

# Medium Voltage Inductive Coupling Units

## MICU 300A

### Features

- High current solution made with high permeability high performance nanocrystalline material avoids saturation problems at high currents.
- Low insertion losses  $-4\text{dB} \pm 2\text{dB}$  (@2-40MHz range).
- More electrical safety: High insulation: 5 kV.
- Compact equipment: BNC connector integrated in the coupler (other connections available under request).



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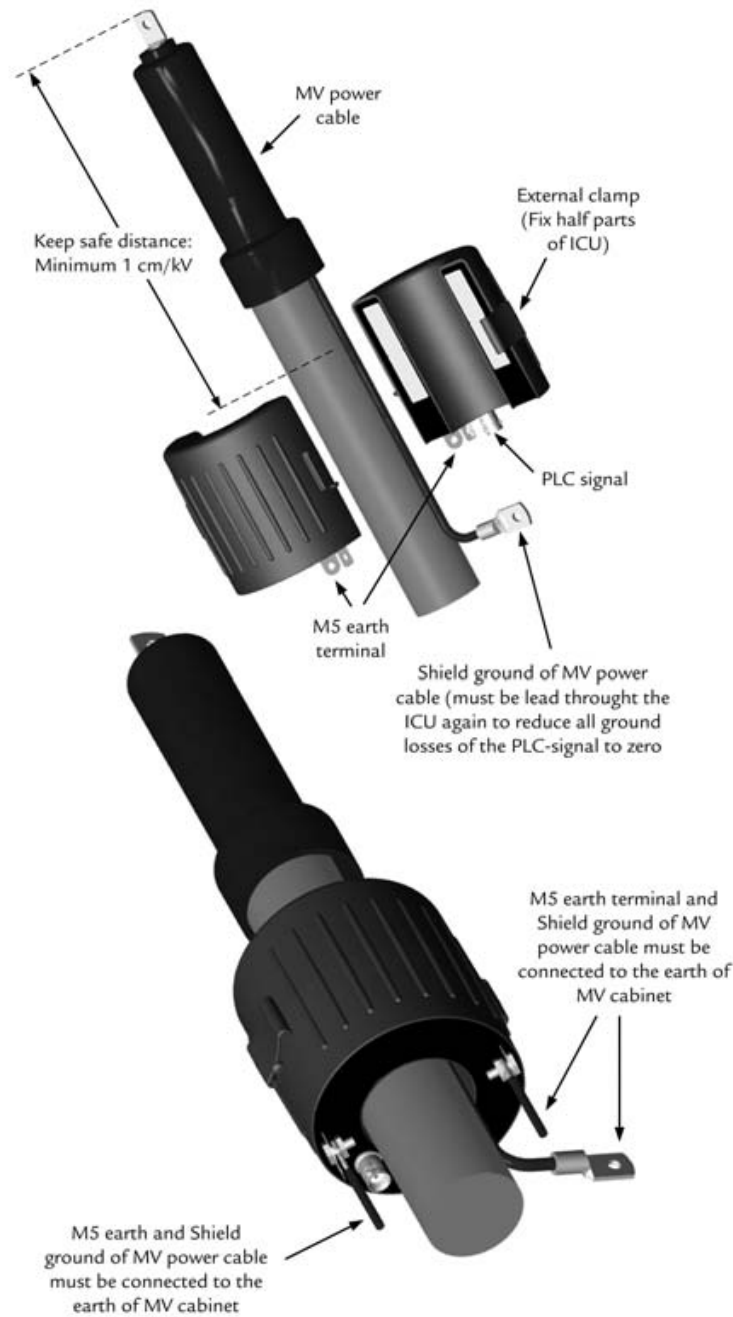
### Electrical parameters

Nominal current	300 A	
Rated Voltage		
Rated AC withstand voltage	Only depends on the insulation level of the cable	
Rated lightning withstand voltage (1.2/50s)		
Insulation resistance		
Partial discharge level at $1.2 U_N$	No discharges possible, coupler is completely at ground potential	
Transmission frequency range and attenuation	$-4\text{dB} \pm 2\text{dB}$ @2 to 40 MHz	
Nominal impedance	Coupling side	20 to 50
	Equipment side	50
Average power in permanence	$> +40$ dBmW	
Harmonic distortion and intermodulation	$< -60$ dB	
Dielectric strength	5 kV	
Working temperature	$-20^\circ\text{C}$ to $60^\circ\text{C}$	
Storage temperature	$-40^\circ\text{C}$ to $85^\circ\text{C}$	
Climatic category	25/100/21 according to IEC 60068-1	
Safety isolation	According to IEC 950	

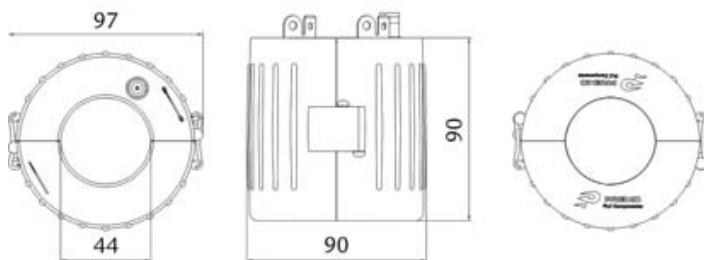
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## Installation



## Dimensions



Dimensions in mm

Overall dimensions	Inner diameter	44 mm
	Height	90 mm
	Height (including ground connector)	< 115 mm
Connection to PLC-modem	Female BNC connector	
Connection to Earth	M5 screw	
Typical installation time	10 minutes	
Operating conditions	Indoor services	