



# Messi & Paoloni srl

Via G. Conti N°1 - 60131 Ancona - Italy  
 Tel. +39 071 2861527 Fax +39 071 2861736  
 Internet: www.messi.it e-mail info@messi.it



TYPE **AC7 PLUS AR100**

## CONSTRUCTION DATA

Inner Conductor	<b>19 x</b>	Ø mm.	<b>Cu</b>	<b>0,38</b>	± 0,01 mm.	→
Dielectric			<b>PEG</b>			→
Physical Expansion Triple Layer		Ø mm.	<b>4,80</b>		± 0,1 mm.	→
Ext. Screen (tape)			<b>CU-POL</b>	My20+23+0	<b>h.19 mm.</b>	
Screening Percentage					<b>100 %</b>	
Number of Wires	<b>Pitch mm. 45</b>		<b>7 x 24 x 0,1 Cu =</b>	<b>Tot. 168</b>		
Second Screen (Braid)			<b>Cu</b>			→
Screening Percentage			<b>81</b>		<b>%</b>	
External Sheath			<b>PVC BLACK</b>			
External Diametre		Ø mm.	<b>6,85</b>		± 0,1 mm.	→
Minimum Bending Radius (one bend)		Outer/Inner		<b>80 / 40</b>		



## ELECTRICAL DATA

Characteristic Impedance Ohm ±				<b>50 ± 3</b>
Capacitance pF/m. ± 2				
Velocity Ratio				<b>%</b>
Attenuation (at 20° C.)	± 2	MHz.	<b>5 dB/100 m.</b>	
		MHz.	<b>50 dB/100 m.</b>	<b>4,9</b>
		MHz.	<b>200 dB/100 m.</b>	<b>10,9</b>
		MHz.	<b>400 dB/100 m.</b>	<b>16,2</b>
		MHz.	<b>800 dB/100 m.</b>	<b>23,8</b>
		MHz.	<b>1000 dB/100 m.</b>	<b>27,2</b>
		MHz.	<b>1750 dB/100 m.</b>	
		MHz.	<b>2050 dB/100 m.</b>	
		MHz.	<b>2150 dB/100 m.</b>	
		MHz.	<b>2400 dB/100 m.</b>	
		MHz.	<b>3000 dB/100 m.</b>	
Structural Return Loss between		30-300 MHz.	<b>dB</b>	<b>&gt; 0</b>
		300-600 MHz.	<b>dB</b>	<b>&gt; 0</b>
		600-900 MHz.	<b>dB</b>	<b>&gt; 0</b>
Screening efficiency		100-300 MHz.	<b>dB</b>	<b>&gt; 0</b>
		300-600 MHz.	<b>dB</b>	<b>&gt; 0</b>
		600-990 MHz.	<b>dB</b>	<b>&gt; 0</b>

Inner conductor resistance Ohm/Km  
 Outer conductor resistance Ohm/Km  
 Sheath Spark Testing kV

STANDARD Packing Type & Metres  
 Other Packings Type & Metres  
 Connectors 'F' Screw Type  
 Connectors 'F' Crimp Type

With reference to Norms CEI 46/13 (Cable TV installations)  
 CEI 12/15 (Cables for centralised systems)  
 EN 50117 (Cable networks)  
 CEI 46/1 (Construction parameters of the cables)

Legend: (\*) AR 100 = m.100 ARIANNA refills  
 B 500 = 500 m. Drums  
 C100 = 100 m. cardboard box  
 BP100 = 100 m. Plastic bobbins