

BS 6701:2004

“Telecommunications equipment and telecommunications cabling
- Specification for installation, operation and maintenance”

-

THE “ONE-STOP-SHOP”
FOR INSTALLATION Q.A.

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A USERS PERSPECTIVE

Mike Gilmore
Managing Director, e-Ready Building
The Cabling Partnership

UK Installation Standards - 2001

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TELECOMMUNICATIONS CABLING



BS 6701

Code of Practice for the installation of apparatus intended for connection to certain telecommunications systems

DEVELOPED BY	BSI TCT/7
PUBLICATION	BS 6701-1 and -2: 1986
REVISED	BS 6701-1 and -2: 1990
REVISED	BS 6701: 1994
AMENDED	BS 6701 A.1: 1997
AMENDED	BS 6701 A.1 and A.2: 1999

OPTICAL FIBRE



BS 7718

Code of Practice for the installation of fibre optic cabling

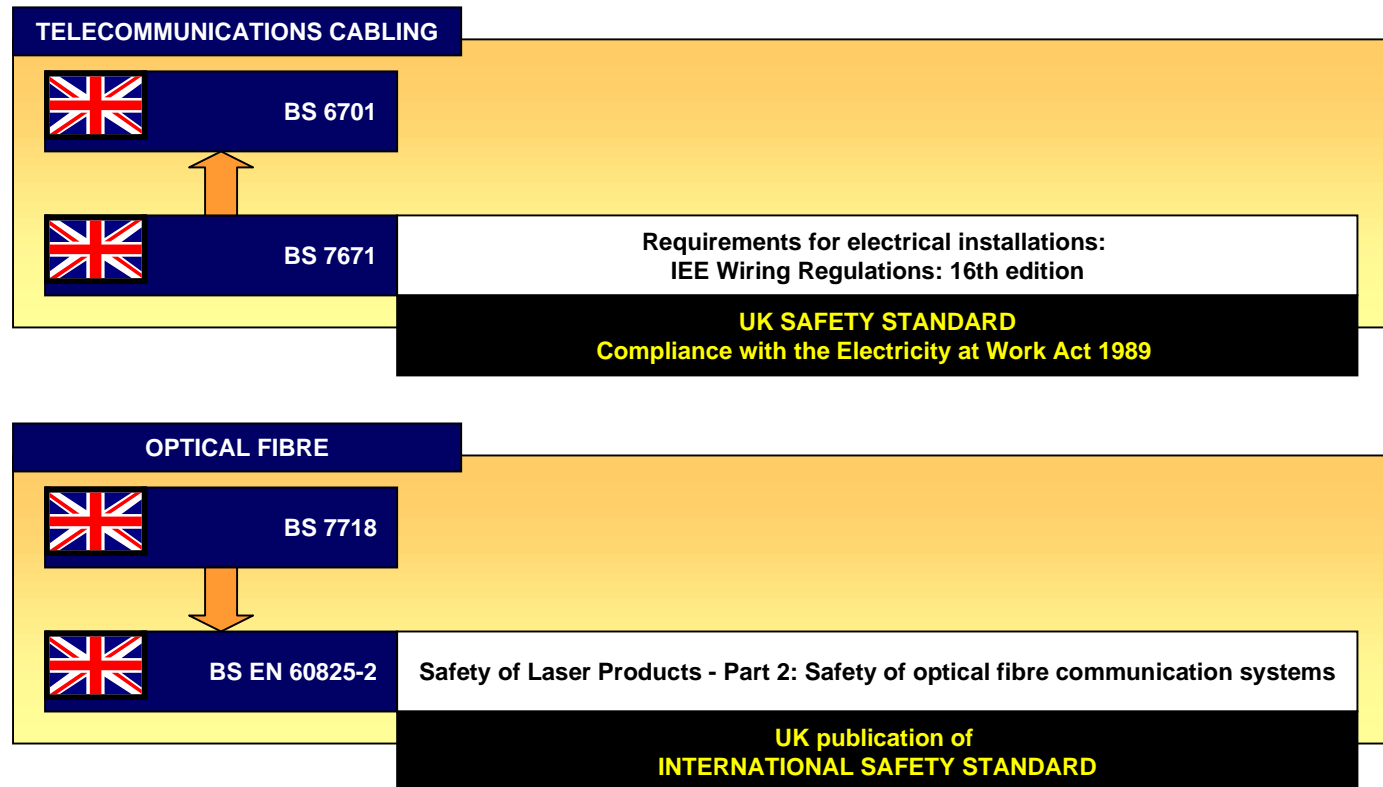
DEVELOPED BY	BSI ECL/22 WG3
INTERIM PUBLICATION	FIA as FIA-CCP/1/91: 1991
BS PUBLICATION	BS 7718: 1995
AMENDED	BS 7718 A.1: 1996

