

ICS 29.120.10
CCS K 65



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 20041.23-2009

**Conduit systems for cable management -- Part 23: Particular
requirement -- Flexible conduit systems**

电缆管理用导管系统 第23部分：柔性导管系统的特殊要求

(English Translation)

Issued on: May 6, 2009

Implemented on: February 1, 2010

Issued by: Standardization Administration of China

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Foreword

All technical content in this section is mandatory.

GB 20041 "Conduit systems for cable management" is divided into two parts.

--- Part 1. General requirements (GB/T 20041.1)

--- Part 2. Particular requirements (GB 20041.21 ~ 20041.24) - Part 21. Particular requirements for rigid conduit systems - Part 22. Particular requirements for flexible conduit systems - Part 23. Particular requirements for flexible conduit systems - Part 24. Particular requirements for conduit systems buried underground this is Part 23 of GB 20041. This section should be GB/T 20041.1-2005 used in conjunction.

This section identical with IEC 61386-23:2002 (first edition) "Conduit systems for cable management - Part 22. flexible conduit special Claim".

This section of the Appendix A, Appendix B is a normative appendix.

This part is proposed by the China Electrical Equipment Industrial Association.

This part of the National Standardization Technical Committee electrical accessories.

This section drafted by. China Electric Apparatus Research Institute, Guangdong CIQ, Foshan Gaoming Gu Plastic Co., Ltd. in Hangzhou Hongyan Electric Co., Ltd., Guangdong Science and Technology Industrial Co., Ltd. Liansu.

1 Scope

GB/T 20041.1-2005 after this chapter apply for the following modifications.

increase.

This part of GB 20041 specifies the requirements for flexible conduit systems.

2 Normative references

The following documents contain provisions which, through reference in this text, constitute provisions of this part. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this section, however, encourage the parties to this part of the research agreement Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 20041.1-2005 this chapter apply.

3 Definitions

GB/T 20041.1-2005 this chapter apply.

4 General requirements

GB/T 20041.1-2005 this chapter apply.

5 General conditions for tests

GB/T 20041.1-2005 this chapter apply.

Category 6

Except as follows, GB/T 20041.1-2005 this chapter apply.

6.1.31), 6.1.32) and 6.1.33) Not applicable.

7 Marking and documentation

GB/T 20041.1-2005 after this chapter apply for the following modifications.

increase.

7.1.101

conduit should be identified in accordance with the requirements of 7.1. Logo should at regular intervals along the full length of the catheter, as the most suitable interval 1m, not more than 3m. As in the case of technology can not be implemented, logos can be marked on the label attached to the end product or packaging.

Compliance is checked by inspection.

7.1.102

The manufacturer shall provide documentation for the system or marked on the package, to illustrate the minimum diameter, minimum bend radius and in accordance with Chapter 6 classification.

Compliance is checked by inspection.

Size 8

instead.

GB 20041.23-2009/IEC 61386-23:2002

8.1 Threads shall comply with GB/T 17194.

Compliance is checked by measuring gauge GB/T 17194 stipulated to check.

The minimum inner diameter of 8.2 catheter system shall be declared by the manufacturer.

Compliance is checked by measurement.

9 Structure

GB/T 20041.1-2005 this chapter apply.

10 Mechanical properties

GB/T 20041.1-2005 after this chapter apply for the following modifications.

10.1 Mechanical strength

10.1.1

Addition.

Note: very light, flexible catheter should not be considered to have sufficient mechanical protection, and should not be used in building construction.

10.4 Bending test

GB/T 20041.1-2005 this section does not apply.

10.5 Bending test

10.5.101

from conduit terminating conduit fittings with the composition of the components according to the manufacturer's instructions assembled, you should use 101 as shown in Fig.

Means for bending test.

10.5.102

test should be used as a conduit 6 samples having a suitable length, three specimens should be minimum transport, use and safety provisions in Table 1 Means test temperature $\pm 2^\circ\text{C}$ under. Further three samples shall be carried out in Table 2 below the specified maximum transport, use and installation temperature $\pm 2^\circ\text{C}$ in test.

Manufacturers can declare a flexible catheter adapted to a predetermined temperature in accordance with Table 1 transport and installation, but only for a minimum temperature of ambient temperature Bending degree, this time, the test shall be at $(20 \pm 2)^\circ\text{C}$ were, classification code and the first three digits should be X. The manufacturer shall, in its written materials the transport and installation explicitly stated minimum temperature according to Table 1, the lowest temperature of the ambient temperature and the maximum temperature in accordance with the installation and use

Table 2.

10.5.103

terminating conduit fittings should be used as shown in Fig. 101 is fixed to the specimen swing body, when the catheter is moved to the middle position, the catheter Axis is vertical, and passing through the pivot shaft. Equipped with a device should be placed after the sample under specified conditions 2h, or until the sample temperature reaches declaration Degree, whichever is longer.

10.5.104

pendulum should axis vertical axis, swing, swing the total angle of $(180 \pm 5)^\circ$, the average separated by a vertical axis. Components should be Per minute (40 ± 5) times the rate of 5000 fold. From the vertical position start, once a week sinusoidal movement bent.

10.5.105

After the test, the sample should be no signs of split, nor come now without additional amplification normal or corrected vision visible crack.

10.6-destructive testing GB/T 20041.1-2005 this section does not apply.