - Pre-configured cables eliminate wiring mistakes
- **Field flexibility** - Works with servos, induction motors, or MOVIGEAR®
- **Fewer part numbers** - Standardized cable reduces Bill Of Materials complexity
- **Industry 4.0 ready** - Supports condition monitoring and functional safety
- **Future-proof** - Expandable diagnostics with sensor module





“We went from four cables to one. Install time dropped, wiring errors vanished, and our commissioning was faster than ever.”  
- Automation Engineer, Amazon Robotics



Technical Overview

Feature	Benefit
DDI cable.....	Single cable for power, encoder, brake, temp
Electronic nameplate .....	Automatic drive configuration—minimizes setup time
Coaxial digital link .....	Robust, EMI-resistant data transfer from motor to VFD
DU1C sensor module (optional) .....	Adds live temperature, vibration, and brake wear data for condition monitoring
Drive compatibility.....	MOVITRAC®, MOVIMOT®, MOVIGEAR®, MOVIDRIVE® B & Modular systems
Cable length.....	Up to 200 meters. Custom lengths available. Assembled in the USA.
Connectorization options .....	M23, Han Q, custom connectors, or flying leads

Competitive Comparison

Feature	SEW DDI	Competitor A	Competitor B
One cable for all motor types	✓ Servo, Induction, Mechatronic	✗ Servo Only	✗ Servo Only
Encoder + brake + temp in one	✓	✗	✗
Integrated functional safety	✓	⚠ Limited	⚠ Limited
Digital nameplate recognition	✓	✗	✗
Flexible cabling (up to 200m)	✓ Application Dependent	⚠ Limited	⚠ Limited
Diagnostics and monitoring	✓ Sensor module for temperature, vibration, brake wear, etc.	✗	✗

Take the next step to explore our DDI technology.



DDI Podcast



Contact Us



PDF Brochure

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