

ICS 43.080
T 47



中华人民共和国汽车行业标准

PROFESSIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

QC/T 29106-2014

Replaces QC/T 29106-2004

汽车电线束技术条件

Technical Specification of Automobile Wire Harness

Issued on May 06, 2014

Implemented on October 01, 2014

Issued by Ministry of Industry and Information Technology of the People's Republic of China

Announcement

Of the Ministry of Industry and Information Technology of the People's Republic of China

No.32 (2014)

1208 professional standards (including The Self-Adhesive Label Printing Machine and others) (refer to Appendix 1 for Standard No., names, main content and implementation dates) where 471 standards are machinery professional ones, 32 standards are automobile professional ones, 70 standards are shipping professional ones, 111 standards are aviation professional ones, 137 standards are chemical professional ones, 69 standards are metallurgical professional ones, 30 standards are building material professional ones, 14 standards are petrochemical professional ones, 6 standards are non-ferrous metal professional ones, 89 standards are light industry professional ones, 49 standards are textile professional ones, 79 standards are ordnance and civilian product professional ones, 15 standards are nuclear professional ones, 2 standards are electronics professional ones, 34 standards are communications professional ones have been approved by the Ministry of Industry and Information. Samples (refer to Appendix 2 for standard sample catalogue and component content) of 39 non-ferrous metal professional standards (including Ferromanganese-silicon (FeMn68Sil6) and others) have been approved.

The above machinery professional standards are published by China Machine Press, automobile, chemical and non-ferrous metal engineering construction professional standards by China Planning Press, shipping professional standards by China Institute of Marine Technology and Economy, aviation professional standards by China Aero-Polytechnology Establishment, chemical professional standards by Chemical Industry Press, metallurgical professional standards by Metallurgical Industry Press, building material professional standards by China Building Materials Press, petrochemical professional standards by China petrochemical Press, light industry professional standards by China Light Industry Press, textile professional standards by China Standards Press, ordnance and civilian product professional standards by China Ordnance Industrial Standardization Research Institute, nuclear professional standards by Nuclear Industrial Standardization Research Institute, electronics professional standards by Electronic Industrial Standardization Research Institute under Ministry of Industry and Information, communications professional standards by Posts and Telecom Press, communication engineering construction professional standards by Beijing University of Posts and Telecommunications Press respectively.

Appendix: Standard No., Standard Name and Implementation Date of 32 Automotive Industry Standards.

Ministry of Industry and Information Technology of the People's Republic of China

May 6, 2014

Appendix:

Standard No., Standard Name and Implementation Date of 32 Automotive Industry Standards

No.	Standard No.	Standard Name	Replaced Standard	Implementation Date
1	QC/T 231-2014	Specification of kick-starter for motorcycles and mopeds	QC/T 231-1997	2014-10-01
2	QC/T 233-2014	Performance and measurement method for static intensity of motorcycles and mopeds	QC/T 233-1997	2014-10-01
3	QC/T 66-2014	Wet clutch for moped and motorcycle	QC/T 66-1993	2014-10-01
4	QC/T 962-2014	Specifications of painting coat for motorcycles and mopeds		2014-10-01
5	QC/T 680-2014	General technical specifications for voltage regulators for motorcycles and mopeds	QC/T 680-2002	2014-10-01
6	QC/T 963-2014	Drum brake of motorcycles and mopeds wheels		2014-10-01
7	QC/T 234-2014	Specifications of steering bearing for motorcycles and mopeds	QC/T 234-1997	2014-10-01
8	QC/T 964-2014	The strength of the plastic seats and their anchorages for city buses		2014-10-01
9	QC/T 644-2014	Specifications for automobile metal fuel tank	QC/T 644-2000	2014-10-01
10	QC/T 965-2014	Driver of electric rear-view mirrors for motor vehicle		2014-10-01
11	QC/T 966-2014	Coating technical conditions for automotive plastic		2014-10-01
12	QC/T 459-2014	Truck with loading crane	QC/T	2014-10-01
13	QC/T 29106-2014	Technical Specification of Automobile Wire Harness	QC/T 29106-2004	2014-10-01
14	QC/T 198-2014	General technical specification for automotive	QC/T	2014-10-01
15	QC/T 220-2014	Technical specifications for automotive fusible links	QC/T	2014-10-01
16	QC/T 967-2014	Port fuel injector for gasoline engine		2014-10-01
17	QC/T 968-2014	Determination methods of platinum, palladium and rhodium contents in metallic catalytic converters		2014-10-01
18	QC/T 969-2014	Interior trunk release for compartment of a		2014-10-01
19	QC/T 636-2014	Electric Window Regulator Specification For	QC/T	2014-10-01
20	QC/T 970-2014	Passenger car air filter technical specification		2014-10-01
21	QC/T 971-2014	Specifications of Air filter Element for motorcycles and scooters		2014-10-01
22	QC/T 972-2014	Technical requirements and test method for motor vehicle-electronically controlled hydraulic power		2014-10-01

