

AUSTRALIAN
COMMUNICATIONS
INDUSTRY FORUM



INDUSTRY GUIDELINE

Companion to AS/ACIF S008:2006 Requirements
for customer cabling products

Comparison of the 2001 and 2006 editions

Industry Guideline – Companion to AS/ACIF S008:2006 Requirements for customer cabling products

First published in 2006

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INTRODUCTION

The AS/ACIF S008:2006 *Requirements for customer cabling products* Australian Standard, was published on 12 April 2006 to replace AS/ACIF S008:2001.

The requirements for customer cabling products used in the communications industry have been updated to meet the needs of the telecommunications, computing, fire and security industries with the release of AS/ACIF S008:2006. The Standard has been prepared by a wide-ranging working group representing the interests of carriers, consultants, defence, government, installers, trainers, manufacturers and test laboratories.

Differences between AS/ACIF S008:2006 and the previous 2001 edition are described in this Guideline to assist suppliers and importers of customer cabling and related customer equipment in identifying the changes that have been made to the 2006 edition.

If there are any differences in the information contained in this Guideline and the AS/ACIF S008:2006 Standard, the Standard remains the authoritative source.

Note: The AS/ACIF S009:2006, *Installation requirements for customer cabling (Wiring Rules)* Australian Standard was also published and is to replace AS/ACIF S009:2001 on 1 July 2006, and is complementary to AS/ACIF S008:2006.

Regulatory information

AS/ACIF S008:2006 remains a voluntary Standard until it is made by ACMA, listed in the *Telecommunications Labelling Notice* (TLN) and registered on the *Federal Register of Legislative Instruments*. At that time, the 2001 and 2006 editions of AS/ACIF S008 remain applicable Standards until the 2001 edition is withdrawn on a date set by the TLN (nominally 24 months after registration).

Note: Further information on the TLN can be found on ACMA's Telecommunications Standards and Compliance Regulatory Arrangements website at http://internet.aca.gov.au/ACMAINTER.65640:STANDARD:1816213096:pc=PC_2793

Availability

AS/ACIF S008:2006 and this companion Guideline can be downloaded from http://www.acif.org.au/documents_and_lists/standards.

Acknowledgement

ACIF gratefully acknowledges the work of Peter Meijer (editor of AS/ACIF S008:2006) and ADC Krone for preparing this companion guideline and making it available to ACIF for the benefit of the telecommunications industry.

GENERAL CHANGES

Structure

The Standard has been re-structured to assist users by grouping related information and as a result, several of the clause numbers have altered from AS/ACIF S008:2001.

Clauses 1 to 4 of the Standard refer to matters of Interpretation, References, Scope and Definitions. Clause 5 contains all the requirements divided into various sections;

- 5.1 General
- 5.2 Markings
- 5.3 Underground conduit
- 5.4 Cable distribution devices
- 5.5 Optical fibre distribution devices and enclosures
- 5.6 Cables
- 5.7 Connecting hardware, including plugs and sockets of all designs
- 5.8 Cabling products for underground and aerial installations

Key changes or inclusions

The most significant changes or inclusions are described below. The full list of changes and inclusions are identified in the **TABULATION OF CHANGES** commencing from Page 4.

Voltage classifications have been grouped together in the Definitions section. It is therefore clear that if the circuit runs at say 100 volts, like some PA and EWIS systems, it is an LV circuit.

The words 'Customer Access Equipment (CAE)' replace the words 'Customer Switching Systems (CSS)' because of recent alterations to the wording in AS/ACIF S003.

Flexible, corrugated and pliable conduits are all regarded to be subsets of conduit and their use is allowed under the Standard. However, AS/ACIF S009 warns that these flexible conduits should not be relied upon for drawing into long cable runs.

All references to Network Termination Device Enclosures (NTDE) have been removed in line with the removal of the NTDE from AS/ACIF S009.

