

Coaxial Cable 50 ohm: Tri-Lan 240 [1m]

Coaxial Cable 50 ohm: Tri-Lan 240 [1m]

Code: **E1171_1**

Modern low-loss RF cable up to 6 GHz.

The item E1171_1 - for retail sale of required number of meters

The cable is sold in the quantities:

100m E1171_100,

500m E1171_500.



Close-up

Main features

- low loss (as far as 20% lower than of H155)
- perfect matching (30 dB at 2.4GHz)
- high screening efficiency (90dB at 2.4GHz)

Declaration of RoHS compliance.

Tri-Lan 240 - low-loss cable.

The cable guarantees not only efficient power transmission but also ensures savings on installation cost, in the process of migration from 2.4GHz to 5GHz band (it can work in both bands, so the cabling will not have to be replaced).

The sheath of the cable is made of PE (UV-resistant), so Tri-Lan 240 can be used outdoors.

Specifications

Name	Tri-Lan 240		
Code	E1171		
			tolerance
Copper core			
Diameter	mm	1.4	+/-0.02
Mechanically foamed dielectric			
Outer diameter	mm	3.8	+/- 0.05
Shielding			
Al foil/Polyester/Al foil:	um	12/15/12	
Covering factor	%	100	
CuSn braid:		16x7x0.12	
Covering factor	%	80	
Outer diameter	mm	4.45	
Sheath			
Material		PE	
Outer diameter		6.10	+/-0.10
Color		black	
Electrical parameters			
Impedance	ohm	50	+/-2
Capacitance	pF/m	83	

Coaxial Cable 50 ohm: Tri-Lan 240 [1m]

Wave reduction factor	%	81	
Screening efficiency	dB	>90	
Resistance of the core	ohm/km	11.2	
Resistance of the shielding	ohm/km	12.4	
Other parameters			
Minimum bending radius	mm	30/60	
Weight	kg/km	47	
Working temperature	°C	-40 to +70	

With this cable there can be used all connectors suitable for H-155 cable (working up to 2.4 GHz).
For 5GHz band we recommend the connectors working up to 6 GHz: N-plug