UK Installation Safety Standards - 2001

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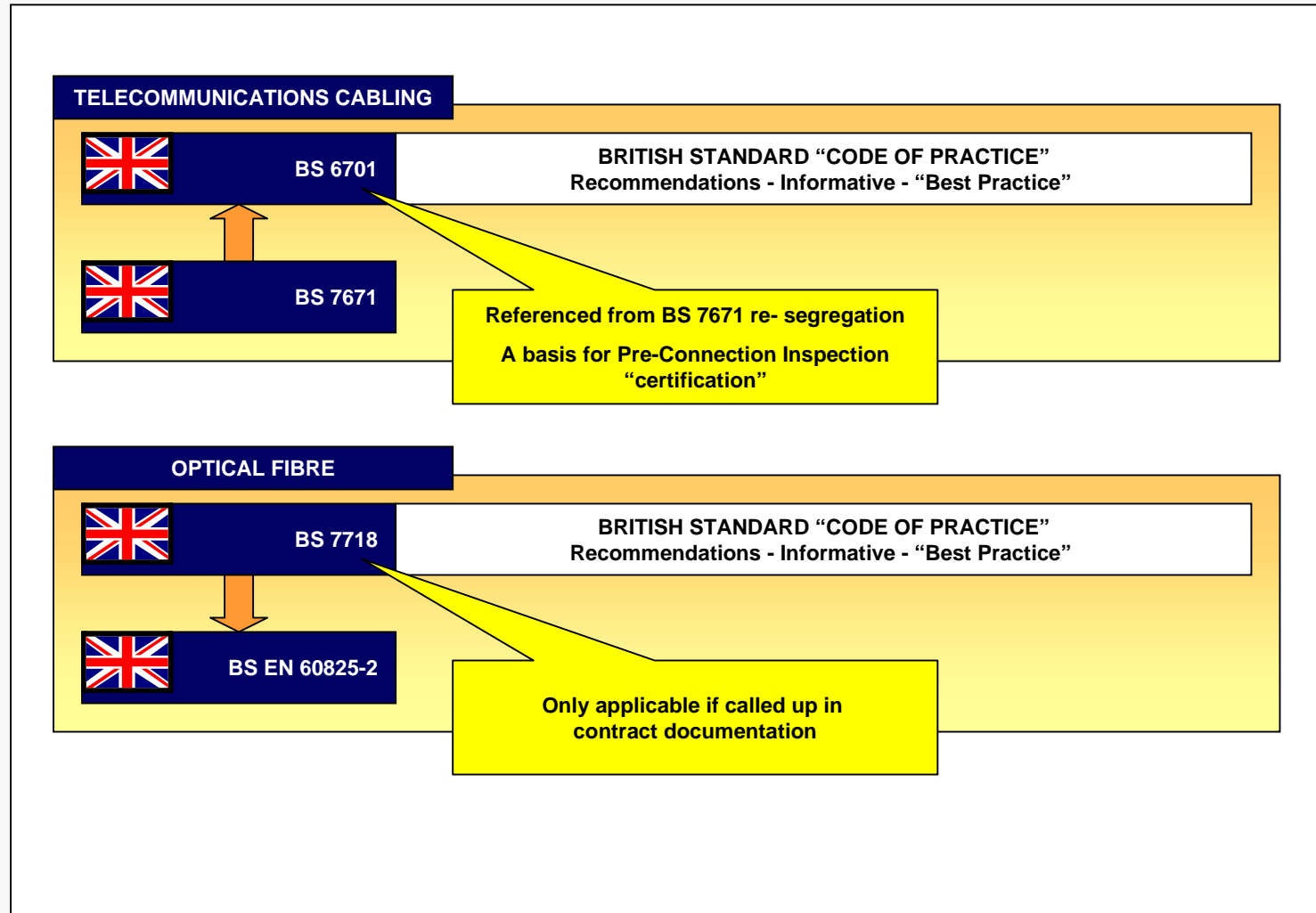
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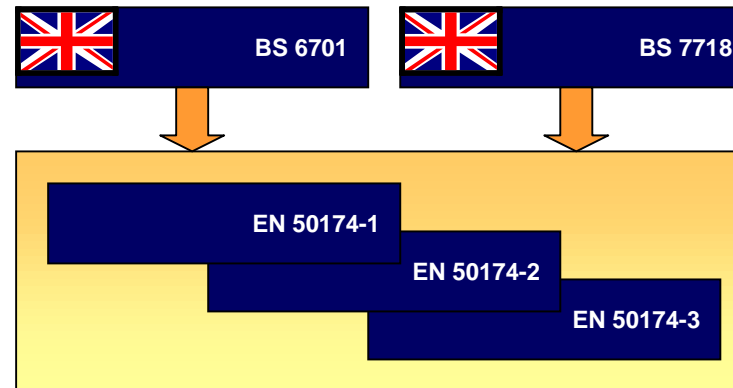
Standards Status - 2001




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BS EN 50174-X Standards

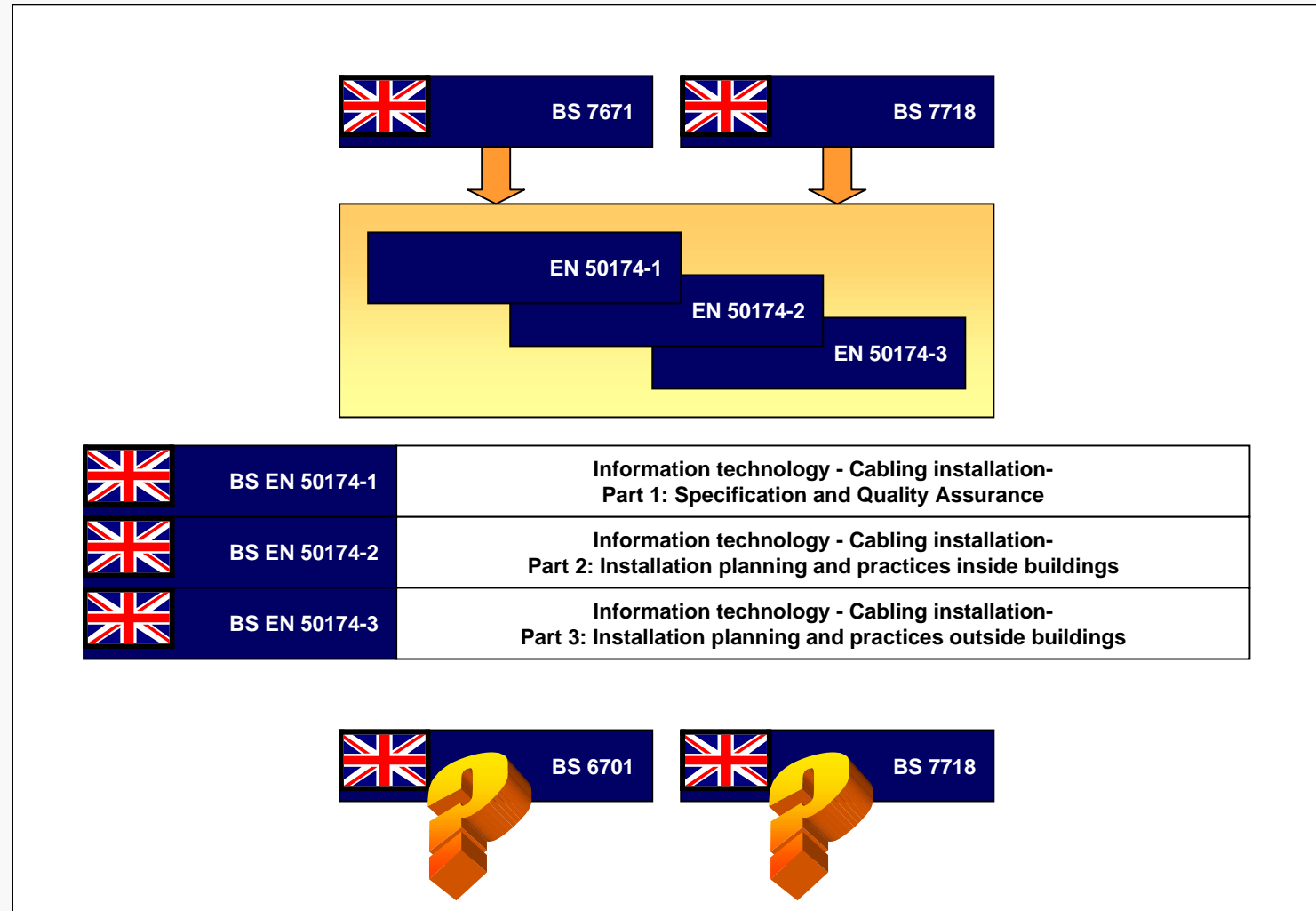
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	BS EN 50174-1	Information technology - Cabling installation- Part 1: Specification and Quality Assurance
	BS EN 50174-2	Information technology - Cabling installation- Part 2: Installation planning and practices inside buildings
	BS EN 50174-3	Information technology - Cabling installation- Part 3: Installation planning and practices outside buildings

