

DataCELL J1939

Cable Specifications

Type	Part Number	Construction
TF	FJ1939182-001	18/2 Shielded with Bare Copper Drain Outside Shield
TF	FJ1939182-005	18/2 Shielded with Tinned Copper Drain Inside Shield
TF	FJ1939202-001	20/2 Shielded with Bare Copper Drain Outside Shield
CR	FJ1939182-002	18/2 Shielded with Bare Copper Drain Outside Shield
CR	FJ1939202-002	20/2 Shielded with Bare Copper Drain Outside Shield

SAE J-1939/11 SPECIFICATION

	20 AWG			18 AWG		
	Min.	Nom.	Max.	Min.	Nom.	Max.
No. of Pairs	One Twisted Pair			One Twisted Pair		
AWG	20 AWG			18 AWG		
Metric	0.5 mm 2			0.8 mm 2		
Insulation						
Inner Conductor Diameter	0.088" 2.23mm		0.12" 3.05mm	0.098" 2.5mm		0.138" 3.5mm
Shield						
	Shielded Twisted Pair			Shielded Twisted Pair		
Mechanical						
Overall Outer Diameter	0.236" 6.0mm		0.335" 8.5mm	0.335" 8.5mm		0.443" 11mm
Operating Temperature Range	125°C			125°C		
Min. Installed Bending Radius	4x cable diameter 90° bend without performance or physical degradation					
Electrical						
Specific Line Delay	Vp 67%			Vp 67%		
			5nS/M			5nS/M
Impedance	108Ω	120Ω	130Ω	108Ω	120Ω	130Ω
Nom. Capacitance Conductor to Conductor	0 pF/ft.	12 pF/ft.	23 pF/ft.	0 pF/ft.	12 pF/ft.	23 pF/ft.
Nom. Capacitance Conductor to Other Conductor and Shield	0 pF/ft.	40 pF/ft.	75 pF/ft.	0 pF/ft.	40 pF/ft.	75 pF/ft.
	0 pF/ft.	21 pF/ft.	34 pF/ft.	0 pF/ft.	21 pF/ft.	34 pF/ft.
	0 pF/ft.	70 pF/ft.	110 pF/ft.	0 pF/ft.	70 pF/ft.	110 pF/ft.
Resistance mΩ/M @ 20°C	0	25	50	0	25	50
DC Resistance mΩ/M @ 20°C		200	225		200	225