



### Construction:

Inner conductor (mm)	: silvered copper, $\varnothing 0,90 \pm 0,025$ .
Dielectric insulation (mm)	: low density PE, $\varnothing 2,95 \pm 0,10$ .
First braid	: silvered copper, 112 x 0,13. coverage : 98 % ( $\varnothing 3,50$ mm ).
Second braid	: silvered copper, 112 x 0,13. coverage : 97 % ( $\varnothing 4,00$ mm ).
Outer sheath	: non-contaminating PVC, black (RAL 9004), $\varnothing 5,40 \pm 0,10$ .
Marking	: M-17/84 RG 223 MIL-C-17F RG 223 U 50 Ohm.

### Technical data and tests:

Standards	: MIL-C-17F.
Impedance (20° C)	: 50 + 2 Ohm.
Velocity ratio	: 66 %.
Capacitance	: 100 pF/km.
Resistance	: inner conductor : 28 ohm/km; braid : 8 ohm/km.
Tension	: sheath : 3.5 kV.

Attenuation	: dB/100 m				
5 MHz	: 2.6;	500 MHz	: 31.9;	1750 MHz	: 66.9;
10 MHz	: 3.7;	600 MHz	: 35.3;	2150 MHz	: 75.9;
50 MHz	: 9;	800 MHz	: 42.3;	2250 MHz	: 77.7;
100 MHz	: 13;	1000 MHz	: 48.5;	2500 MHz	: 82.5;
200 MHz	: 19.3;	1350 MHz	: 57.4;	2750 MHz	: 87;
300 MHz	: 23.7;	1500 MHz	: 61.3;	3000 MHz	: 91.2.

Structural return loss dB:		Screening effectiveness dB:
30 ÷ 300 MHz > 32;	1000 ÷ 2000 MHz > 19;	100 ÷ 900 MHz > 78;
300 ÷ 600 MHz > 28;	2000 ÷ 3000 MHz > 18.	900 ÷ 2000 MHz > - ;
600 ÷ 1000 MHz > 23;		2000 ÷ 3000 MHz > - .

Temperature range	: -30° C to + 70° C.
Bending radius	: single : 5 x diameter. repeated : 10 x diameter.
Cable weight (kg/km)	: copper 38.5; plastic 21.4; total 59.9.

### Applications:

In general coaxial cables are used for broadband transmission of radio, TV, video and data signals. Available up to GHz-a level, with low attenuation and low signal distortion. This coaxial cable is used for inst. for radio signal transmission being suitable for larger distances. The polyethylene of low dielectric constant enables high-speed signal diffusion, and good flexibility at installation. This cable should be installed only in indoor applications, exceptionally outdoor, only under protection against sunlight.

