

Encoder Cable. EC-...C-FN1



- Encoder cable for incremental linear or angular encoders with 1 Vpp or TTL differential signal output.
- Direct connection to Fanuc systems. Positon loop control.
- Twisted pairs for differential signals.
- Available in 1, 3, 4, 5, 6, 9 & 12 meter lengths for armoured models and 1, 3, 6, 9 & 12 meter lengths for unarmoured models.
- Available with or without armour.
- Supply voltage sense link.

Pin Out

Pin Input	Colour	Signal	Pin Output
	Green	A	1
	Yellow	/A	2
	Blue	B	3
	Red	/B	4
	Grey	Io	5
	Pink	/Io	6
	Brown	+5 V	9
	White	0 V	12
	Link to pin 12	0 V sense	14
	Internal Shield	Ground	16
	Link to pin 20	+5 V	18
	Link to pin 9	+5 V sense	20
	External Shield	Ground	Housing

Pin Layout

Cable Diagram

Pin Layout



Front view

L = 1, 3, 4, 5, 6, 9, 12 meters armoured

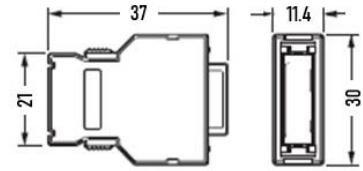
L = 1, 3, 6, 9, 12 meters unarmoured

Lead-in Connector

Cable Specification

Construction	2 x 2 x 0.09 mm ² + 2 x 2 x 0.14 mm ²
Material	Polyurethane
Ø without armour	6.2 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	Dual
Terminating connector	FANUC 15 way female

Terminating Connector



Order Information

EC-(x)C-FN1	Where (x) = 1, 3, 4, 5, 6, 9 or 12 meters with armour; (x) = 1, 3, 6, 9 or 12 meters without armour, indicate "-N" for no armour.
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Example

Order Code	Description
EC-3C-FN1	Encoder cable of 1 meter, cable type "C" specifications as above. Terminating connector FANUC 15 way female and with armour.
EC-1C-FN1-N	Encoder cable of 1 meter, cable type "C" specifications as above. Terminating connector FANUC 15 way female and without armour.