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

GB/T 20041.21-2017

Replacing GB 20041.21-2008

**Conduit systems for cable management -- Part 21: Particular
requirement for rigid conduit systems
(English Translation)**

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Foreword

GB/T 20041 "Cable Management Catheter System" is divided into the following sections.

--- Part 1. General requirements

--- Part 2. Special requirements - Part 21. Particular requirements for rigid ductwork - Part 22. Particular requirements for flexible catheter systems - Part 23. Particular requirements for flexible ductwork - Part 24. Particular requirements for buried duct systems - Part 25. Particular requirements for catheter anchorages this section GB/T 20041 Part 21.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB .20041.21-2008 "Catheter Management Cable System Part 21. Rigid Catheter System Specific Requirements", Compared with GB .20041.21-2008, the main technical changes are as follows.

- Increasing the normative references (see Chapter 2);
- Increase the routine test project requirements (see 5.101);
- Increased the number of the requirements of this part of the standard (see 7.1.101);
- Increased the requirements of metal conduit thread (see 8.1);
- Increased the size of the metal catheter requirements (see 8.101,8.102,8.103,8.104,8.105,8.106);
- Increased the structural requirements of metal catheters (see 9.101,9.102,9.103,9.104,9.105,9.106,9.107,9.108);
- Increased the protection level of metal ducts and corrosion resistance requirements (see Chapter 14);
- Added Figure 101;
- Increased normative Appendix C routine test.

This section uses the redrafted law to amend the use of IEC 61386-21:2002 "Cable Management Catheter System Part 21. Rigid Conduit System specific requirements. " this part of IEC 61386-21:2002 technical differences and the reasons are as follows.

--- On the normative references, this section made a technical difference with the adjustment to adapt to China's technical conditions, adjust the situation Concentration reflected in the second chapter "Normative references", the specific adjustments are as follows.

- GB/T 20041.1-2015 replaced by IEC 61386-1;
- Added reference documents GB/T 192, GB/T 196, GB/T 4208, GB/T 17194.

- In order to guide the manufacturer's production inspection, an increase of 5.101.
 - 7.1.101 Added the requirement to mark this part number.
 - According to the situation of the metal catheter system in our country, an increase of catheter size requirements terms .8.101,8.102,8.103,8.104, 8.105,8.106.
 - According to the situation of China's metal catheter system, an increase of catheter structure requirements .9.101,9.102,9.103,9.104, 9.105,9.106,9.107,9.108.
 - According to China's metal conduit system application environment, an increase of the catheter protection level and corrosion-resistant terms.
- 14.101,14.102.
- Added Appendix C routine test.
 - Added Figure 101.

This section made the following editorial changes.

- In accordance with the requirements of GB/T 1.1-2009, in Chapter 1 "Scope" be amended to "GB/T 20041 This section specifies the rigid guide Pipe system signs and documents, size, structure, mechanical properties, electrical properties, thermal performance and other technical requirements. This section applies to just Sex Catheter System. "
- Due to the increase of Figure 101, and according to the figure mentioned in the order of the figure, number has been adjusted.

This part is proposed by China Electrical Equipment Industry Association.

This part of the National Electrical Accessories Standardization Technical Committee (SAC/TC67) centralized.

This part of the drafting unit. China Electric Apparatus Research Institute Co., Ltd., Zhongshan City, Shun Shing Hardware Products Co., Ltd. Guangdong Tong Technologies Co., Ltd., Hangzhou Hongyan Electric Co., Ltd., ABB (China) Co., Ltd., Guangdong Liansu Technology Industry Co., Ltd., Guangdong Wagner Steel Pipe Industrial Co., Ltd., Haizhu District, Guangzhou City Zhongxing Hardware Trunk Bridge plant, Wei Kai Detection Technology Co., Ltd., Shenzhen, China Autopass Industrial Electric Limited.

1 Scope

GB/T 20041.1-2015 this chapter replaced by.

This section GB/T 20041 specifies the signs and documents rigid pipe system, size, structure, mechanical properties, electrical properties, thermal can wait for technical requirements.

This section applies to rigid catheter system.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 192 ordinary thread 196 basic type (GB/T 192-2003, ISO 68-1:1998, MOD) GB/T 196 ordinary thread basic dimensions (GB/T 196-2003, ISO 724:1993, MOD) GB/T 4208 enclosure protection (IP code) (GB/T 4208-2008, IEC 60529:2001, IDT) GB/T 17194 electrical conduit electrical installation of the catheter diameter and the catheter and accessories thread (GB/T 17194-1997, eqv IEC 423:1993) GB/T 20041.1-2015 Conduit systems for cable management - Part 1. General requirements (IEC 61386-1-2008, MOD)

3 Terms and definitions

GB/T 20041.1-2015 of this chapter apply.

4 General requirements

GB/T 20041.1-2015 of this chapter apply.

5 Test the general conditions

This section GB/T 20041.1-2015 apply the following terms.

5.101

routine test project is given in Appendix C.

6 Categories

This chapter GB/T 20041.1-2015 applies, except as follows.

6.1.11), 6.1.21), 6.1.32), 6.1.33), 6.1.34), 6.1.41) and 6.1.51) do not apply.