



TE's Raychem FLEXIBLE ROGOWSKI COILS (RFRC) LOW-POWER PASSIVE CURRENT SENSORS FOR MEDIUM VOLTAGE NETWORK

KEY FEATURES

- High accuracy class suitable for measuring and signaling tasks
- Tested according to the latest IEC-61869-10
- Split-core Rogowski coils
- No need for auxiliary power supply
- Can be used for both measurement and protection
- High safety due to low power and output voltage
- Quick and easy installation suitable for retrofit on medium voltage network

TE's Raychem Flexible Rogowski Coils RFRC are low-power passive current sensors based on Rogowski coil technology. They require no external power supply or battery and have no ferro resonance.

TE's RFRC are very compact, light weight and cost effective. They are suitable for both new installation and retrofit solution in medium voltage network.

TE's Rogowski coils have linear volt-current characteristics because the wire is wrapped around a nonmagnetic core. They achieve high accuracy and the same sensors can be used for both protection and measuring. They can produce an output voltage that is a scaled time derivative $di(t)/dt$ of the primary current.

TE's Rogowski coils have a very wide range of applications than conventional current sensors because of their linear characteristics and they do not saturate. They can be applied in systems with high fault currents.

TE's current sensors are suitable for measurement and protection applications. They are calibrated in the factory and have no need for any further adjustment on site.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.

TE's Raychem Flexible Rogowski Coils RFRC

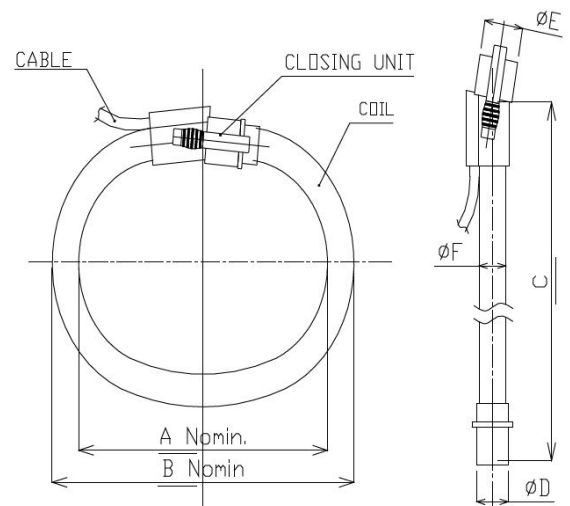


KEY PRODUCT SPECIFICATIONS	REQUIREMENTS
General Data	
Thermoplastic Rubber, Flame Retardant	UL 94 V-O rated*
Environmental Conditions	
Working Temperature	-20°C to 70°C
Relative Humidity	85% without condensation
International Protection Coding	IP 67
Pollution Degree	2
Maximum Altitude	2000 m
Electrical Data	
Maximum Measurable Current	100 kA** @ 50/60 Hz
Internal Resistance	30 Ohms/400 mm
Accuracy	±0.5%
Linearity	±0.2
Output Signal (Sinusoidal Waveform)	100mV/1000A @ 50 Hz; 120mV/1000A @ 60 Hz***
Frequency Range	20 Hz - 5 kHz
Temperature Sensitivity	±0.1% from -20°C to 70°C
Safety	
Over Voltage Category (IEC 61010-1)	CAT III
Operating Voltage (max.)	1000V @ 50/60 Hz
Hi Pot Test (Transducer & Output Cable)	7400Vac @ 50/60 Hz for one minute

* Coil and output cable are shielded.
 ** Other values on request.
 *** Rated at 1000A @ 50 Hz.



RSTI with Capacitive Voltage Sensor and Rogowski Current Sensor



Standard Dimensions

- A = Coil diameter (mm)
- B = Coil external diameter (mm)
- C = Coil length (mm)
- D = Cap coupling cross section = 17 mm
- E = Cap coupling cross section = 20 mm
- F = Coil cross section = 12 mm

ORDER INFORMATION				
Product Description	Product Number	Max. Coil Diameter (mm) A	Coil External Diameter (mm) B	Coil Length (mm) C
RFRC-68-0.5-2MS	EN5998-000	68	92	250

Description: TE's Raychem Flexible Rogowski Coil RFRC; Output 100mV/kA @ 50 Hz; Accuracy ±0.5%; Cable Length = 2 m.
 Note: Other dimensions are available on request.

te.com/energy

©2019 TE Connectivity. All Rights Reserved. EPP-3285-03/19-EN

Raychem, TE Connectivity and the TE connectivity (logo) are trademarks of the TE Connectivity Ltd. family of companies. Other logos, product and Company names mentioned herein may be trademarks of their respective owners. While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this brochure are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications

FOR MORE INFORMATION: TE Technical Support Centers

- USA: + 1 800 327 6996
- France: + 33 380 583 200
- UK: + 44 0870 870 7500
- Germany: + 49 896 089 903
- Spain: + 34 916 630 400
- Italy: + 39 333 250 0915
- Benelux: + 32 16 508 695
- Canada: + 1 (905) 475-6222
- Mexico: + 52 (0) 55-1106-0800
- Latin/S. America: + 54 (0) 11-4733-2200
- China: + 86 (0) 400-820-6015