The durability of Marking, like the marking of the word 'COMMUNICATIONS' on white underground conduits, has been improved and defined in terms its resistance to removal by water and petroleum spirits.

Clause 5.6 dealing with cables has been restructured in such a way that it first specifies the requirements of a range of parameters, such as UV resistance, insulation resistance, water penetration and others, then nominates the cabling products where these parameters must be applied.

The use of shared enclosures containing conductors and terminations of telecommunications cables and LV power cables is prohibited unless strict precautions are taken to prevent accidental contact with live LV parts and the enclosures are in 'Restricted Access Locations'. This allows trained staff with both electrical and telecommunications qualifications to install and maintain equipment in the growing market of computer controlled building automation systems.

There are defined requirements for blown fibre tubing systems associated with optical fibres. Requirements have also been set for cables intended for use within a building and for cables intended for use underground. The Water Penetration Test remains for underground telecommunications cable and a note has been added to provide guidance on even higher protection against moisture entry. Underground telecommunications cables are likely to be exposed to UV radiation (sunlight) where they enter and exit the ground, so underground cable must meet the requirements of AS 1049 for cables exposed to UV radiation.

Cables intended for aerial use without a separate catenary support must contain an integral bearer/strengthener. These requirements are better defined and product data sheets for these are required to specify a range of installation parameters such as maximum span, tension, sag, wind speed and temperature.

The use of Manufacturer's Product Data Sheets has been included as something that can be relied upon to meet the requirements of the Standard. This means that manufacturers, vendors and importers will have to ensure the product data sheet is a reliable technical document.

In Table 5 of the Standard, mutual capacitance and capacitance imbalance requirements have been restricted to metallic telephone cable designed to carry signals in the 300 Hz-100 kHz bandwidth.

Metallic paired cable intended to carry a frequency of 300 Hz or greater must be of shielded or twisted pair construction.

The installation of 600 series telephone sockets is no longer supported for new installations. 8-position modular sockets are the higher performing replacement.

Cable colour codes have been included in an informative appendix to the Standard.

TABLULATION OF CHANGES

Translation of AS/ACIF S008:2001 to AS/ACIF S008:2006 is presented in the following pages in tabular format. This will help you determine whether a current requirement has been carried into the new Standard and what changes, if any, have been made. It will also help you identify clause number changes for any documents that refer to specific clauses in AS/ACIF S008:2001. The table can also be used in reverse, i.e. to identify the corresponding clause, table or figure in AS/ACIF S008:2001 for a particular clause, table or figure in AS/ACIF S008:2006 — or whether a clause in AS/ACIF S008:2006 is a new requirement altogether.

The first column contains the old AS/ACIF S008:2001 clauses and tables. The second column contains the corresponding clauses and tables in the new AS/ACIF S008:2006 Standard. A reference to 'the Act' is a reference to the *Telecommunications Act 1997*.

Old clause S008:2001	New clause S008:2006	Subject & changes (if any)	Reason/Comments Referenced to S008:2006
Foreword, General	Foreword, General	Added preparation by WC18 ACA name changed to ACMA	Editorial changes only
Intellectual property	Intellectual property	Intellectual property rights	No change
Standards revision	Standards revision	Standards revision	No change
Regulatory notice	Regulatory notice	Added reference to regulatory adoption by ACMA under Commonwealth Law	Editorial changes only
—	Introduction	Objective of this Standard and major differences from S008:2001	New – for the information of readers
Contents	Contents	Contents	Editorial changes to reflect contents changes
1	1	Interpretation	No change
1.1	1.1	Categories of requirements	No change
1.2	1.2	Compliance statements Added reference to customer cabling and related CE	Editorial change
1.3	1.3	Definitions, expressions & terms	No change
1.4	1.4	Notes	No change
1.5 1.5.1 1.5.2 1.5.3 1.5.4 1.5.5 1.5.6	1.5 1.5 (a) 1.5 (b) 1.5 (c) 1.5 (d) 1.5 (e) —	References Discrepancy between Standards removed	No change to heading Editorial change to numbering, no change to content This Standard takes precedence because its application is mandatory