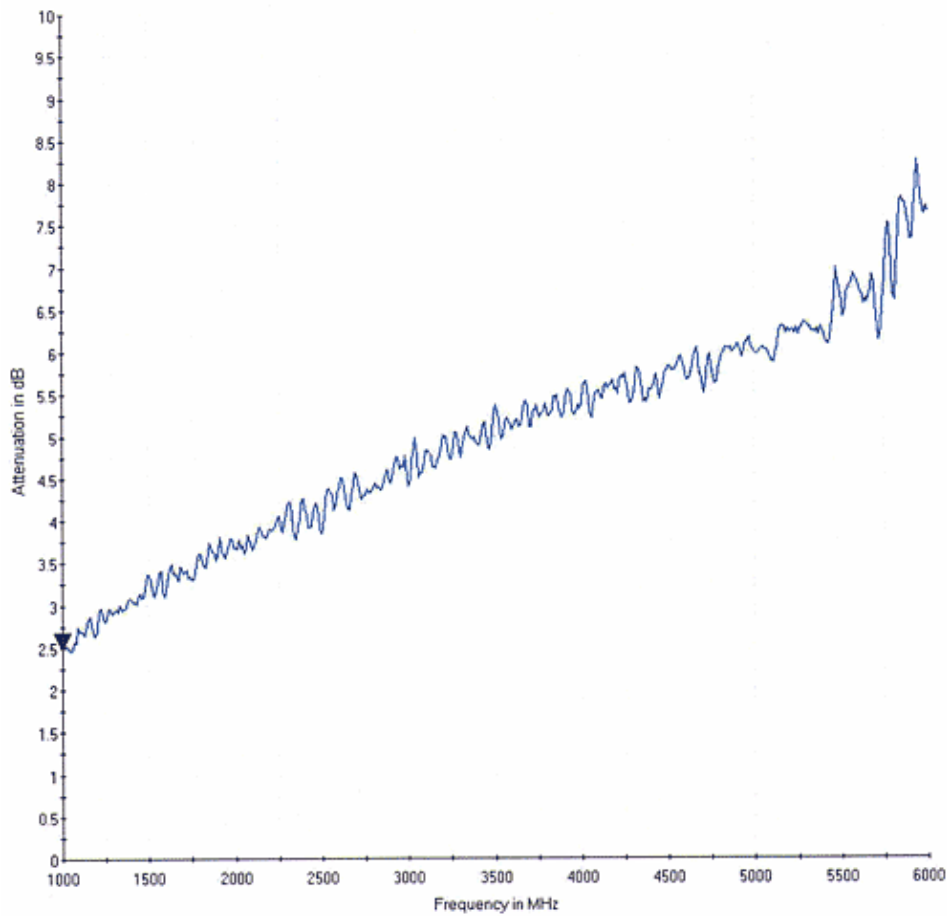
Maximum transmitted power

Frequency [MHz]	Power [kW]
30	1.41
50	1.09
150	0.62
220	0.51
450	0.35
900	0.24
1500	0.19
1800	0.17
2000	0.16
2500	0.14
5800	0.09

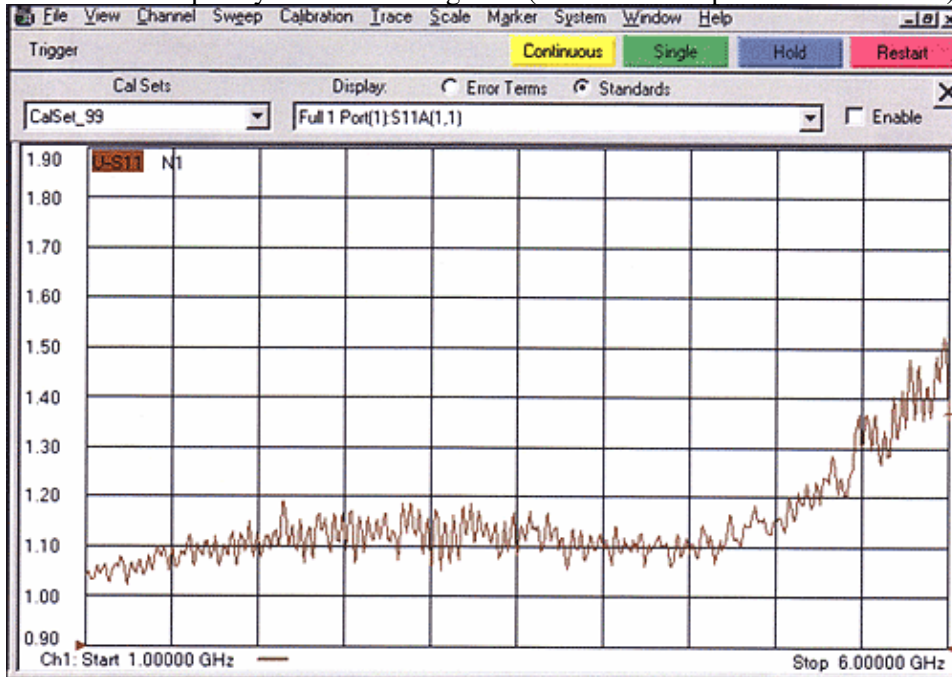
Cable loss at 20C

Frequency [MHz]	Attenuation [dB/100m]
30	4.2
50	5.4
150	9.2
220	11.2
450	16.2
900	23.3
1500	30.7
1800	33.9
2000	35.9
2500	40.6
5800	65.2

Coaxial Cable 50 ohm: Tri-Lan 240 [1m]



Loss versus frequency - 10m cable segment (measurements performed in CLBT).



Matching characteristics (measurements performed in CLBT).