



Exploration & Production

GENERAL SPECIFICATION

TELECOMMUNICATIONS

GS EP TEL 180

**Engineering and installation of telecommunication
network pre-cabling**

03	10/2008	General revision + Standards update and correction
02	10/2005	General revision + addition of EP root to GS
01	10/2003	General revision
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Rev.	Date	Notes



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1. Scope

The purpose of this General Specification is to define the engineering rules to be applied to the pre-cabling in premises accommodating voice, data, image transmission networks.

(Public Address networks are outside the scope of this Specification because of the large amount of electrical power required to transmit data through such networks).

This Specification applies to any and all industrial sites (oil platforms), campus or offices with the exception of hazardous (flame proof) areas.

The verbal forms used to indicate levels of requirement are specified in [ISO/IEC Directives, Part 2](#) and [Characteristics of good requirements](#), INCOSE symposium 1996.

2. Reference documents

The equipment shall satisfy the requirements and regulations of the country of installation and specific standards referred to in this specification.

Where national regulations exist, their provisions and those of the standards and codes to which they refer shall apply, supplementing or amending the provisions of this document.

If there are no national regulations covering all or part of the subject of this document, the reference documents shall be strictly applied, as supplemented by the provisions of this document.

Only the main reference documents are mentioned; the CONTRACTOR shall be responsible for complying with all secondary reference documents dealing with the subject of this document.

The reference documents listed below form an integral part of this General Specification. Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the EFFECTIVE DATE of the CONTRACT.

Standards

Reference	Title
ISO/IEC 11801 ed 1	Information Technology - Generic Cabling for Customer Premises
ISO/IEC 11801 ed 2	Information Technology - Generic Cabling for Customer Premises
ISO/IEC 61156-5	Multicore and symmetrical pair/quad cables for digital communications
EIA/TIA 568B.2-10	Commercial Building Telecommunications Cabling Standard - Part 2: Balanced Twisted Pair Components - Addendum 1 - Transmission Performance Specifications for 4-Pair 100 Ohm Category 6A Cabling
TIA/EIA 568-B.2-10	Commercial Building Telecommunications Cabling Standard - Part 2: Balanced Twisted Pair Components - Addendum 1 - Transmission Performance Specifications for 4-Pair 100 Ohm Category 6A Cabling
EN 55022	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement
EN 55024	Information technology equipment - Immunity characteristics - Limits and methods of measurement
EN 186000-1	Generic specification; connector sets for optical fibres and cables; part 1: requirements, test methods and qualification approval procedures
EN 188000	Generic specification - Optical fibres
NF C15-100	Installations électriques à basse tension
NF C15-900	Installations électriques à basse tension - Guide pratique – Mise en oeuvre et cohabitation des réseaux de puissance et des réseaux de communication dans les installations des locaux d'habitation, du tertiaire et analogues
NF C32-070	Conducteurs et câbles isolés pour installations. - Essais de classification des conducteurs et câbles du point de vue de leur comportement au feu
ISO/IEC Directives, Part 2	Rules for the structure and drafting of International Standards

Professional Documents

Reference	Title
F3i - REGLES DE L'ART ed 3	Fédération de l'Ingénierie et de l'Intégration Immotique (guideline for Installation of the E and F classes, and Gigabit Ethernet)

Regulations

Reference	Title
2004/108/EC	EMC directive mandatory after 2009

Codes

Reference	Title
Not applicable	

Other documents

Reference	Title
Characteristics of good requirements	Requirements Working Group of the International Council on Systems Engineering (INCOSE symposium 1996)

Total General Specifications

The provisions of this document shall be applied in the light of the supplementary documents supplied by the OWNER, including:

- Country specificity appendices
- Job specification
- Data sheets
- Articles and conditions; list of tasks
- Quality assurance provisions

Reference	Title
GS EP ELE 031	Design of earthing and bonding systems
GS EP ELE 151	DC uninterruptible power system (UPS)
GS EP ELE 152	AC uninterruptible power system (UPS)
GS EP ELE 161	Electrical cables
GS EP TEL 410	Installation rules
GS EP TEL 414	Telecommunication cables
GS EP TEL 710	Telecommunication equipment numbering
GS EP CIV 401	Minimum requirements for building design and construction
GS EP SAF 312	Guidelines for selecting and installing fire and gas detection systems