

Encoder Cable. EC-...B-C9-F



- Encoder cable for absolute linear or angular encoders with digital protocol interface including models (SSI or BiSS) with also 1 Vpp analog signals.
- Encoder cable EC-...B-C9-F for XC-C8-... extension cables.
- Direct connection for linear or angular encoders with SSI protocol plus 1 Vpp signal output to Siemens SME25 module.
- Twisted pairs for differential signals.
- Dual shield of the analog signals (for SSI and BiSS models with also 1 Vpp analog signals).
- Available in 1, 3, 6 & 9 meter lengths for armour models and 0.5, 1, 2, 3, 5, 6 & 9 meter lengths for unarmoured models.
- Available with or without armour.
- Supply voltage sense link.
- With ferrite core for improved noise immunity.

Pin Out

Pin Input	Colour	Signal	Pin Output
	Green	A	15
	Yellow	/A	16
	Blue	B	12
	Red	/B	13
	Grey	DATA	14
	Pink	/DATA	17
	Black	CLOCK	8
	Violet	/CLOCK	9
	Brown	+5 V	7
	Red-Blue	+5 V sense	1
	White	0 V	10
	Grey-Pink	0 V sense	4
	Internal Shield	Ground	11
	External Shield	Ground	Housing

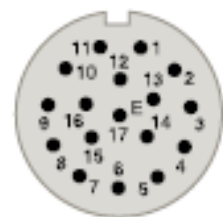
Pin Layout

Cable Diagram

Pin Layout



L = 1, 3, 6, 9 meters armoured
L = 0.5, 1, 2, 3, 5, 6, 9 meters unarmoured



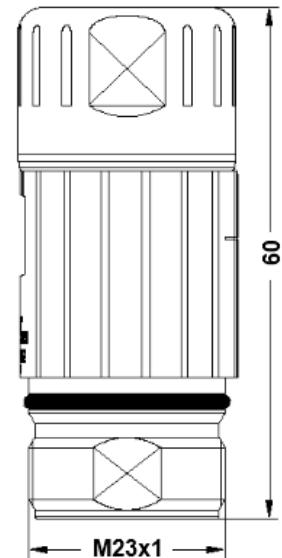
Front view

Lead-in Connector

Cable Specification

Terminating Connector

Construction	4 x 0.09 mm ² + 4 x 0.09 mm ² + 4 x 0.14 mm ²
Material	Polyurethane
Ø without armour	6 mm
Bend radius dynamic	≥ 60 mm
Bend radius static	≥ 24 mm
Ø with armour	10 mm
Bend radius dynamic	≥ 60 mm
Bend radius static	≥ 35 mm
Shield	Single plus dual for 4 wires
Terminating connector	M23 17 pin male, external male, contact arrangement direction E



Order Information

EC-(x)B-C9-F	Where (x) = 1, 3, 6 or 9 meters with armour; (x) = 0.5, 1, 2, 3, 5, 6 or 9 meters without armour indicate "-N" for no armour.
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Example

Order Code	Description
EC-3B-C9-F	Encoder cable of 3 meters, cable type "B" specifications as above and terminating connector M23 17 pin male, external male, contact arrangement E. With armour and ferrite core.
EC-6B-C9-N-F	Encoder cable of 6 meters, cable type "B" specifications as above and terminating connector M23 17 pin male, external male, contact arrangement E. Without armour and with ferrite core.