Siechem
Wires & Cables

Siechem Automotive SieCar RTK-031 Coaxial Cable

Application

- ✓ RTK-031 cable is a special automotive data cable used for high-speed signal transmission and communication between vehicle electronic systems.
- ✓ Connects Electronic Control Unit (ECU) inside vehicles.
- ✓ ADAS system.
- ✓ Connects navigation, audio and multimedia system.

Product Construction

- ✓ Conductor : Annealed Plain Stranded Copper Conductor (EN 13602).
- ✓ Insulation : Foamed Polypropylene (PP)
- ✓ Insulation Colour : Natural
- ✓ Shielded : Aluminium Tape (Duofoil) (AL/PET/AL) (Min. Coverage-100%).
- ✓ Braiding : ATC (90% coverage)
- ✓ Outer Sheath : Polyvinylchloride (PVC) (Lead Free).
- ✓ Sheath Color : Black

Technical Data

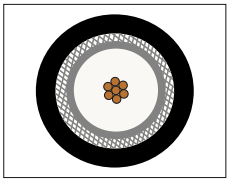
- ✓ Temperature : -40°C to +105°C
- ✓ Max. Conductor Resistance : 52 Ω/km
- ✓ Nom. Capacitance : 85 pF/m, Max : 94pF/m.
- ✓ Characteristic Impedance : 50± 3 Ω
- ✓ Min Velocity of propagation : 75 %
- ✓ Flammability : Complies as per IEC 60332-1
- ✓ Max. Voltage standing wave Ratio (VSWR) :
  - (i) 1-3000 MHz : 1.30
  - (ii) 3000-6000 MHz : 1.50
- ✓ Nom. Bending radius :
  - (i) 5 x cable OD (Single)
  - (ii) 15 x cable OD (Multiple)
- ✓ Pull force (Min/Max) :
  - (i) Conductor to insulation : 1.36/4.53 kgF
  - (ii) Braid/Jacket : 2.99/7.03 kgF

Features

- ✓ High-speed data transmission.
- ✓ Reduces electromagnetic interference (EMI).
- ✓ Resistant to vibration, heat and mechanical stress in vehicles.
- ✓ Suitable for harsh automotive environments.

Automotive Cables RTK-031

2D View



Approvals	Accreditations	Certifications

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Part Number	Conductor Construction					Insulation wall thickness (Nom)	Core Diameter (Nom)	Nom. Braiding Wire Dia	Outer Sheath Thickness Min/Nom	Nom. Overall Diameter	Approx. Cable Weight	Max. Conductor Resistance at 20°C
	No. of Core	Nominal Cross-Section	No. of Strand	Strands Wire (Max)	Conductor Diameter (Max.)							
	Nos.	Sq.mm	Nos.	mm	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
B949S710004	1	0.4	7	0.27	0.82	0.65	2.1 ± 0.1	(16x7) 0.10	0.16/0.35	3.3 ± 0.2	18.5	52

Freqency (MHz)	100	200	400	500	1000	1500	2000	2500	3000	4000	5600	6000
Attenuation (dB/100m) Nom.	17.08	23.34	33.40	37.68	53.94	66.71	77.60	87.60	97.17	114.37	142.47	150.06
Attenuation (dB/100m) Max.	17.93	24.51	35.07	39.56	56.64	70.05	81.48	91.98	102.03	120.09	149.59	157.56

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

Catalogue No
B949S

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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.