23	QC/T 299.1-2014	Automobile hydraulic steering power pump—Part 1:Technical requirements	QC/T 299-2000	2014-10-01
24	QC/T299.2-2014	Automobile hydraulic steering power pump-Part 2:Test method	QC/T 299-2000	2014-10-01
25	QC/T 563-2014	Performance and Test Methods for Automobile	QC/T	2014-10-01
26	QC/T 29097-2014	The technical specifications of automobile steering gear	QC/T 29097-1992	2014-10-01
27	QC/T 29096-2014	The bench test methods of automobile steering gear	QC/T 29096-1992	2014-10-01
28	QC/T 303-2014	Technical requirements and test methods for motor vehicles oil reservoir	QC/T 303-1999	2014-10-01
29	QC/T 301-2014	Technical requirements and test methods for motor vehicles power cylinder	QC/T 301-1999	2014-10-01
30	QC/T 70-2014	Measurement method of acoustic noise for engines of Motorcycles and Mopeds	QC/T 70-1993	2014-10-01
31	QC/T 226-2014	Specification of brake shoes assembly and brake lining assembly for motorcycles and mopeds	QC/T 226-1997	2014-10-01
32	QC/T 593-2014	Performance requirements and bench test methods of automobile hydraulic proportional valve	QC/T 593-1999	2014-10-01

CONTENTS

Foreword.....	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions.....	6
4 Technical requirements.....	7
5 Test methods.....	8
6 Inspection rules.....	10
7 Marking, packaging, storing and caretaking.....	10
Annex A (Normative) Requirements for pressure welded parts of terminal and conductor and pressure welded juncture cross-sections.....	26
Annex B (Normative) Heat-shrinkable double-wall pipe for automobile wire harness.....	28
Annex C (Normative) Pressure sensitive adhesive tape for automobile wire harness.....	30
Annex D (Normative) Corrugated pipe for automobile wire harness	32

Technical Specification of Automobile Wire Harness

1 SCOPE

This standard specifies the technical requirements, test methods, inspection rules, marking, packaging, storing and caretaking of automobile wire harness (hereinafter referred to as “wire harness”).

This standard applies to all types of vehicle use wire harnesses (single wire included) with nominal voltage of less than 60V.

2 NORMATIVE REFERENCES

The following documents for the application of this document are essential. For dated references, only the edition cited applies. For undated references, the latest edition (including any amendment) applies.

GB/T 2423.1-2008	Environmental testing for electric and electronic products - Part 2: Test methods - Tests A: Cold
GB/T 2423.2-2008	Environmental testing for electric and electronic products - Part 2: Test methods - Tests B: Dry heat
GB/T 2423.17-2008	Environmental testing for electric and electronic products - Part 2: Test method - Test Ka: Salt mist
GB/T 2423.22-2002	Environmental testing for electric and electronic products - Part 2: Test methods Test N: Change of temperature
GB/T 2828.1-2012	Sampling procedures for inspection by attributea-Part1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection
GB/T 4086	Glass Cleaner
GB 8410-2006	Flammability of automotive interior materials
GB 11121	Gasoline engine oils
GB 11122	Diesel engine oils
GB/T 13527.2	Plasticized polyvinyl chloride tubing for electrical insulation
GB 17930	Gasoline for motor vehicles
GB 19147	Automobile diesel fuels
GB/T 25085	Road vehicles—60 V and 600 V single-core cables
GB/T 28046.3-2011	Road vehicles—Environmental conditions and testing for electrical and electronic equipment—Part 3:Mechanical loads
QC/T 238	Storage and preservation for automotive parts
QC/T 349	Plastic fastening belt
QC/T 417.1-2001	Road Vehicles – Connections for On-board Electrical Wiring Harnesses – Part 1: Definitions, Test Methods and General Performance Requirements (the Automobile Part)
QC/T 417.3	Road Vehicles-Connections for On-board Electrical Wiring Harnesses- Part 3: Tabs for Single-pole Connections- Dimensions and Specific Requirements
QC/T 417.4	Road Vehicles-Connections for on-board Electrical Wiring Harnesses--Part 4: Tabs for Multi-pole Connections- Dimensions and Specific Requirements
QC/T417.5	Road vehicles – connections for on-board electrical wiring harnesses –Part 5