

## Extension Cable. XC-C8-...PA-DQ-M



- Extension cable with DRIVE-CLiQ protocol communication.
- Extension cable XC-C8-PA-DQ-M connects absolute linear or angular encoders with FeeDat protocol and cable integrated:
  - angular encoder H2AD...D87...C9D.
  - absolute exposed L2AD...C9D.
 to Sinamics/Sinumerik Siemens systems.
- Connection requires additional extension cable with RJ-45 terminating connector.
- Available in 1, 3 & 6 meter lengths.
- Only without armour.
- High IP against contamination, it can be installed in the cabinet or externally.

### Characteristics

System resolution	Exposed Linear: 10 or 50 nm D87 Angular: 23 or 25 bits
Operating temperature	0 °C to 60 °C
Storage temperature	-30 °C to +70 °C
Maximum vibration (55 Hz - 2 000 Hz)	100 m/s <sup>2</sup> (acc. to IEC 60068-2-6)
Impact (11 ms)	200 m/s <sup>2</sup> (acc. to IEC-60068-2-27)
IP rating	67
Cable bending radius	≥ 40 mm

### General Specification

Input		Output	
Interface	FeeDat Fast	Interface	DRIVE-CLiQ
Communication Speed	10 MHz	Communication Speed	100 MHz
Power Supply	(5 ± 0.5) Vdc	Connector	M12 male 8-pins
Connector	Round 17-pin F	Power Supply	24 Vdc
Cable Adapter Length	1, 3 & 6 meters *	Maximum Cable Length	Up to 100 m. Depending on CNC model. Consult Siemens documentation.

\* with 1 or 3 meters encoder cable. Encoder cable plus DRIVE-CLiQ extension adapter cable ≤ 9 meters.

## Pin Out

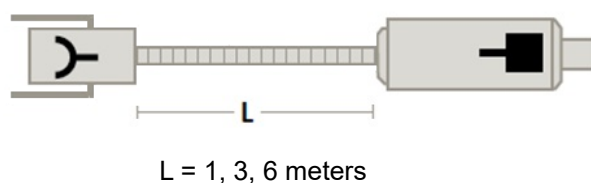
Pin Input	Colour	Signal	Signal	Pin Output
1	Grey	+5 V sense	VCC (24 Vdc)	1
4	Pink	0 V sense	RXP	3
7	Brown	+5 V	RXN	4
8	Green	CLOCK	GND (0 V)	5
9	Red	/CLOCK	TXN	6
10	White	0 V	TXP	7
14	Green	DATA		
17	Yellow	/DATA		
Housing	Shield	Ground		

## Pin Layout

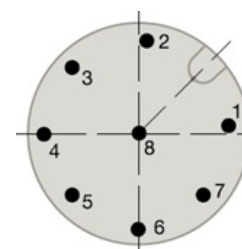


Front view

## Cable Diagram

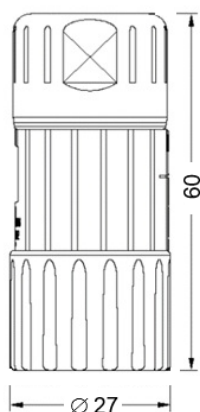


## Pin Layout



Front view

## Lead-in Connector

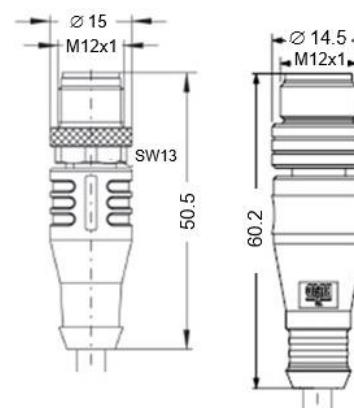


## Cable Specification

<b>Construction</b>	4 x 2 x 0.14 mm <sup>2</sup>
<b>Material</b>	Polyurethane
<b>Ø</b>	6 mm
<b>Bend radius dynamic</b>	≥ 60 mm
<b>Bend radius static</b>	≥ 24 mm
<b>Shield</b>	Single
<b>Lead-in connector (encoder side)</b>	M23 17-pin female, external female, contact arrangement direction P
<b>Terminating connector</b>	M12 8-pin M

## Terminating Connector

Housing dimensions slightly differ for manufacturers



# Feedback Product Data Sheet

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## Related Products

Product	Description
XC-M2-...S-M1	Intermediate extension cable M12 8-pin connectors for DRIVE-CLiQ applications.
XC-M2-...S-RJ2	Extension cable for DRIVE-CLiQ cable adapter (EC-...PA-DQ..-M) or extension adapter (XC-C8-...PA-DQ-M-N). With M12 8-pin female input connector and RJ-45 <b>IP 20</b> terminating connector for DRIVE-CLiQ applications.
XC-M2-...S-RJ6	Extension cable for DRIVE-CLiQ cable adapter (EC-...PA-DQ..-M) or extension adapter (XC-C8-...PA-DQ-M-N). With M12 8-pin female input connector and RJ-45 <b>IP 67</b> terminating connector for DRIVE-CLiQ applications.

## Order Information

XC-C8-(x)PA-DQ-M-N	Where (x) = 1, 3 or 6 meters.
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## Example

Order Code	Description
XC-C8-1PA-DQ-M-N	DRIVE-CLiQ extension adapter of 1 meters, specifications as above, lead-in connector M23 17-pin female, external female, contact arrangement direction P. Terminating connector M12 8-pin male.