

Siechem Automotive SieCar 125-546-V Data Cable

Application

- ✓ An automotive Ethernet twisted - pair cable used in modern vehicles for high-speed data communication between electronic system.
- ✓ It support bidirectional data transmission upto 100Mbps using single twisted pair Ethernet.
- ✓ Used in radar, sensors and camera system that require high-speed data transfer.
- ✓ Transfer video data between cameras and central processing units.
- ✓ Support communication between vehicles and external infrastructure intelligent transport systems.

Product Construction

- ✓ Conductor : Annealed Stranded Tinned Copper Conductor (EN 13602).
- ✓ Insulation : PP.
- ✓ Core identification : Green & White (Twisted pair).
- ✓ Separator : PP foil.
- ✓ Sheath : TPE-S Black.

Technical Data

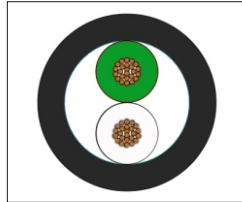
- ✓ Operating Temperature : -40°C to + 125°C (3000hrs)
- ✓ Test Voltage : 1 kV (AC)
- ✓ Max. operating Voltage : 60V (DC)
- ✓ Characteristic Impedance : 100 ± 10 Ω
- ✓ Bending radius : 5 x Cable OD (Single)
15 x Cable OD (Multiple)
- ✓ Velocity of propagation ≈ 68% of speed of light
- ✓ Max. Thermal overload (6hrs) : +155°C.

Features

- ✓ Supports High Bandwidth Levels.
- ✓ Easy to Install.
- ✓ Less susceptible to noise interference compare to twisted pair.
- ✓ Highly resistant to EMI.
- ✓ High-speed data transmission.
- ✓ Low insertion loss.

Automotive Cables SieCar 125-546-V

2D View



Approvals Accreditations Certifications



Part Number	Conductor Construction				Insulation Thickness (Nom.)	Insulation Core Diameter (Nom)	Laidup (Nom)	Sheath Thickness (Min/Nom)	Overall Diameter (Nom)	Weight Approx.	Conductor Resistance at 20°C (Max)
	No. of Core x Size	No. of Strands	Strand dia (Nom)	Conductor Diameter (Nom)							
	Nos x Sq.mm	Nos.	mm	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
C0890502	2 x 0.35	7	0.254	0.76	0.25	1.26 ± 0.03	2.6 ± 0.2	0.5/0.70	4.0 ± 0.15	21	55.5

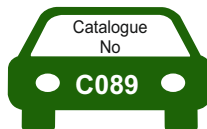
Note : XX* : Please add last two digits in the part number as per the colour code given hereunder replacing XX while ordering.

Red - 01	Yellow - 02	Blue - 03	Black - 04	Green - 05	Yellow-Green - 06	Grey - 07	Brown - 08	White - 09	Orange - 10	Violet - 11
Chocolate - 12	Tan - 13	Charcoal - 14	LT Blue - 15	DK Grey - 16	LT Green - 17	DK Green - 18	DK Blue - 19	Purple - 20	Pink - 21	

Frequency (MHz)	1	10	20	33	66
Insertion loss (dB/m) Nom.	0.02	0.05	-	0.10	0.14
Insertion loss (dB/m) Max.	0.06	0.16	-	0.31	0.45
Return loss (dB) Min.	20	-	20	-	14.8

Frequency (MHz)	1	50	200
Min. Longitudinal Conversion Transfer loss (dB)(LCTL)	46	46	34
Min. Longitudinal Conversion loss (dB) (LCL)	46	46	34

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



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