ISO/IEC 11801-1

Edition 1.0 2017-11

**INFORMATION TECHNOLOGY –
GENERIC CABLING FOR CUSTOMER PREMISES**

Part 1: General requirements

C O R R I G E N D U M 1

Foreword

Replace, in list item d), “Category BCT-B, 8.1, and 8.2;” with “Categories BCT-B, 8.1 and 8.2;”.

Replace list item f) with the following new list item:

f) addition of cabled optical fibre Categories OS1a and OM5;

Replace, in list item g), “silica optical fibre cabling;” with “optical fibre classes;”

Replace list item h) with the following new list item:

h) cabled optical fibre Categories OM1, OM2 and OS1 have been moved to an informative annex.

Introduction

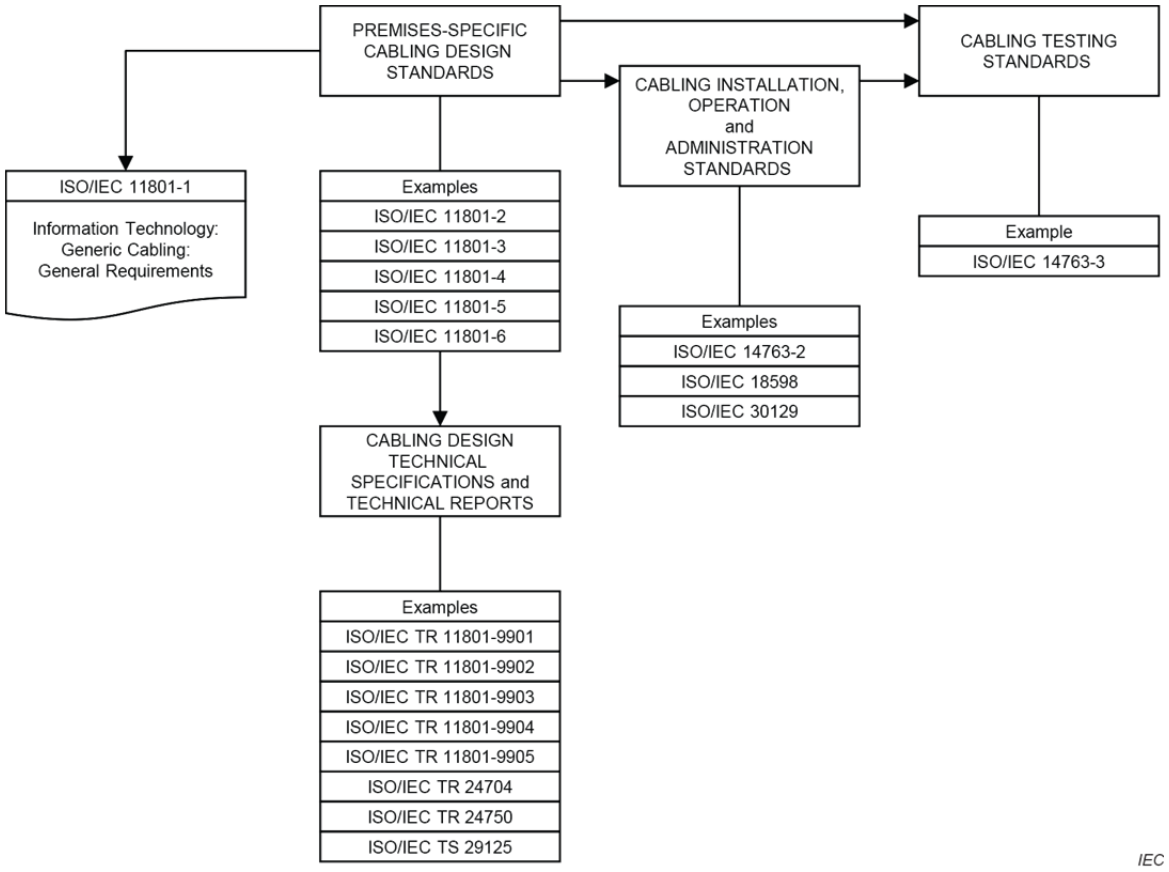
Replace the first paragraph with the following new paragraph:

This document contains general requirements in support of the other premises-specific referenced cabling design documents developed by ISO/IEC JTC 1/SC 25 including ISO/IEC 11801-2, ISO/IEC 11801-3, ISO/IEC 11801-4, ISO/IEC 11801-5, ISO/IEC 11801-6, related Technical Specifications and Technical Reports (including the ISO/IEC TR 11801-99xx series, ISO/IEC TR 24704, ISO/IEC TR 24750 and ISO/IEC TS 29125).