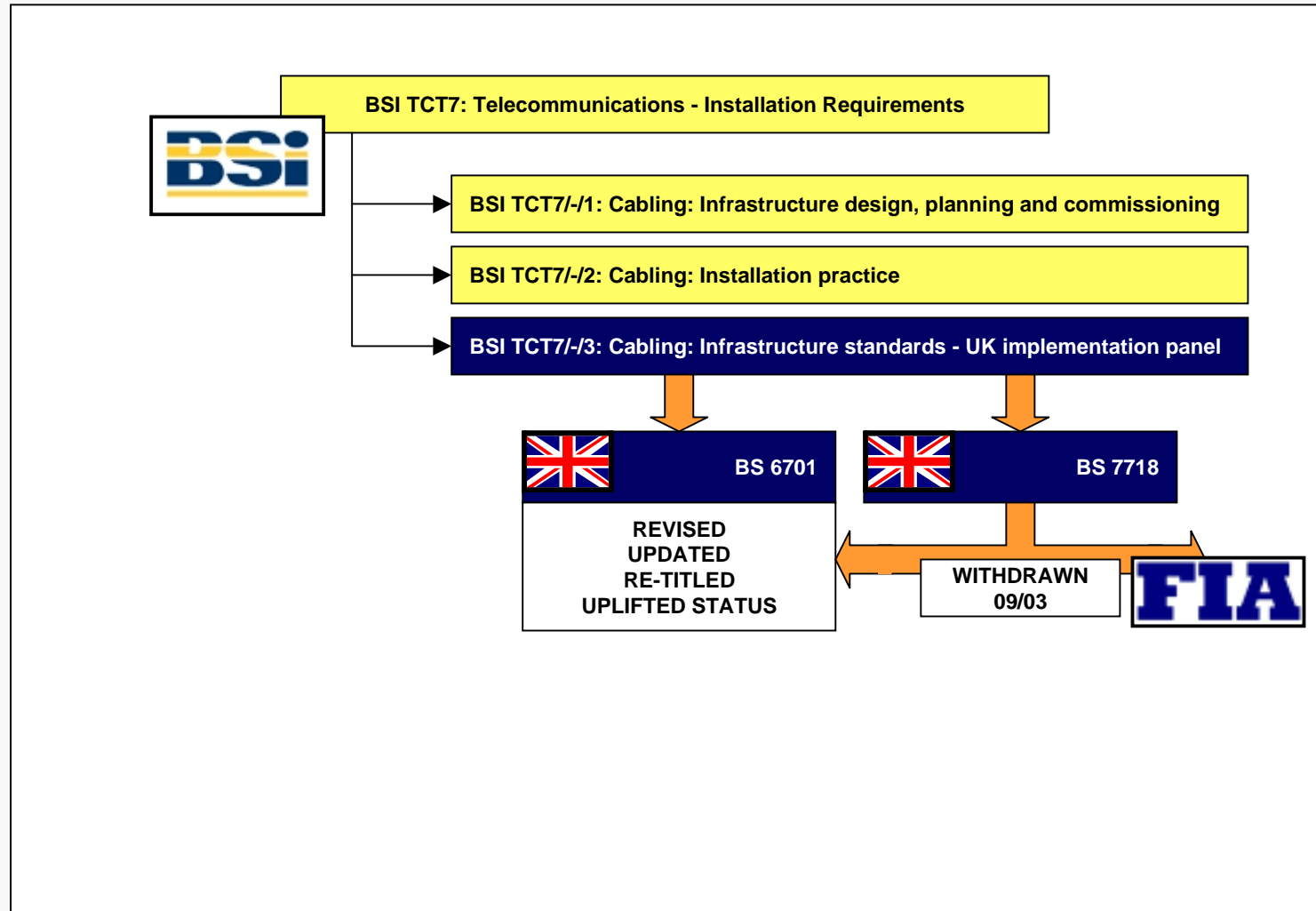
The Impact of BS EN 50174-X Standards

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The Impact of BS EN 50174-X Standards

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FIA Technical Support Documents

