

**Siechem Automotive SieCar 105-566 Cable**

**Application**

- ✓ It is an automotive high-speed data cable used in vehicles for reliable communication between electronic system and control units.
- ✓ ADAS System.
- ✓ Connects multimedia display, navigation system and audio units.
- ✓ It transmit data between vehicles communication modules and sensors.

**Product Construction**

- ✓ Conductor : Annealed Tinned Flexible Copper Conductor, (EN 13602).
- ✓ Insulation : Foamed PP.
- ✓ Core Identification : Green, Red, Blue & Black.
- ✓ Shielding : Aluminium Mylar Tape (PETP/AL) (100% coverage) .
- ✓ Braiding : ATC (90% coverage).
- ✓ Sheath : PVC, Black.

**Technical Data**

- ✓ Temperature : -40°C to + 105°C (3000 hrs)
- ✓ Test Voltage : 1 kV (AC).
- ✓ Max. Operating Voltage : 60V (DC)
- ✓ Mutual Capacitance 1 kHz : < 60 pF/m
- ✓ Characteristic Impedance : 90 ± 15Ω (core-core)
- ✓ Intra pair Skews & Inter pair skew : ≤ 250 ps/10m
- ✓ Shielding effectiveness : ≥ 55 dB at 20MHz  
≥ 40 dB at 1GHz
- ✓ Bending radius : 3 x Cable OD (Single)  
10 x Cable OD (Multiple)
- ✓ Velocity of propagation ≈ 70% of speed of light

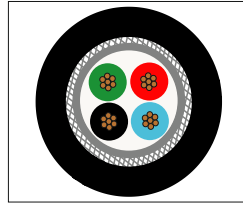
**Features**

- ✓ Less susceptible to noise interference compare to twisted pair.
- ✓ High speed data transmission.
- ✓ Wide temperature range.
- ✓ High durability and flexibility.

Automotive Cables

SieCar 105-566

**2D View**



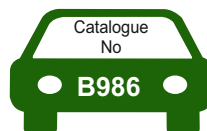
**Approvals    Accreditations    Certifications**



Part Number	Conductor Construction				Insulation Thickness (Nom)	Core Diameter (Nom.)	Laid Up Diameter (Nom)	Shielding (Nom)	Braiding wire dia (Nom)	Dia over Braiding (Nom)	Outer Sheath Thickness (Min/Nom)	Overall Diameter (Nom)	Weight Approx.	Conductor Resistance at 20°C (Max)
	No. of Wire x Size	No. of Strands	Strand dia Nom.	Conductor Diameter (Max)										
B9860604	Nos x Sq.mm	Nos.	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
	4 x 0.5	19	0.182	0.92	0.40	1.70 ± 0.05	4.10 ± 0.2	0.035	(16x10) 0.10	4.6±0.2	0.50/0.70	6.0 ± 0.20	54	39

Frequency (MHz)	1	10	50	100	400	500	1000
Max Attenuation (dB/100m) at 20°C	3	10	18	25	52	58	92
Max Attenuation (dB/100m) at 105°C	3	11	21	29	62	69	110
Max Attenuation after 3000h ageing test at 105°C at 20°C	3	10	19	26	56	63	100

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



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