ISO/IEC 11801-1:2017-11/COR1:2018-04(en)

Figure 1 – Relationships between the generic cabling documents produced by ISO/IEC JTC 1/SC 25

Replace the figure graphic with the following new figure graphic:



3.1 Terms and definitions

In 3.1.26, delete “end-to-end” from the definition.

Delete the entire entry 3.1.32.

3.2 Abbreviations

Insert the following abbreviation:

C connection

Replace:

FEXT far-end crosstalk attenuation (loss)

with:

FEXT far-end crosstalk (loss)

Replace:

NEXT near-end crosstalk attenuation (loss)

with:

NEXT near-end crosstalk (loss)

3.3.1 Variables

Delete the following line:

C connection

3.3.2 Indices

Delete the following line:

TO index to denominate a characteristic, measured from the TO

5.1 Functional elements

After the sentence “Groups of these functional elements are connected together to form cabling subsystems.”, insert the following new note:

NOTE The numbering of the cabling subsystems does not imply a hierarchy.

Figure 5 – Equipment and test interfaces

Replace the figure graphic with the following new figure graphic:

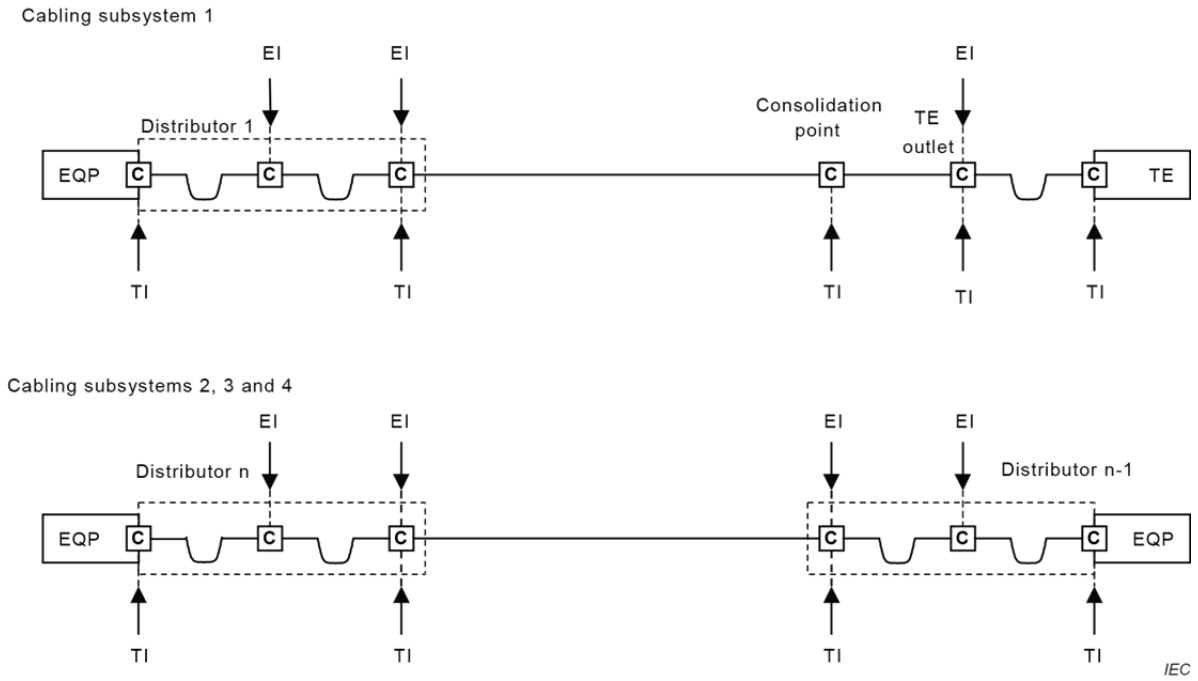


Table 2 – Details of environmental classification

In row 20, insert “g/m^3” after each numerical value in columns 2, 3 and 4, as follows:

Sodium chloride (salt/sea water)	0 g/m^3	< 0,3 g/m^3	< 0,3 g/m^3

In row 21, insert "mg/m^3" after each numerical value in columns 2, 3 and 4, as follows:

Oil (dry-air concentration) (for oil types see [b])	0 mg/m^3	< 0,005 mg/m^3	< 0,5 mg/m^3

In row 22, insert "mg/m^3" after each numerical value in columns 3 and 4, as follows:

Sodium stearate (soap)	None	> 5 × 10^4 mg/m^3 aqueous non-gelling	> 5 × 10^4 mg/m^3 aqueous gelling