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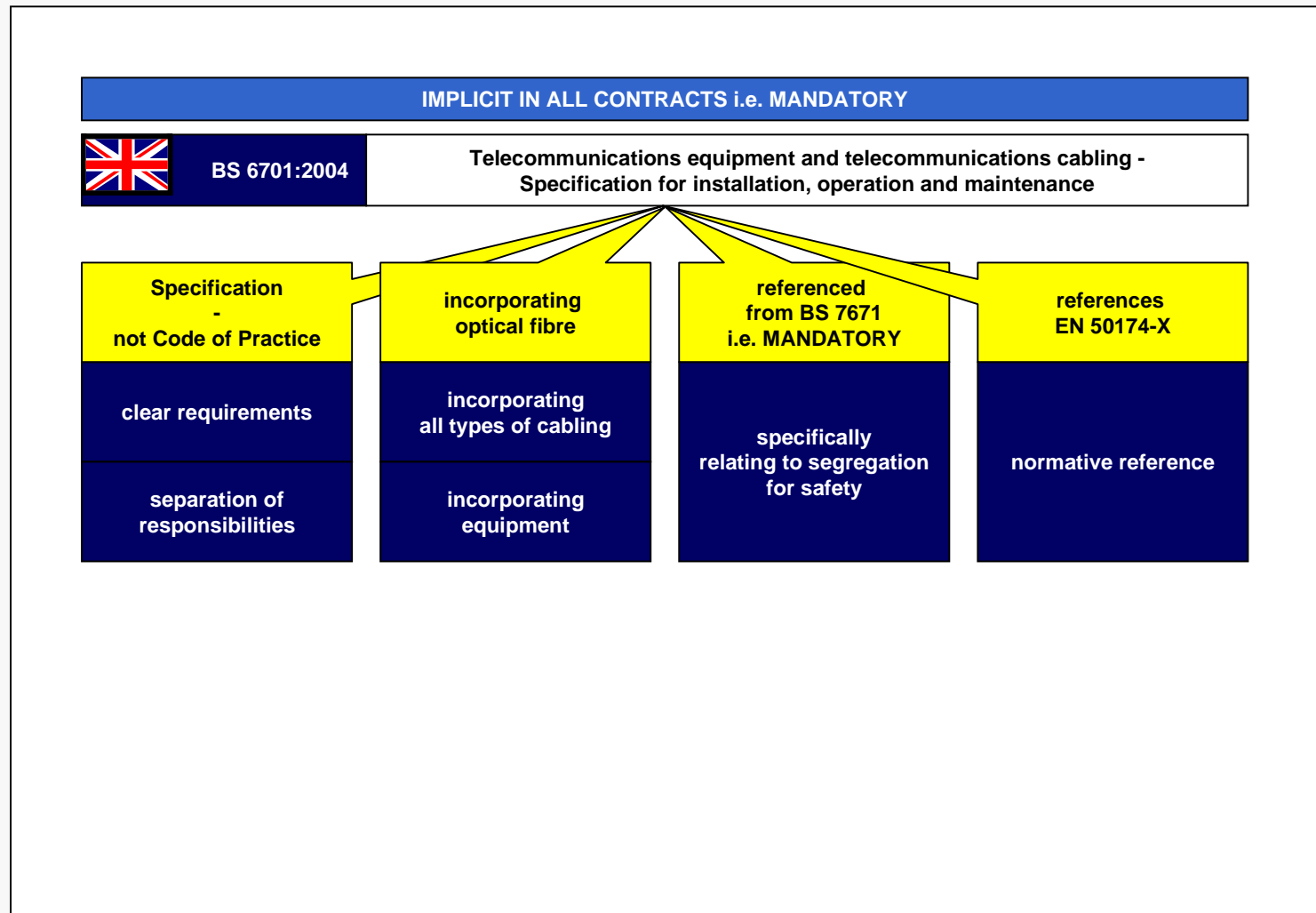
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	TSD	
DESIGN	2000-1-1	OPTICAL FIBRE CABLING: LAN APPLICATION SUPPORT GUIDE
	2000-1-3	OPTICAL FIBRE CABLING: DARK FIBRE SUPPORT GUIDE
OPERATION	2000-3-2-1	ADMINISTRATION: USER GUIDE
	2000-3-2-2	ADMINISTRATION: CORDS
	2000-3-3	POLARITY MAINTENANCE
INSTALLATION	2000-4-1-1	INSTALLATION PRACTICE: SPLICING
	2000-4-2-1	TESTING OF INSTALLED CABLING: ATTENUATION USING LSPM EQUIPMENT
	2000-4-2-2	TESTING OF INSTALLED CABLING: ATTENUATION USING OTDR EQUIPMENT
SAFETY	2000-5-1	OPTICAL POWER: SAFETY LEVELS
	2000-5-2	OPTICAL FIBRE: HANDLING OF PROCESSING CHEMICALS
	2000-5-3	OPTICAL FIBRE: DISPOSAL OF WASTE

