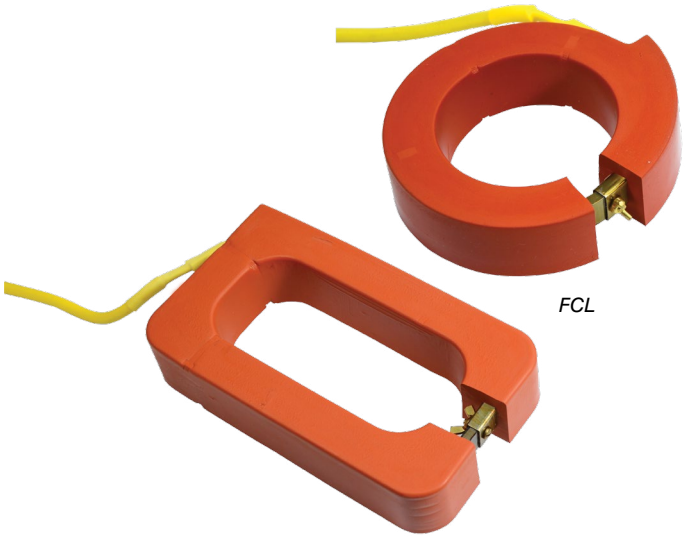
Flexible Current Transformer, 5 Amp or Voltage Output

FCL Series



FCL

SPECIFICATIONS

15 Month Warranty

Agency Approvals	cURus, ANSI/IEEE 57.13, CE, RoHS
INPUTS	
Frequency Range	50 - 400 Hz
Leads	12 ft. (3.7 m)
ACCURACY	
Accuracy	Varies at full scale (see Ordering Information)
OUTPUTS	
Output at Rated Current	5A, 0.333VAC, or 1VAC
MECHANICAL	
Insulation	600VAC
ENVIRONMENTAL	
Installation Category III	Pollution Degree 2
Operating Temp Range	-45° to 55°C (-49° to 131°F)
Storage Temp Range	-45° to 65°C (-49° to 149°F)

Flexible Split-core Design for Large Size Applications

FEATURES

- *Multiple sizes to fit your applications*
- *Flexible core design...easy installation*
- *Output available in 5A, 1V, or 0.333V...compatible with existing systems*

Flexible core twists open for easier fit around wires

DESCRIPTION

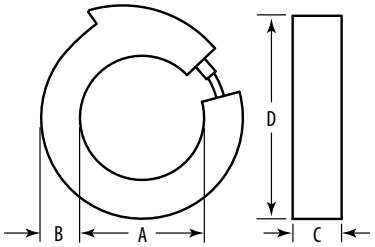
FCL round and rectangular flexible CTs are designed for large bus and large wire applications where standard sized CTs will not fit.

APPLICATIONS

- *Data logging*
- *Recording*
- *Power monitoring*
- *Energy management*
- *Alternative energy monitoring*
- *Cost allocation*

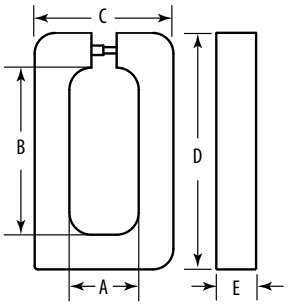
DIMENSIONAL DRAWINGS

Round Flexible Core



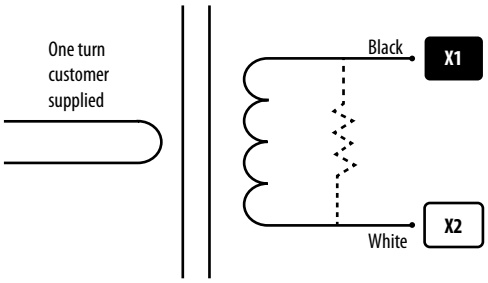
	-4 Model	-6 Model	-8 Model	-11 Model	-18 Model
A	4.0" (101 mm)	6.0" (152 mm)	8.0" (203 mm)	11.0" (279 mm)	18.0" (457 mm)
B	1.25" (32 mm)	1.25" (32 mm)	1.25" (32 mm)	1.25" (32 mm)	1.25" (32 mm)
C	1.5" (38 mm)	1.5" (38 mm)	1.5" (38 mm)	1.5" (38 mm)	1.5" (38 mm)
D	6.5" (165 mm)	8.5" (216 mm)	10.5" (267 mm)	13.5" (343 mm)	20.5" (521 mm)

Rectangular Flexible Core



	-R Model	-R411 Model
A	2.75" (70 mm)	4.0" (101 mm)
B	6.6" (168 mm)	11.0" (279 mm)
C	5.5" (140 mm)	6.5" (165 mm)
D	9.4" (240 mm)	13.4" (340 mm)
E	1.5" (38 mm)	1.5" (38 mm)

WIRING EXAMPLE



Notes:
This model uses X1 and X2 the opposite of other models in this catalog.
No resistor on 5A models.

ORDERING INFORMATION

E186575

FCL [ ] / [ ] – [ ]

Current

200 = 200A
250 = 250A
300 = 300A
400 = 400A
500 = 500A
600 = 600A
800 = 800A
1000 = 1000A
1200 = 1200A
1500 = 1500A
1600 = 1600A
2000 = 2000A
2400 = 2400A
2500 = 2500A
3000 = 3000A
3500 = 3500A
4000 = 4000A
5000 = 5000A
6000 = 6000A

Output

5 = 5A
1V = 0-1VAC
0.3V = 0-0.333VAC

I.D.

4 = 5A, Round, 4" (200A-2000A)
6 = 5A, Round, 6" (300A-3000A)
8 = 5A, Round, 8" (1000A-5000A)
11 = 5A, Round, 11" (1500A-6000A)
18 = 5A, Round, 18" (2000A-6000A)
R = 5A, Rectangular, 2.75" x 6.625" (300A-4000A)
R411 = 5A, Rectangular, 4" x 11" (1500A-6000A)
4 = 1V, Round, 4" (200A-1000A)
6 = 1V, Round, 6" (500A-2000A)
8 = 1V, Round, 8" (1000A-2000)
11 = 1V, Round, 11" (1500A-3500A)
18 = 1V, Round, 18" (2000A-6000A)
R = 1V, Rectangular, 2.75" x 6.625" (500A-1600A)
R411 = 1V, Rectangular, 4" x 11" (1000A-2500A)
4 = 0.3V, Round, 4" (200A-1500A)
6 = 0.3V, Round, 6" (500A-4000A)
8 = 0.3V, Round, 8" (1000-6000A)
11 = 0.3V, Round, 11" (1500A-6000A)
18 = 0.3V, Round, 18" (2000A-6000A)
R = 0.3V, Rectangular, 2.75" x 6.625" (500A-4000A)
R411 = 0.3V, Rectangular, 4" x 11" (1000A-6000A)

Example:

FCL **2000** / **5** – **11**

2000A CT with 11" inside diameter and 5A output

Accuracy at Full Scale

200:5 thru 300:5.....4%
400:5 thru 500:5.....3%
600:5 thru 800:5.....2%
1000:5 thru 6000:5.....1%
For 1VAC and 0.333VAC....1% at full scale