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

GB 50311-2016

Replacing GB 50311-2007

Code for engineering design of generic cabling system

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1 General Provisions	

Foreword

This code is revised by China Mobile Group Design Institute Co., Ltd. jointly with the organizations concerned according to the requirements of Document JIANBIAO [2012] No.5 issued by the Ministry of Housing and Urban-Rural Development- Notice on Printing and Distributing 'the Development and Revision Plan of National Engineering Construction Standards in 2012'.

During the process of formulating this code, the code drafting group carries out extensive investigations and studies, carefully summarizes the practical experience, refers to the relevant international and foreign standards, extensively solicits opinions and finalizes this code through review.

This code comprises nine chapters and three annexes, with the main technical contents including. General Provisions, Terms and Abbreviations, System Design, Fiber to the Subscriber Unit Communication Facilities, System Configuration Design, Performance Indicators, Installation Requirements, Electrical Protection and Grounding, Fire Prevention, etc.

The following technical deviations have been made with respect to the former code.

- (1) The design requirements of the campus and building generic cabling system and the communication infrastructure engineering are supplemented and perfected on the basis of the contents of GB 50311-2007 Code for Engineering Design of Generic Cabling System.
- (2) The contents relevant to the application of cabling system in weak system are added.

(3) The engineering design requirements for fiber to the subscriber unit communication facilities are added, and the mandatory provisions relevant to the engineering construction of fiber to the subscriber unit communication facilities are newly added.

(4) The installation requirements for pipe chase and equipment are enriched.

(5) Relevant annexes are added.

In this code, the provisions printed in bold type are mandatory ones and must be enforced strictly.

The Ministry of Housing and Urban-Rural Development the People's Republic of China is in charge of the administration of this code and the explanation of the mandatory

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1.0.1 This code is formulated with view to standardizing the construction of network

integrating voice, data, picture and multimedia services for buildings and campus.

1.0.2 This code is applicable to the engineering design of generic cabling system for

constructed, extended and renovated buildings and campus.

1.0.3 The construction of facilities in generic cabling system shall be included in the

corresponding planning and design of buildings and campus. The design shall be carried out according to the nature, functions and environmental conditions of engineering project and the short-/long-term subscriber demands, and the construction and maintenance

convenience shall be taken into consideration to ensure the quality and safety of generic cabling system engineering and to achieve advanced technology and economic rationality.

1.0.4 Generic cabling system should be planned as a whole and also be designed

synchronously together with the wiring of information network system, security technology and protection system and building automation system, etc., and its design shall be reasonably optimized according to the information transmission requirements of these systems.

1.0.5 In the engineering design of generic cabling system, the products selected shall be

approved products which are accompanied with acceptance inspection report and meet the relevant technical requirements of the nation.

1.0.6 In addition to this code, the engineering design of generic cabling system shall

also comply with those specified in the current relevant standards of the nation.

permanent link, including the connecting hardware at both ends, between floor distributor and consolidation point (CP)

2.1.10 campus distributor

distributor used for terminating the campus backbone cable

2.1.11 building distributor

distributor used for terminating the building backbone cable or campus backbone cable

2.1.12 floor distributor

distributor used for terminating the horizontal cable and the cables in othe...