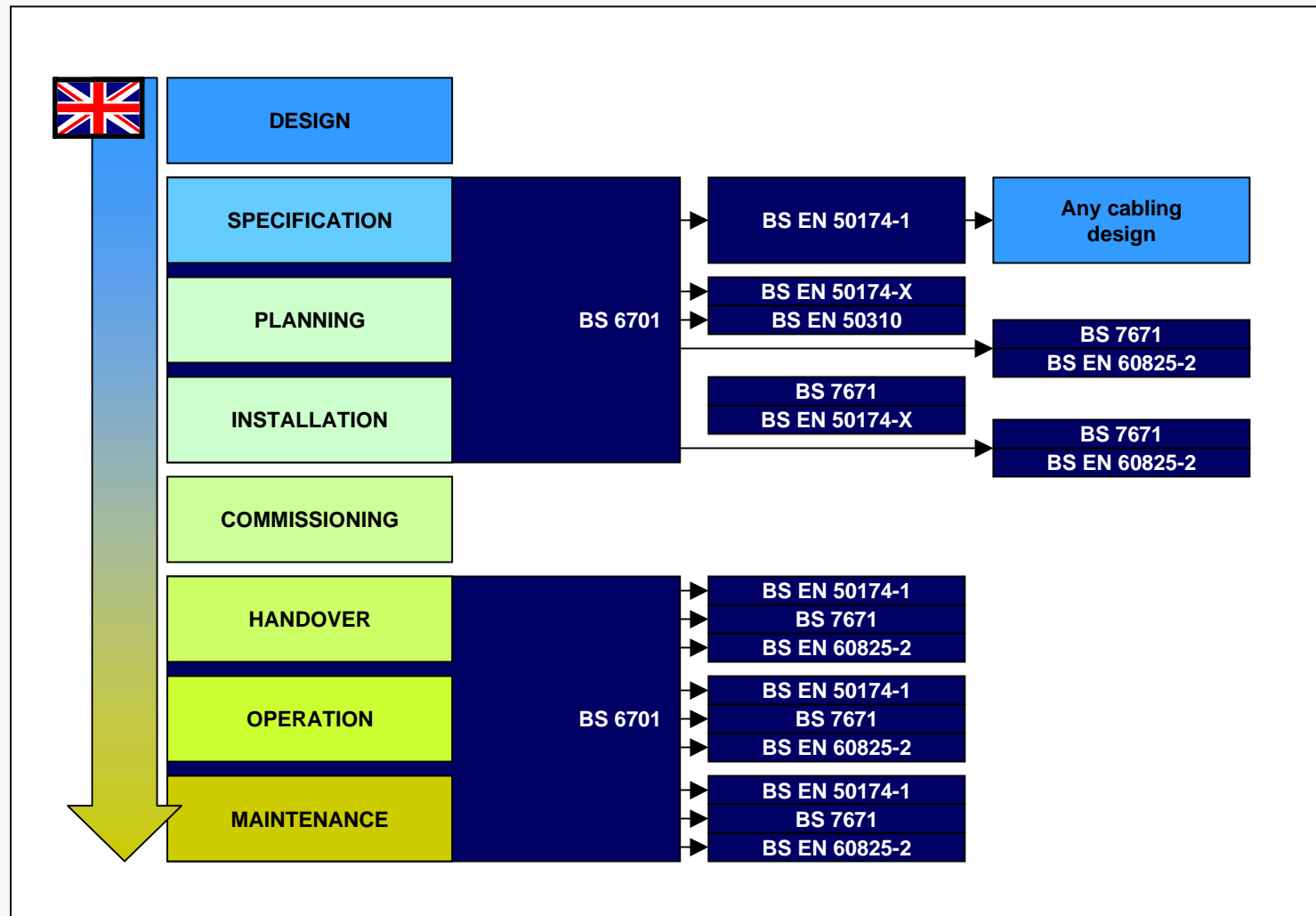
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Responsibility under BS 6701: 2004

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	BS 6701:2004	Telecommunications equipment and telecommunications cabling - Specification for installation, operation and maintenance
1	Foreword	
2	Scope	
3	Normative references	
4	Terms, definitions and abbreviations	
5	Requirements for installers of telecommunications equipment and telecommunications cabling	
	Requirements for owners of premises housing telecommunications systems	
	Bibliography	


INSTALLER	the person/organization undertaking the physical installation of the cabling	Clear, unambiguous Verifiable
OWNERS OF PREMISES	may delegate the responsibilities specified to authorized persons such as specifiers, operators and maintainers of the telecommunications systems.	

Roles and Responsibilities

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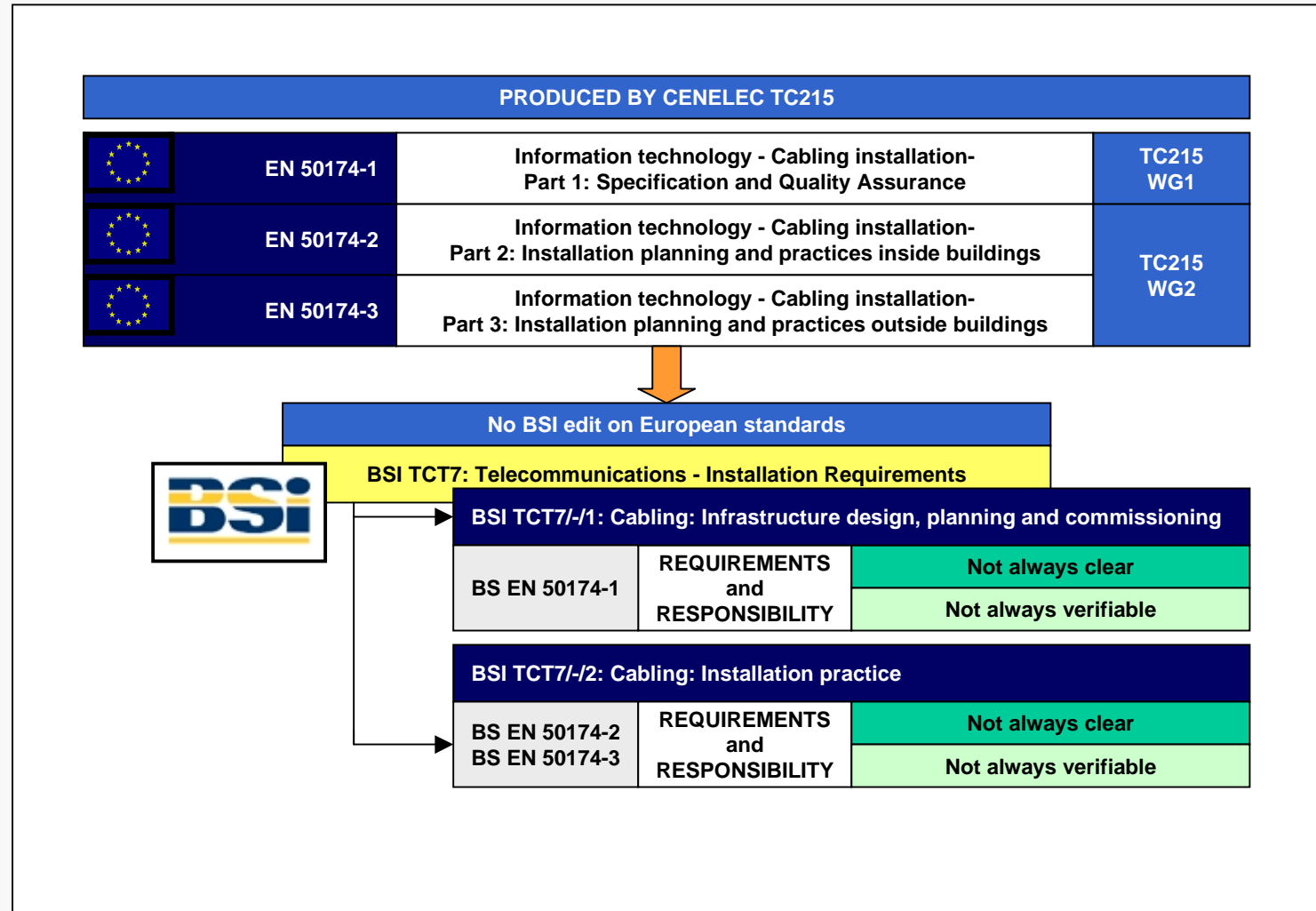
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	BS 6701:2004	Telecommunications equipment and telecommunications cabling - Specification for installation, operation and maintenance
	<p>Foreword</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms, definitions and abbreviations</p> <p>4 Requirements for installers of telecommunications equipment and telecommunications cabling</p> <p>5 Requirements for owners of premises housing telecommunications systems</p> <p>Bibliography</p>	
INSTALLER	4.1.1 Documentation	All relevant documentation shall be provided to enable the user to implement operating procedures for the telecommunications system(s).
OWNERS OF PREMISES	5.2 Operating procedures	Telecommunications equipment and telecommunications cabling shall be operated in accordance with the instructions provided by the installer.

