HALLEY CABLES

RF 400 LTA

Coaxial Cables

Double screened 50 Ohm RF cable

Construction:

Inner conductor (mm)	: plain copper, ø 2.7.
Dielectric insulation (mm)	: gas injected foam PE, ø 7.25 ± 0.10.
Shield	: aluminium + polyester + aluminium adhesive tape, h. 27. coverage : 100 %.
Braid	: tinned copper, 128 x 0.15. coverage : 70 % (ø 7.95 mm).
Outer sheath	: polyethylene, black (RAL 9004), ø 10.30 ± 0.18.
Marking	: RF 400 LTA 50 Ohm LOW LOSS CABLE 2,70 / 7,25 / 10,30

Technical data and tests:

Impedance (20° C)	: 50 ± 3 Ohm.	
Velocity ratio	: 84 %.	
Capacitance	: 80 pF/km.	
Resistance	: inner conductor	: 3.2 ohm/km;
	braid	: 7.5 ohm/km.
Tension	: sheath	: 8.5 kV.

Attenuation	: dB/100 m	Max. power ratings dB			
5 MHz	: 0.9;	500 MHz	: 9;	1750 MHz	: 18.7;
10 MHz	: 1.2;	600 MHz	: 10;	2150 MHz	: 20.6;
50 MHz	: 2.5;	800 MHz	: 11.7;	2250 MHz	: 21.2;
100 MHz	: 3.6;	1000 MHz	: 13.2;	2500 MHz	: 22.6;
200 MHz	: 5.3;	1350 MHz	: 15.8;	2750 MHz	: 23.8;
300 MHz	: 6.7;	1500 MHz	: 16.6;	3000 MHz	: 25.1.

Structural return loss dB:			
30 ÷ 300 MHz	> 29;	1000 ÷ 2000 MHz	> 19;
300 ÷ 600 MHz	> 26;	2000 ÷ 3000 MHz	> 18.
600 ÷ 1000 MHz	> 24;		

Screening effectiveness dB:	
100 ÷ 900 MHz	> 90;
900 ÷ 2000 MHz	> 80;
2000 ÷ 3000 MHz	> 70.

Temperature range	: -40° C to + 75° C.
Bending radius	: single : 5 x diameter. repeated : 10 x diameter.
Cable weight (kg/km)	: copper 74.1; plastic 47.6; total 125.

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.

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