In rows 26 to 35, insert "mg/m^3" after each numerical value in columns 2, 3 and 4, as follows:

Hydrogen sulphide	< 0,003 mg/m^3/ < 0,01 mg/m^3	< 0,05 mg/m^3/ < 0,5 mg/m^3	< 10 mg/m^3/ < 50 mg/m^3
Sulphur dioxide	< 0,01 mg/m^3/ < 0,03 mg/m^3	< 0,1 mg/m^3/ < 0,3 mg/m^3	< 5 mg/m^3/ < 15 mg/m^3
Sulphur trioxide (ffs)	< 0,01 mg/m^3/ < 0,03 mg/m^3	< 0,1 mg/m^3/ < 0,3 mg/m^3	< 5 mg/m^3/ < 15 mg/m^3
Chlorine wet (> 50 % humidity)	< 0,000 5 mg/m^3/ < 0,001 mg/m^3	< 0,005 mg/m^3/ < 0,03 mg/m^3	< 0,05 mg/m^3/ < 0,3 mg/m^3
Chlorine dry (< 50 % humidity)	< 0,002 mg/m^3/ < 0,01 mg/m^3	< 0,02 mg/m^3/ < 0,1 mg/m^3	< 0,2 mg/m^3/ < 1,0 mg/m^3
Hydrogen chloride	– / < 0,06 mg/m^3	< 0,06 mg/m^3/ < 0,3 mg/m^3	< 0,6 mg/m^3/ 3,0 mg/m^3
Hydrogen fluoride	< 0,001 mg/m^3/ < 0,005 mg/m^3	< 0,01 mg/m^3/ < 0,05 mg/m^3	< 0,1 mg/m^3/ < 1,0 mg/m^3
Ammonia	< 1 mg/m^3/ < 5 mg/m^3	< 10 mg/m^3/ < 50 mg/m^3	< 50 mg/m^3/ < 250 mg/m^3
Oxides of nitrogen	< 0,05 mg/m^3/ < 0,1 mg/m^3	< 0,5 mg/m^3/ < 1 mg/m^3	< 5 mg/m^3/ < 10 mg/m^3
Ozone	< 0,002 g/m^3/ < 0,005 g/m^3	< 0,025 g/m^3/ < 0,05 g/m^3	< 0,1 g/m^3/ < 1 g/m^3

6.3.1 General

In the first sentence after list item 2), replace "two sub-Classes, L and M." with "two sub-Classes, L and M (see Table 5)."

6.3.3.2 Insertion loss/attenuation

In the last paragraph before Table 5, delete ", at maximum implementation,".

6.3.3.6 Direct current loop resistance

Replace the first paragraph with the following new paragraph:

The DC loop resistance requirements are applicable to all cabling Classes.

6.3.3.7 Direct current resistance unbalance

Replace the first paragraph with the following new paragraph:

The DC resistance unbalance requirements are applicable to all cabling Classes.

6.3.3.10 Propagation delay

Replace the first paragraph with the following new paragraph:

The propagation delay requirements are applicable to all cabling Classes.

6.3.3.11 Delay skew

Replace the first paragraph with the following new paragraph:

The delay skew requirements are applicable to all cabling Classes.

6.3.3.12.2 Unbalance attenuation, near-end

In the second paragraph, first sentence, replace the two instances of the word “systems” with “channels”.

Table 21 – TCL for channel for unscreened systems

In the title of Table 21, replace the word “systems” with “channels”.

At the end of footnote b, add the following new text:

“f_u is the upper frequency of the Class.”

Table 25 – ELTCTL for channel for unscreened systems

In the title of Table 25, replace the word “systems” with “channels”.

