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

GB/T 38280-2019

**Cable management systems - Specifications for conduit fittings
and accessories for cable installations for extra heavy-duty
electrical steel conduit**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the redrafting method to modify and adopt IEC 61950..2007

Specification for catheter fittings and accessories for placement.

The technical differences between this standard and IEC 61950..2007 and their causes are as follows.

--- Regarding the normative reference documents, this standard has made adjustments with technical differences to suit China's technical conditions and the situation of adjustment.

The situation is reflected in Chapter 2 "Regulatory Reference Documents", and the specific adjustments are as follows.

- * Replaced IEC 60695-11-3 with GB/T 5169.15-2015 equivalent to the international standard (see 9.4.6);
- * Replaced ISO 4892-2..1994 with GB/T 16422.2-2014 equivalent to the international standard (see 9.2.2.7.2);
- * Replaced IEC 60981..2004 with GB/T 17193 equivalent to the international standard (see Chapter 1, 6.3.3);
- * ISO 5864..1993 was replaced by GB/T 20666 which adopted the international standard (see 4.6);
- * Replaced ISO 68-2..1998 (see 4.6) with GB/T 20669 which adopted the international standard;
- * ISO /263 (see 4.6) was replaced with GB/T 20670 which adopted the international standard;
- * ISO 301. 1981 replaced by ISO 301..2006 (see 4.2.1.4).

--- "The hardness change should not exceed 5 digits" in 4.3.3 was revised to "the hardness change should not exceed 10 digits", corrected

The error on the "hardness change" figure in 4.3.3 of IEC 61950..2007 is consistent with the requirements of 9.9.

The following editorial changes have been made to this standard.

--- Figures and table numbers are adjusted in the order mentioned in the standard.

This standard was proposed by the China Electrical Equipment Industry Association.

This standard is under the jurisdiction of the National Electrical Equipment Standardization Technical Committee (SAC/TC67).

This standard was drafted. Jiaxing Weikai Testing Technology Co., Ltd., Zhongshan Changshun Hardware Products Co., Ltd., Hangzhou Hongyan Electric Co., Ltd

Company, Guangdong Yitong Technology Co., Ltd., Shenzhen Yinghe Technology Co., Ltd., Dongguan Yakang Precision Machinery Co., Ltd., China

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1 Scope

This standard specifies the general requirements for conduit fittings and accessories for heavy-duty rigid electrical conduit and cable installations, and the deployment of special wiring systems.

Parts, cast metal boxes and duct bodies, special types, signs, and type tests of cast metal boxes and duct bodies.

This standard applies to accessories and accessories that comply with GB/T 17193 Extra Heavy Load Rigid Steel Conduit (EHDERS), including cast metal boxes

And the catheter body.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article

Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 5169.15-2015 Fire hazard test for electric and electronic products Part 15. Test flame 500W flame device

And validation test methods (IEC 60695-11-3..2012, IDT)

GB/T 16422.2-2014 Plastic laboratory light source exposure test methods-Part 2. Xenon arc lamps (ISO 4892-2..2006,

IDT)

GB/T 17193 Super heavy duty rigid steel conduit for electrical installation (GB/T 17193-1997, idt IEC 981. 1989)

GB/T 20666 unified thread tolerance (GB/T 20666-2006, ISO 5864..1993, MOD)

GB/T 20669 unified thread profile (GB/T 20669-2006, ISO 68-2..1998, MOD)

GB/T 20670 unified thread diameter and number of teeth series (GB/T 20670-2006, ISO 263. 1973, MOD)

ISO 301..2006 Zincalloyingotsintendedfor castings

3 terms and definitions

The following terms and definitions apply to this document.

3.1

Elbow angle fitting

Accessories for changing the direction of the pipeline when the catheter enters the box or casing (with or without a cap).

3.2

Box box

Enclosure without cover, but with cover and duct and cable entry on the surface.

3.3

Box Fitting

A connector that connects a non-threaded (or threaded) metal conduit (or cable) to a demolding opening in a box or enclosure.

3.4

Bushing

Fittings to protect the wires from abrasion, mainly installed at the entrance and exit of the conduit system.