

## Encoder Cable. EC-...C-FN2



- Encoder cable for incremental linear or angular encoders with 1 Vpp or TTL differential signal output.
- Direct connection to Fanuc systems. Speed loop control.
- Twisted pairs for differential signals.
- Dual shield on four wires.
- Available in 1, 3, 6, 9 & 12 meter lengths.
- Available with or without armour.
- Supply voltage sense link.

### Pin Out

Pin Input	Colour	Signal	Pin Output
	Green	A	5
	Yellow	/A	6
	Blue	B	7
	Red	/B	8
	Grey	Io	1
	Pink	/Io	2
	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

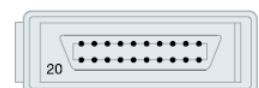
### Pin Layout

### Cable Diagram

### Pin Layout



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



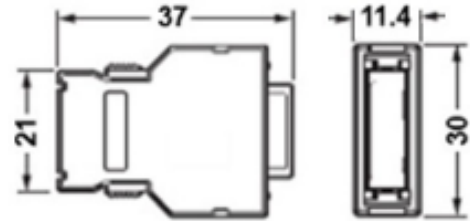
Front view

## Lead-in Connector

## Cable Specification

## Terminating Connector

<b>Construction</b>	2 x 2 x 0.09 mm <sup>2</sup> + 2 x 2 x 0.14 mm <sup>2</sup>
<b>Material</b>	Polyurethane
<b>Ø without armour</b>	6.2 mm
<b>Bend radius dynamic</b>	≥ 60 mm
<b>Bend radius static</b>	≥ 24 mm
<b>Ø with armour</b>	10 mm
<b>Bend radius dynamic</b>	≥ 60 mm
<b>Bend radius static</b>	≥ 35 mm
<b>Shield</b>	Dual
<b>Terminating connector</b>	FANUC 15 way female



## Order Information

EC-(x)C-FN2      Where (x) = 1, 3, 6, 9 or 12 meters; indicate "-N" for no armour.

## Example

Order Code	Description
EC-3C-FN2	Encoder cable of 3 meters, cable type "C" specifications as above. Terminating connector FANUC 15 way female, with armour.
EC-1C-FN2-N	Encoder cable of 1 meter, cable type "C" specifications as above. Terminating connector FANUC 15 way female, without armour.