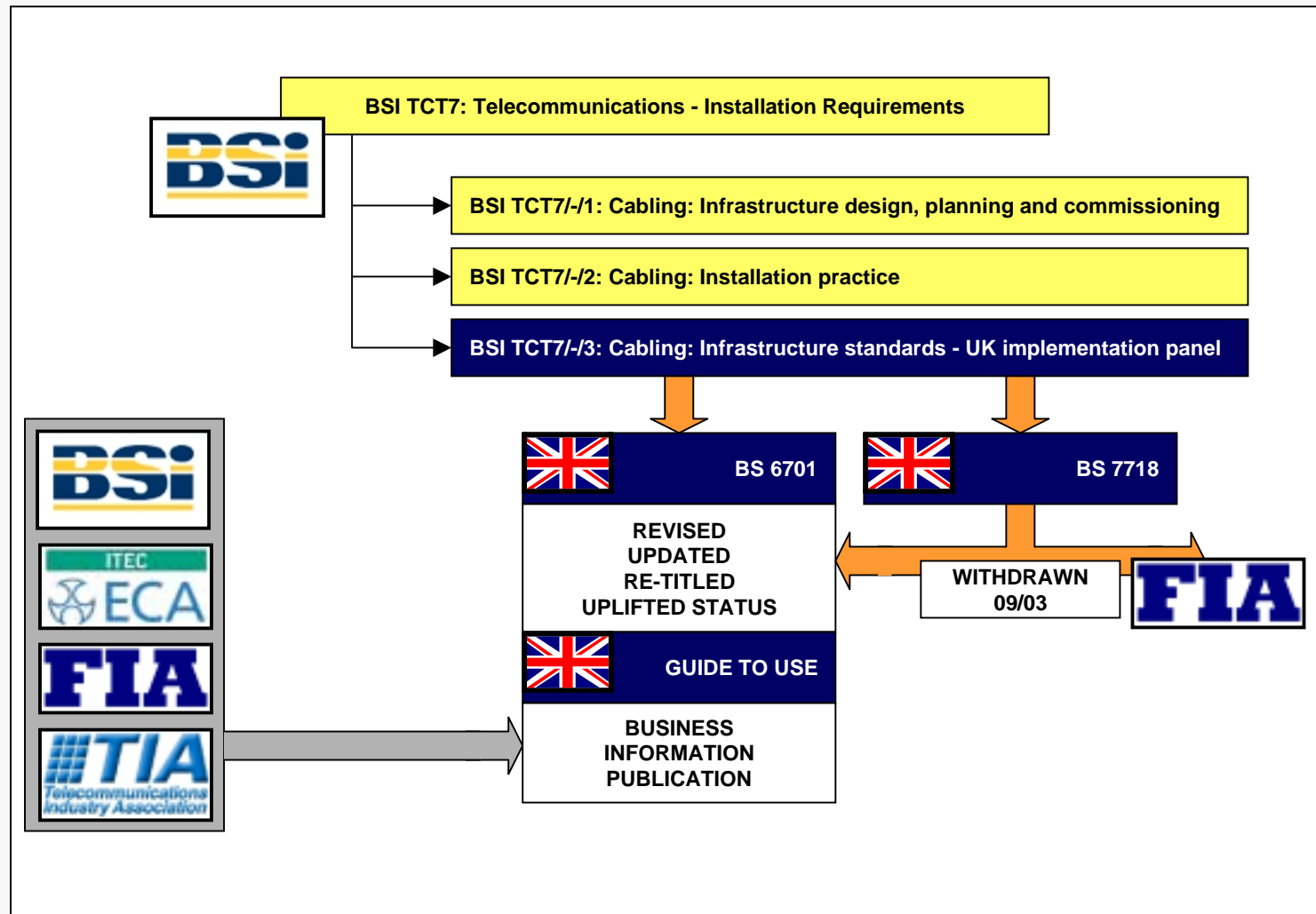
External References

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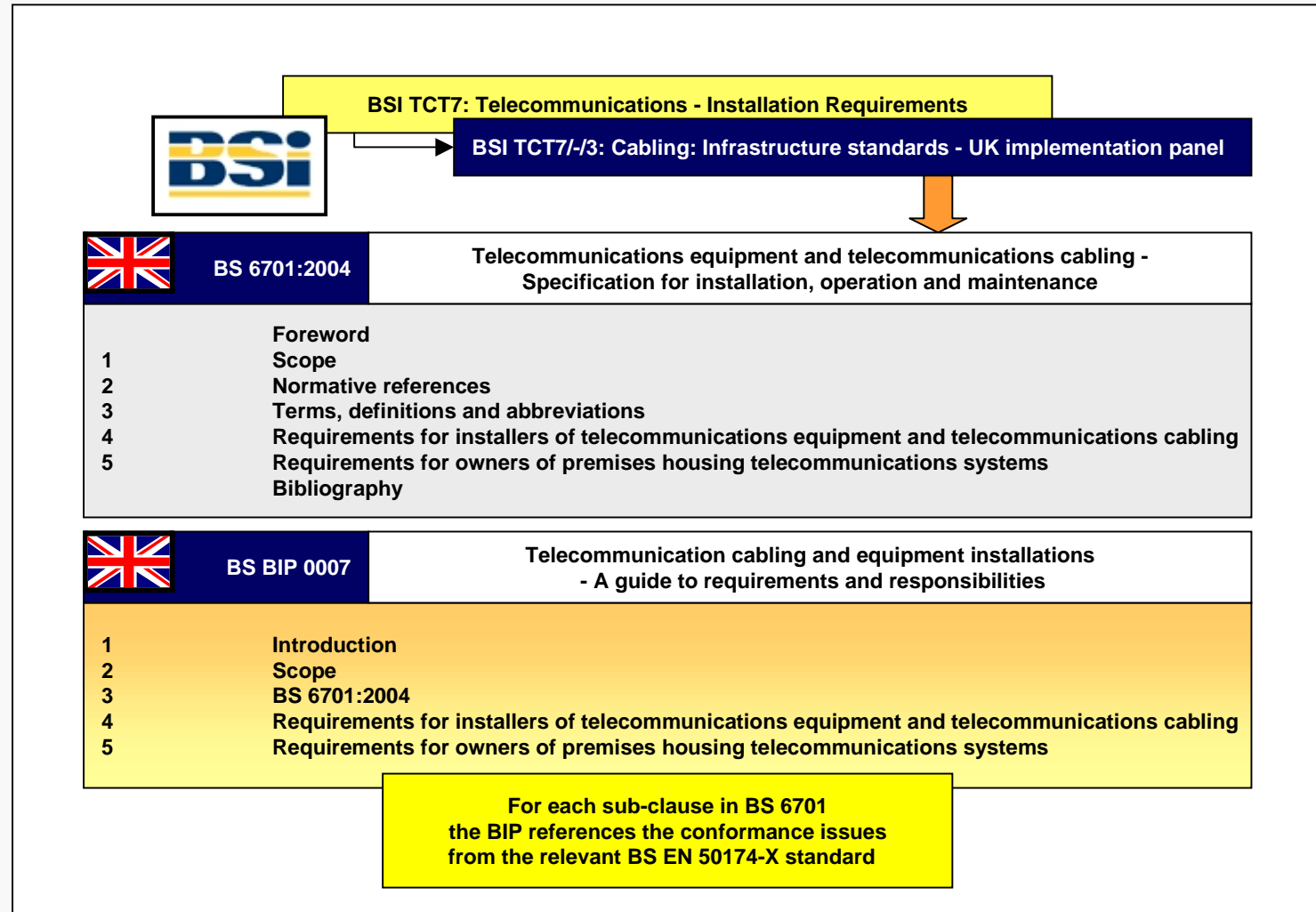
The Overall Plan

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BIP 0007

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Installation Specification - I

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INSTALLER'S RESPONSIBILITIES

PREMISES OWNER'S RESPONSIBILITIES



BS 6701:2004

Telecommunications equipment and telecommunications cabling -
Specification for installation, operation and maintenance

An installation specification shall be provided in accordance with BS EN 50174-1 for telecommunications equipment and telecommunications cabling other than that specified in BS EN 50174-1.

In addition, the installation specification shall define the approach to segregation of circuits with regard to electromagnetic interference in accordance with the BS EN 50174 series of standards.

The classification of areas containing optical fibre telecommunications equipment and optical fibre telecommunications cabling shall be undertaken in accordance with BS EN 60825-2.

Installation Specification - II

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INSTALLER'S RESPONSIBILITIES

PREMISES OWNER'S RESPONSIBILITIES



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Telecommunications equipment and telecommunications cabling -
Specification for installation, operation and maintenance

BS EN 50174-1

[5.1] requires that an Installation Specification be provided and shall contain a technical specification, scope of work and contractual requirements.