Old clause S008:2001	New clause S008:2006	Subject & changes (if any)	Reason/Comments Referenced to S008:2006
1.6	1.6	Units & symbols	No change
2	2	Scope	No Change to heading
2.1	—	Clause numbers removed.	NUMBERING unnecessary here
2.2	—	Added wording to better explain the exclusion of products for earthing and telecommunications power distribution.	Editorial change for clarity
2.3	—		
2.4	—	CSS changed to CAE	Wording changed in AS/ACIF S003
3	3	References	Updated to latest publications
4	4	Abbreviations and definitions	No change to heading
4.1	4.1	Abbreviations Deleted: CSS, ESSA, ITU-T, NID, NTDE, PDG, PE, Pr, SCD, SELV, TIA, UPVC Deleted all references to metric units. Added: ACIF, ACMA, CAE, CES, PVC, UV	Not used in S008 Standard Metric units are contained in AS ISO 1000 All used in draft S008 Standard
4.2	4.2	Definitions	No change to heading
—	4.2.1	AC mains supply	New – replaces 'mains power'
—	4.2.2	Aerial cable	New – clarifies aerial cable is suspended between poles or buildings
—	4.2.3	Cable	New – included to make a distinction between 'cable' and 'cabling products'
4.2.1	4.2.4	Cabling products	Editorial changes only
4.2.2	4.2.5	Carriage service	The Note becomes the definition
4.2.3	4.2.6	Carriage service provider	Editorial changes only. This is the basic definition derived from the Act.
4.2.4	4.2.7	Carrier	The Note becomes the definition
4.2.5	4.2.8	Certified Components List	Updated. ACA becomes ACMA
—	4.2.9	Communications Earth System	New – defines the earthing system
—	4.2.10	Compliant	New – indicating compliance with the Telecommunications labelling Notice
—	4.2.11	Conduit	New – defined as a cable pathway and included a pipe. Note included to also see Duct and Trunking

Old clause S008:2001	New clause S008:2006	Subject & changes (if any)	Reason/Comments Referenced to S008:2006
4.2.6	4.2.12	Connecting hardware	No change
4.2.7	4.2.13	Cord	Editorial changes plus definition altered to allow for termination on one end only
4.2.8	4.2.14	Cordage	Editorial change only
—	4.2.15	Customer Access Equipment (CAE)	New – replaces Customer Switching System (CSS)
4.2.9	4.2.16	Customer cabling	The Note becomes the definition
4.2.10	4.2.17	Customer Equipment	Editorial changes to include words from the Act
4.2.11	—	Customer Switching System (CSS)	Deleted – now called MDF
4.2.12	4.2.18	Distributor	Editorial changes only
—	4.2.19	Duct	New – to distinguish it from 'Conduit' and 'Trunking'
4.2.13	4.2.20	Enclosure	No change
4.2.14	4.2.21	Extra low voltage	Editorial changes. Grouped under 'Voltage classifications' Clause 4.2.43
4.2.15	4.2.22	Facility	Editorial changes to include words from the Act
—	4.2.23	Hazardous voltage	New - Grouped under 'Voltage classifications' Clause 4.2.43
4.2.16	4.2.24	High voltage	Editorial changes. Grouped under 'Voltage classifications' Clause 4.2.43
—	4.2.25	Hybrid cable	New – to distinguish it from 'cable' and 'special applications cable'
4.2.17	4.2.26	Indoor cabling	Editorial changes only
4.2.18	4.2.27	Jumper	Expanded
—	4.2.28	Lead-in cabling	New – defines the carrier's cabling up to the network boundary
4.2.19	4.2.29	Line	The Note becomes the definition
4.2.20	4.2.30	Low voltage	Editorial changes. Grouped under 'Voltage classifications' Clause 4.2.43
4.2.21	4.2.31	Multidiscipline - examples added to the Note	Editorial changes for clarity
4.2.22	—	Network boundary distributor	Deleted – now called MDF
—	4.2.32	Main Distribution Frame (MDF)	New – previously called Network boundary distributor – same definition

