

**Siechem Automotive SieCar 105-302-3 Data Cable**

**Application**

- ✓ An automotive communication cable used for signal and data transmission between electronic systems inside vehicles.
- ✓ It is mainly used for low-speed automotive communication networks.
- ✓ Used to connect vehicle sensors and actuators to control modules.
- ✓ Supports communication networks like CAN Bus & LIN Bus.
- ✓ Used for monitoring and diagnostic communication within the vehicle system.

**Product Construction**

- ✓ Conductor : Annealed Bare Stranded Copper Conductor (EN 13602).
- ✓ Insulation : Foamed PP, Natural
- ✓ Shielding : Aluminium mylar tape (AL/PP/AL) (100% coverage).
- ✓ Braiding : ATC (90% coverage), Cu ETP acc.to EN13602
- ✓ Sheath : Lead Free PVC, black or as per Customer Order.

**Technical Data**

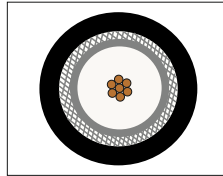
- ✓ Temperature : -40°C to + 105°C (3000hrs)
- ✓ Max. Operating Voltage : 60V (DC)
- ✓ Max. Capacitance @ 1 kHz : 92 pF/m (Core-Core)
- ✓ Characteristic Impedance : 50 ± 3Ω
- ✓ Nom. Velocity Ratio : 78%
- ✓ Min. Bending radius : 5 x Cable OD (Single)  
15 x Cable OD (Multiple)
- ✓ Stripping force :  
(i) Conductor to core : 10 - 30 N  
(ii) Shield to sheath : 8 - 25 N
- ✓ Velocity of propagation ≈ 60% of speed of light.

**Features**

- ✓ Reduces electromagnetic interference (EMI).
- ✓ Easy to install.
- ✓ Operates in harsh automotive environments.
- ✓ Less susceptible to noise interference compare to twisted pair.
- ✓ Resistant to heavy, vibration and mechanical stress.
- ✓ Reduce Vehicle wiring weight core.



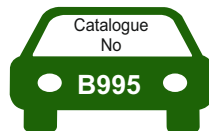
**2D View**



Part Number	Conductor Construction				Insulation Thickness (Nom)	Diameter Over Insulation (Nom)	Braiding Wire Diameter (Nom)	Diameter Over Braiding (Nom)	Outer Sheath Thickness (Nom)	Overall diameter (Nom)	Weight Approx.	Conductor Resistance at 20°C
	Size	No. of Strands	Strand dia Nom.	Conductor Diameter Nom.								
	Sq.mm	Nos.	mm	mm	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
B995710004	0.40	7	0.27	0.81	0.65	2.10(+0.05,-0.10)	(16x7) 0.10	2.7	0.35	3.3±0.20	18	48.5

Frequency (GHz)	0.2	0.4	0.6	0.8	1.0	1.2	1.5	1.8	2.0	2.2
Attenuation (dB/100m) Nom.	21.1	30.3	37.0	43.7	48.9	53.6	60.5	66.3	70.5	74.0
Frequency (GHz)	2.5	2.8	3.0	3.5	4.0	4.5	5.0	5.5	5.6	6.0
Attenuation (dB/100m) Nom.	79.7	84.4	88.1	96.6	104.2	112.3	120.4	127.8	129.3	134.9

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



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