[5.2.2] contains requirements for the contents of the technical specification.

[4.3.1] requires that the physical and climatic environment of the premises be considered in terms of the performance of the cabling.

[4.4.1] requires that the specification of the components be adequate for the intended applications to be supported by the installed cabling.

[5.2.3] contains requirements for the contents of the scope of work.

[4.2.4] requires that growth in demand and/or resilience be considered.

[5.1] requires that an Installation Specification is agreed with the installer prior to the installation commencing.

[5.2.5] requires that modifications, changes and deviations to the Installation Specification are agreed between with the Installer.

Quality Plan

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INSTALLER'S RESPONSIBILITIES

PREMISES OWNER'S RESPONSIBILITIES



BS 6701:2004

Telecommunications equipment and telecommunications cabling -
Specification for installation, operation and maintenance

A quality plan shall be provided in accordance with BS EN 50174-1 for telecommunications equipment and telecommunications cabling other than that specified in BS EN 50174-1.

Installation, operating and maintenance instructions for all telecommunications equipment and telecommunications cabling shall be obtained.

BS EN 50174-1

[5.1] requires that a Quality Plan be provided.

[5.1] requires that a Quality Plan is agreed with the owner prior to the installation commencing.

[5.3] contains general requirements for a Quality Plan.

[5.1] requires that a Quality Plan is agreed with the installer prior to the installation commencing.