Old clause S008:2001	New clause S008:2006	Subject & changes (if any)	Reason/Comments Referenced to S008:2006
4.2.23	4.2.33	Network termination device (NTD)	Editorial changes and Note 1 deleted
4.2.24	—	Network termination device enclosure - deleted	Deleted – NTDE has been removed from AS/ACIF S009
4.2.25	4.2.34	Outdoor cabling – Name changed Outdoor cable	Editorial changes to describe just the product
4.2.26	4.2.35	Pigtail	No change
—	4.2.36	Power feeding	New – defines transfer of electrical power on telecommunications cables
—	4.2.37	Special applications cable	New – to distinguish it from 'cable' and 'hybrid cable'
4.2.27	4.2.38	Telecommunications network	New – derived from the Act
4.2.28	4.2.39	Telecommunications network voltage (TNV) circuit	Editorial changes. Grouped under 'Voltage classifications' Clause 4.2.43
—	4.2.40	Telephone cable	New – to distinguish it from higher bandwidth data cable
—	4.2.41	Trunking	New – to distinguish it from 'conduit' and 'duct'
—	4.2.42	Underground cable	New – to distinguish it from other outdoor cable
—	4.2.43	Voltage classifications	New – all voltage classifications are grouped together for easy comparison
5	5	Requirements	No change to heading
5.1	5.1	General	No change to heading
5.1.1	5.1	'Different from a.c. mains cable & products'	Editorial changes only
5.1.2	—	Distributors - deleted here	Applies in Clause 5.4
5.1.3	—	NTDEs - deleted	NTDE has been removed from AS/ACIF S009
5.1.4	—	Cable - deleted here	Applies in Clause 5.6
5.2	5.2	Markings	No change to heading
5.2.1	—	General - deleted	Heading not necessary
5.2.1.1	5.2.1	Labelling – changed to Labelling Notice and Notes added	Editorial changes only for clarity
5.2.2	—	Requirements - deleted –	Heading not necessary
5.2.1.2	5.2.2	Cabling products – changed to Inappropriate Markings	Editorial changes only

Old clause S008:2001	New clause S008:2006	Subject & changes (if any)	Reason/Comments Referenced to S008:2006
5.2.1.3	5.2.3	Cabling products (excluding cable) – Name changed to Additional markings (excluding cable markings)	Editorial changes only
5.2.1.3 (a)	5.2.3.1	International protection (IP) rating	Editorial changes only
5.2.1.3 (b)	5.2.3.2	Multidiscipline telecommunications connecting hardware	Editorial changes only
5.3	5.3	Outdoor telecommunications conduit/pipe – Name changed to <i>Underground conduit</i>	To clarify the requirements only apply to underground conduit
5.3.1	5.3.1	Colour	No change to heading
5.3.1.1	5.3.1 (a)	'Coloured white' or	Heading deleted. Same requirements. Text expanded for clarity
5.3.1.2	5.3.1 (b)	'White stripe'	Heading deleted. Same requirements.
5.3.2	5.3.2	Outdoor conduit/pipe minimum requirements – name changed to Underground conduit properties	Editorial changes only
—	5.3.3	Underground conduit marking	New heading
	5.3.3.1	General – New – Applies to non-metallic conduit	New to define marking requirements
—	5.3.3.2	Marking durability	New – sets durability criteria
5.4	5.4	Cable distribution devices	No change to heading
5.4.1	5.4.1	Common requirements	No change to heading
5.4.1.1	5.4.1.1	Cable Entry	No change
5.4.1.2	5.4.1.2	Conductive enclosure	No change to heading
5.4.1.2.1	5.4.1.2.1	Enclosure, frame and backmount earthing - added reference to S009 requirements	Same requirements
5.4.1.2.2	5.4.1.2.2	Insulation – Note added regarding face plates	Same text but terminals connected to the enclosure itself are exempted. Note added for clarity
5.4.1.3	5.4.1.3	Enclosure requirements	No change to heading
5.4.1.3.1	5.4.1.3.1	Openings	No change
5.4.1.3.2	5.4.1.3.2	Sharp edges	Same text with 'injury to cabler' changed to 'injury to any person'