Table 29 – Coupling attenuation for a channel for screened systems

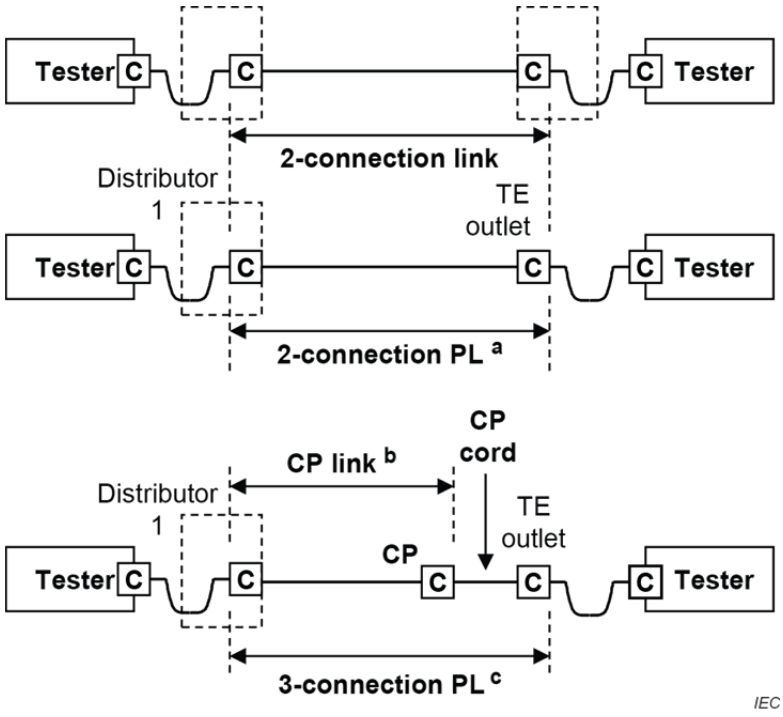
In the title of Table 29, replace the word “systems” with “channels”.

6.3.3.13.2 Power sum alien NEXT

In the second paragraph, delete “, at maximum implementation,”.

Figure 7 – Link designations

Replace the figure graphic with the following new figure graphic:



7.2.1 General

In the last paragraph, delete the following sentence:

Link requirements for unbalance attenuation and coupling attenuation are ffs.

Table 84 – Backbone link length equations

Replace list item 1) with the following new list item:

1) 0,2 % per °C for screened balanced cables up to 60 °C,

Figure 12 – Four position jack pin and pair grouping assignments for IEC 61076-2-101 connecting hardware (front view of connector)

Replace the Figure 12 title with the following new title:

Figure 12 – Four position connector pin and pair assignments for IEC 61076-2-101 connecting hardware (front view of male connector)

Figure 13 – Eight position jack pin and pair grouping assignments for IEC 61076-2-109 connecting hardware (front view of connector)

Replace the Figure 13 title with the following new title:

Figure 13 – Eight position connector pin and pair grouping assignments for IEC 61076-2-109 connecting hardware (front view of male connector)

Table 140 – Informative values of return loss for balanced cords at key frequencies

In the first column, delete “ffs” at frequency value 2 000.

Table E.1 – Applications using balanced cabling

In rows 25 and 26, replace, in the second column, “IEEE 802.3bz:2016” with “ISO/IEC/IEEE 8802-3:2017/AMD7”, as follows:

Ethernet 2.5GBASE-T	ISO/IEC/IEEE 8802-3:2017/AMD7, Clause 126 [a]	2016	2.5 Gigabit Ethernet over Twisted Pairs, IEEE 802.3bz
Ethernet 5GBASE-T	ISO/IEC/IEEE 8802-3:2017/AMD7, Clause 126 [a]	2016	5 Gigabit Ethernet over Twisted Pairs, IEEE 802.3bz

In row 35, replace “20xx” with “2017”, as follows:

Class I 2017 (defined up to 2 000 MHz)

In rows 36 and 37, replace, in the second column, “IEEE 802.3bq:2016” with “ISO/IEC/IEEE 8802-3:2017/AMD3”, as follows:

Ethernet 25GBASE-T	ISO/IEC/IEEE 8802-3:2017/AMD3, Clause 113	2016	25 Gigabit Ethernet over Twisted Pairs, IEEE 802.3bq
Ethernet 40GBASE-T	ISO/IEC/IEEE 8802-3:2017/AMD3, Clause 113	2016	40 Gigabit Ethernet over Twisted Pairs, IEEE 802.3bq

In row 38, replace “20xx” with “2017”, as follows:

Class II 2017 (defined up to 2 000 MHz)

In rows 39 and 40, replace, in the second column, “IEEE 802.3bq:2016” with “ISO/IEC/IEEE 8802-3:2017/AMD3”, as follows:

Ethernet 25GBASE-T	ISO/IEC/IEEE 8802-3:2017/AMD3, Clause 113	2016	25 Gigabit Ethernet over Twisted Pairs, IEEE 802.3bq
Ethernet 40GBASE-T	ISO/IEC/IEEE 8802-3:2017/AMD3, Clause 113	2016	40 Gigabit Ethernet over Twisted Pairs, IEEE 802.3bq

In the text box, in the first paragraph, replace two instances of “10GBase-T” with “10GBASE-T”.

In the text box, in the second paragraph, replace two instances of “2.5GBase-T” with “2.5GBASE-T”.

In the text box, in the fourth paragraph, first sentence, replace “are” with “is”.

In the text box, in the fourth paragraph, second sentence, delete two instances of “(ffs)”.

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