Documentation

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INSTALLER'S RESPONSIBILITIES

PREMISES OWNER'S RESPONSIBILITIES



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Telecommunications equipment and telecommunications cabling -
Specification for installation, operation and maintenance

Documentation shall be provided to the user detailing the power requirements of the telecommunications equipment to be supplied and installed.

All relevant documentation shall be provided to enable the user to implement operating procedures for the telecommunications system(s).

Final acceptance, as defined in the quality plan shall only proceed following marking, labelling and fitting of all components associated with the telecommunications cabling.

Information relating to telecommunications equipment and telecommunications cabling shall be complete and accurate.

The location of the CMET shall be documented and the information shall be available for inspection.

Maintenance

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PREMISES OWNER'S RESPONSIBILITIES



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Telecommunications equipment and telecommunications cabling -
Specification for installation, operation and maintenance

Independent of the configuration of installed telecommunications equipment and telecommunications cabling, there shall be a documented policy in the event of faults and breakdowns.

Operation

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PREMISES OWNER'S RESPONSIBILITIES



BS 6701:2004

Telecommunications equipment and telecommunications cabling -
Specification for installation, operation and maintenance

Telecommunications equipment and telecommunications cabling shall be operated in accordance with the instructions provided by the installer.

The selection and operation of optical fibre telecommunications equipment, test equipment and optical fibre telecommunications cabling shall be in accordance with BS EN 60825-2.

The operation of telecommunications equipment and telecommunications cabling in situations where explosive or flammable materials are generated, prepared, processed, handled, stored or otherwise encountered shall be carried out in accordance with BS EN 60079-14.

BS EN 50174-2

[4.2.1] requires that telecommunications equipment meets relevant specifications in relation to protection against electric shock.

[6.3.2] requires that screened cabling channels require continuous screen (tx to rx)

Repair

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INSTALLER'S RESPONSIBILITIES

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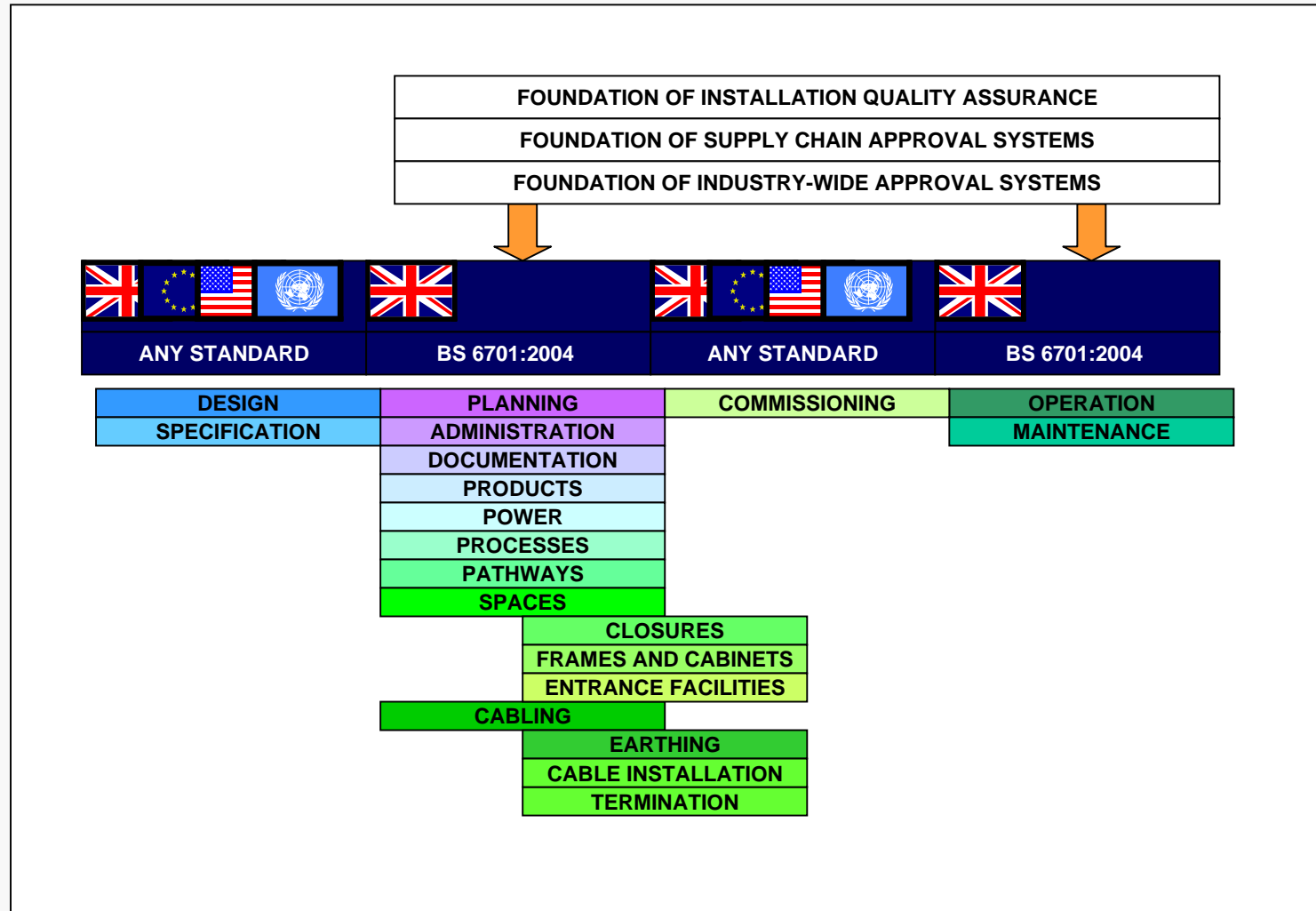
Telecommunications equipment and telecommunications cabling -
Specification for installation, operation and maintenance

The telecommunications equipment and telecommunications cabling shall be maintained in accordance with the instructions provided by the installer.

All relevant personnel shall be made aware of all policies required to maintain proper operation of the telecommunications system.

Quality Assurance and Approval Systems

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Timelines

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