Siechem Coaxial LMR 100A Cable

Application

- ✓ Used for transmission of high-frequency RF signals with low loss.
- ✓ Ensures stable 50 Ω impedance for reliable signal performance.
- ✓ Suitable for data transmission and networking systems.

Product Construction

- ✓ Conductor : Solid Bare Copper Clad Steel.
- ✓ Insulation : Solid Polyethylene.
- ✓ Core Identification : Natural or (as per customer order).
- ✓ Shield : Double Shield Aluminium Tape (Duofoil) - (100% Coverage).
- ✓ Braid : ATC (80% Coverage).
- ✓ Outer sheath : PVC - Black.

Technical Data

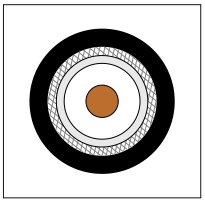
- ✓ Operating temperature : -40°C to +85°C
- ✓ Tensile strength : 6.8Kg
- ✓ Impedance : 50 Ω
- ✓ Nom. Capacitance : 101.1 pF/m
- ✓ Velocity of propagation : 66%
- ✓ Min. Bending radius :
  i) Static : 5 x Cable OD.
  ii) Dynamic : 10 x Cable OD.
- ✓ Flat plate crush : 10 Kg/mm.
- ✓ Cut off Frequency : 90 GHz.
- ✓ Dielectric constant : 2.30 NA.
- ✓ Time Delay : 5.05 ns/m.
- ✓ Inductance : 0.25 µH/m.
- ✓ Shielding Effectiveness : >90 dB.
- ✓ Voltage withstand : 500 V DC.
- ✓ Jacket spark : 2000 Volts RMS.
- ✓ Peak power : 0.6 kW

Features

- ✓ Compact, lightweight design.
- ✓ High flexibility.
- ✓ Low signal attenuation.
- ✓ High EMI protection.
- ✓ Excellent shielding effectiveness.
- ✓ Easy installation.
- ✓ RF connector compatible.
- ✓ High-frequency capability.

Automotive Cables | **LMR 100**

2D View



Approvals	Accreditations	Certifications

**

Part Number	Conductor Construction				Insulation Thickness (Nom)	Dia. Over Insulation (Nom)	Dia. Over Shield (Nom.)	Braid Thickness (Nom.)	Dia. Over Braid (Nom.)	Sheath Thickness (Nom.)	Overall outer Diameter (Max.)	Weight Approx.	Conductor Resistance at 20°C (Nom.)
	Nom. Cross Section area	No. of Core	No. of Strands	Conductor Diameter (Nom.)									
	mm	Nos.	Nos.	mm	mm	mm	mm	mm	mm	mm	mm	Kg/Km	Ω/Km
C997A900004	0.17	1	1	0.46	0.40	1.52	1.65	0.1	2.11	0.38	2.79	14	266

Frequency (MHz)	30	50	150	220	450	900	1500	1800	2000	2500	5800
Max. Attenuation (dB/100m)	12.9	16.7	29.4	35.8	51.9	74.9	98.7	109.0	115.5	130.6	210.3
Ag. Power kW	0.230	0.180	0.100	0.083	0.057	0.039	0.029	0.027	0.025	0.022	0.013

** We have obtained various approvals, accreditations, and certifications - some of which may not be relevant to this catalog.

Catalogue No.
C977

www.siechem.com

All information given are in good faith.Siechem's liability is only to replace the defective portion of cables provided the same is mutually established as manufacturing defects within the guarantee period as agreed in writing and Siechem shall not be liable for any compensation or damages. Siechem reserves the right to revise any of the above specifications without prior intimation. Subject to Chennai Jurisdiction.