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Registration No. CNAS L4194
Accreditation Criteria: ISO/IEC 17025:2017 and relevant requirements of CNAS
Effective Date: 2024-10-29 Expiry Date: 2030-11-18

SCHEDULE 3 ACCREDITED TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
1		1	Visual inspection	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.1.8		2024-09-14
		2	Circuit Continuity Monitoring	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.1.9		2024-09-14
		3	Terminal to Terminal Engage/Disengage Force	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.2.1		2024-09-14
		4	Terminal Bend Resistance	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.2.2		2024-09-14
		5	Dry Circuit Resistance	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.3.1		2024-09-14
		6	Voltage Drop	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.3.2		2024-09-14
		7	Maximum Test	Performance Specification for Automotive Electrical Connector		2024-09-14



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
			Current Capability	Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.3.3		
		8	Current cycling	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.3.4		2024-09-14
		9	Terminal - Connector Insertion/Retention and Forward Stop Force	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.4.1		2024-09-14
		10	Connector-Connector Mating/Unmating/retention/Lock Deflection Force (non-assist)	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.4.2		2024-09-14
		11	Connector to Connector Mate/Unmate Forces (mechanical assist)	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.4.3		2024-09-14
		12	Polarization Feature Effectiveness	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.4.4		2024-09-14
		13	Miscellaneous Component Engage /Disengage Force	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.4.5		2024-09-14
		14	Vibration/Mechanical Shock	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.4.6	Accredited only for: Vibration below 4T; Mechanical	2024-09-14



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
					shock: load below 25kg	
		15	Connector-to-Connector Audible Click	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.4.7		2024-09-14
		16	Connector Drop Test	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.4.8		2024-09-14
		17	Cavity Damage Susceptibility	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.4.9		2024-09-14
		18	Terminal/Cavity Polarization Test	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.4.10		2024-09-14
		19	Connector Mounting Feature Mechanical Strength	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.4.11		2024-09-14
		20	Mechanical Assist Integrity	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.4.12		2024-09-14
		21	Connector Seal Retention (Unmated Connector)	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.4.13		2024-09-14
		22	Connector Seal Retention (Mated Connector)	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.4.14		2024-09-14
		23	Insulation Resistance	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.5.1		2024-09-14
		24	Thermal Shock	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.6.1	Accredited only for sample size less than	2024-09-14

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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
					51*51*51cm	
		25	Temperature/Humidity Cycling	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.6.2	Accredited only for sample size less than 60*85*80cm	2024-09-14
		26	High Temperature Exposure	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.6.3	Accredited only for sample size less than 60*95*50cm	2024-09-14
		27	Fluid Resistance	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.6.4		2024-09-14
		28	Submersion	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.6.5		2024-09-14
		29	Pressure/Vacuum Leak	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.6.6		2024-09-14
		30	High Pressure Spray	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.6.7	Only for sealed class S3 connectors.	2024-09-14
		31	Header Pin Retention	Performance Specification for Automotive Electrical Connector Systems SAE/USCAR-2 REVISION 8 JUNE 2022 5.7.1		2024-09-14
		32	Visual examination	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.2		2024-09-14



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
		33	Engage/Disengage Cycle	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.3		2024-09-14
		34	Terminal to Terminal Engage/Disengage Force	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.4		2024-09-14
		35	Terminal Bend Resistance	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.5		2024-09-14
		36	Ferrule Retention Force	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.6		2024-09-14
		37	Micro Current Resistance	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.7		2024-09-14
		38	Voltage Drop	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.8		2024-09-14
		39	Current Cycling	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.9		2024-09-14
		40	Shielding Layer Insulation Resisitance	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.10		2024-09-14
		41	Treminal-Connector Insertion/Forward Stop and Retention Force	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.11		2024-09-14



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
		42	Connector-Connector Mating/Unmating/retention/Lock Deflection Force (non-assist)	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.12		2024-09-14
		43	Connector to Connector Mate/Unmate Force (mechanical assist)	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.13		2024-09-14
		44	Connector Anti-fault structure	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.14		2024-09-14
		45	TPA/PLR Insertion/Extraction Force	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.15		2024-09-14
		46	CPA Insertion/Extraction Force	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.16		2024-09-14
		47	Vibration/Mechanical Shock	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.17	Accredited only for: Vibration below 4T; Mechanical shock: load below 25kg	2024-09-14



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
		48	Connector-to-Connector Audible Click	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.18		2024-09-14
		49	Connector Drop Test	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.19		2024-09-14
		50	Cavity Damage Susceptibility	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.20		2024-09-14
		51	Terminal/Cavity Polarization Test	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.21		2024-09-14
		52	Connector Mounting Feature Mechanical Strength	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.22		2024-09-14
		53	Mechanical Assist Strength	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.23		2024-09-14
		54	Connector Seal Retention (Unmated Connector)	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.24		2024-09-14
		55	Connector Seal Retention (Mated Connector)	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.25		2024-09-14
		56	Header Pin Retention	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.26		2024-09-14



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
		57	Insulation Resistance	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.27		2024-09-14
		58	Dielectric Rigidity	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.28		2024-09-14
		59	Thermal Shock	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.29	Accredited only for sample size less than 51*51*51cm	2024-09-14
		60	Temperature/Humidity Cycling	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.30	Accredited only for sample size less than 60*85*80cm	2024-09-14
		61	Thermal Aging	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.31	Accredited only for sample size less than 60*95*50cm	2024-09-14
		62	Fluid Resistance	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.32		2024-09-14
		63	Submersion	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.33		2024-09-14



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
		64	Airtightness	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.34		2024-09-14
		65	High Pressure Spray	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.35		2024-09-14
		66	Salt Spray Test	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.36	Accredited only for sample size less than 90*60*50cm	2024-09-14
		67	Dust Resisittance	Connector used in automobile wire harness and electrical device Part1: Definition、test method and requirement QC/T 1067.1-2017 4.37	Accredited only for sample size less than1m*1m*1m	2024-09-14



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