Old clause S008:2001	New clause S008:2006	Subject & changes (if any)	Reason/Comments Referenced to S008:2006
5.4.1.3.3	5.4.1.3.3	Outdoor enclosures	Editorial changes, plus 10 times open/close requirement added in Compliance
5.4.1.3.4	5.4.1.3.4	Shared enclosures	Same requirements retained, but substantial alterations to allow for termination of telecommunications cables and LV cables on equipment associated with building control and monitoring equipment. 'Restricted access location' note added. 'Compliant isolating device' note added.
5.4.1.4	5.4.1.4	Link bar or strip insulation – name changed to Earthing or bonding bars and terminals	To align wording with AS/ACIF S009 requirements
5.4.1.4.1	5.4.1.4.1	Insulation - New heading,	Same requirements
—	5.4.1.4.2	Earthing or bonding conductor connections	New – must meet the requirements of AS/ACIF S009
5.4.1.5	5.4.1.5	Surge suppression devices	Same requirements. Editorial changes. Explanation notes added
5.4.2	5.4.2	Network boundary distributors - Name changed back to <i>Main Distribution Frame (MDF)</i>	Change of heading only
5.4.2.1	—	Requirements	Deleted - unnecessary
5.4.2.2	5.4.2.1	Fire resistance and flammability – Name changed to ' <i>Flame propagation</i> '	Same requirements. Explanation Note added that MDF may be source of ignition during overvoltage surges
5.4.2.3	5.4.2.2	Locking - Name changed to <i>Security</i>	Same requirements. Editorial heading change only
5.4.2.4	5.4.2.3	Terminations – 'terminating system' changed to 'terminating modules for lead-in cable'	Editorial change only for clarity
5.4.2.5	5.4.2.4	Space for Surge Suppression Devices	Same text. Note added to provide clearance on customer's side for possible fitting of surge suppression devices
5.5	—	NTD Enclosure	All requirements for NTDEs have been removed because NTDEs have been removed from S009
5.5.1	—	Common Requirements	
5.5.1.1	—	Space for mounting Network Termination Device inside enclosure	
5.5.1.2	—	Test or termination devices within the NTD enclosure	

Old clause S008:2001	New clause S008:2006	Subject & changes (if any)	Reason/Comments Referenced to S008:2006
5.5.1.3	—	Weather Protection	cont:
5.5.1.4	—	General construction	
5.5.1.5	—	Mounting	
5.5.1.6	—	Mechanical Integrity	
5.5.1.7	—	Locking	
5.5.1.8	—	Earthing	
5.5.1.9	—	Insulation	
5.5.1.10	—	Shared enclosure	
5.5.1.11	—	Fire resistance and flammability	
5.5.1.12	—	Labelling	
5.6	5.5	Optical fibre enclosures – changed to Optical fibre distribution devices and enclosures	Editorial change. Previous heading now unnecessary
5.6.1	—	Optical fibre distribution devices and splice enclosures – heading deleted	Editorial changes only. Heading was unnecessary. Text moved to Clause 5.5
5.7	5.6	Customer cables – Name changed to Cables	Heading change because the whole of S008 relates to Customer products
5.7.1	5.6.1	Application – Name changed to General	Applies to all cables
5.7.2	5.6.1	General	Editorial change of heading only
5.7.2.1	—	Cable	Heading deleted
5.7.2.1.1 Amdt1, 2001	5.1	Different from power cables.	Editorial changes only. Same requirements
5.7.2.1..2 Amdt1, 2001	5.6.8	Water penetration test	Editorial changes only. Same requirements. Notes added to provide info on even higher protection against moisture and ant/termite attack
5.7.2.1..3 Amdt1, 2001	4.2.37 & 5.6.18	Multidiscipline cable	Multidiscipline cable is defined as a Special application cable. Same requirements as previous
5.7.2.1.4 Amdt1, 2001	5.6.17	Blown fibre tube system	Editorial changes only. Same requirements

