

Siechem Automotive SieCar 105-535 FL9YBCY Cable

Application

- ✓ An automotive cable used in vehicles for reliable communication between electronic components and control systems.
- ✓ Sensor and monitoring systems.
- ✓ suitable for vehicles wiring harness where cables must bend and fit in small spaces.
- ✓ Operator in harsh automotive environment with wide temperature range.

Product Construction

- ✓ Conductor : Annealed Tinned Stranded Flexible Coppe Conductor (EN 13602).
- ✓ Insulation : Polypropylene (PP) Class B 105°C (ISO 6722-1).
- ✓ Core identification : Brown, Green, Orange, Blue.
- ✓ Shielding : PET Aluminium Mylar Tape (Aluminium outside), (100% Coverage).
- ✓ Braiding : ATC (92% coverage).
- ✓ Sheath : Lead Free PVC, Black.

Technical Data

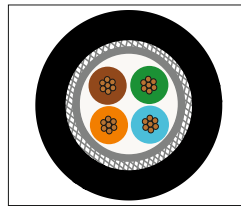
- ✓ Temperature : -40°C to +105°C (3000hrs).
- ✓ Test Voltage : 1 kV (AC).
- ✓ Operating Voltage : 60 V (DC).
- ✓ Capacitance at 1 kHz : ≤ 55 pF/m (Core to Core).
- ✓ Characteristic Impedance : 100 ± 6 Ω.
- ✓ Intra Pair Skew & Inter Pair Skew : ≤ 250 ps/10m.
- ✓ Min. Bending Radius :
 - (i) Single : 3 x Cable OD.
 - (ii) Multiple : 10 x Cable OD.
- ✓ Min. Shielding Effectiveness :
 - (i) at 20 MHz : ≥ 55 dB.
 - (ii) 20 MHz to 1 GHz : ≥ 40 dB.
- ✓ Velocity of propagation : 60% - 70% of speed of light
- ✓ FL : Automotive Cable.
- ✓ 9Y : Polypropylene.
- ✓ B : Foil Screen.
- ✓ C : Braiding.
- ✓ Y : Lead Free PVC.

Features

- ✓ Flexible and light weight.
- ✓ High durability.
- ✓ Low electromagnetic interference.

Automotive Cables **SieCar 105-535**

2D View

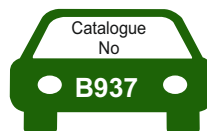


Part Number	Conductor Construction				Insulation Thickness (Nom)	Core Diameter (Nom)	Laidup Diameter (Nom)	Shielding (Nom)	Braiding wire dia (Nom)	Diameter Over Braiding (Nom)	Outer Sheath Thickness (Nom)	Overall Diameter (Nom)	Weight Approx.	Max. Conductor Resistance at 20°C
	No.of Core x Size	No. of Strands	Strand dia Nom.	Conductor Diameter Nom.										
B937A2604	NosxSq.mm	Nos.	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
	4 x 0.14	7	0.16	0.48	0.36	1.20 ± 0.05	2.9 ± 0.2	0.035	(16x8) 0.10	3.40 ± 0.20	0.60	4.60 ± 0.20	34	125

Note : Brown - RAL 8003, Green - RAL 6018, Orange - RAL 2003 & Blue - RAL 5015

Frequency (MHz)	1	10	50	100	400	500	1000
Max Attenuation (dB/100m) at 20°C	4	10	23	33	71	81	124
Max Attenuation (dB/100m) at 105°C	5	13	28	40	86	98	150
Max. Attenuation (dB/100m)after 3000h ageing test	7	17	38	54	108	122	180

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



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