Old clause S008:2001	New clause S008:2006	Subject & changes (if any)	Reason/Comments Referenced to S008:2006
5.7.2.2 5.7.2.2.1 5.7.2.2.2 5.7.2.2.3 5.7.2.2.3 b All these are Amdt1, 2001	5.6.3 5.6.3(a) 5.6.3(c) 5.6.3(b) 5.6.5	Insulation and sheath material Suitable for telecommunications use Non-PVC insulation and sheath PVC insulation and sheath Exposure to UV	Same requirements. Editorial changes only Exposure to UV has moved to its own Clause 5.6.5 UV resistance
—	5.6.5	UV resistance	New heading. Sets UV requirements for cable intended for use external to a building or underground
5.7.2.3	5.6.2	Conductor and optical fibre identification	Editorial changes. Same requirements
5.7.2.4	5.6.4	Flammability	Editorial changes. Same requirements
Table 1	Table 1	PVC insulation requirements - elongation at break reduced	To comply with International Standards
Table 2	Table 2	PVC sheath requirements - elongation at break reduced	To comply with International Standards
5.8	5.6.6	Requirements of metallic customer cables - Name changed to <i>Metallic conductors</i>	Editorial heading change only
5.8.1	5.6.6.1	Conductors – Name changed to <i>Conductor composition</i> . Reference to Tinning Test deleted	Same requirements. Tinning test Standard has been withdrawn with no replacement
Table 3	Table 3	Conductor resistance	No change
5.8.1.1	5.6.7	Shield – Name change to <i>Metallic shield</i>	Same requirements
5.8.2	—	Electrical characteristics of metallic customer cables	Heading deleted
5.8.2.1	5.6.6.2	Withstand voltage – Name change to <i>Electrical withstand voltage</i>	Same requirements
Table 4	Table 4	Cable withstand voltages – Voltages for cordage reduced	To comply with International Standards
5.8.2.2	5.6.6.3	Mutual capacitance	Same requirements. Applies to telephone cable only
5.8.2.3	5.6.6.4	Capacitance unbalance	Same requirements. Applies to telephone cable only
5.8.2.4	5.6.6.5	Insulation resistance	Same requirements. Editorial changes only

Old clause S008:2001	New clause S008:2006	Subject & changes (if any)	Reason/Comments Referenced to S008:2006
Table 5	Table 5	Cable performance parameters – Name change to <i>Metallic cable performance parameters</i>	Same requirements. Name change to distinguish it from optical cable requirements
—	5.6.15	Coaxial cable	New heading
5.8.2.5	5.6.15.1	Additional electrical requirements of coaxial cable – Name changed to <i>General requirements</i>	The requirements for coaxial cable have been collected into one heading for clarity. No change to previous requirements, but integral bearer or strengthener requirements have been added
5.8.2.5.1	5.6.15.2	Velocity ratio	No change
5.8.2.5.2	5.6.15.3	Characteristic impedance	No change
5.8.2.5.3	5.6.15.4	Attenuation	No change
5.8.3	5.6.14	Jumper wire – Name change to <i>Metallic jumper wire and jumper cable</i>	For clarity
5.8.3.1	5.6.14.1	General requirements	Same requirements. Editorial changes only
5.8.3.2	5.6.14.2	Twist rate	Same requirements
—	5.6.8	Water penetration test	New Clause – [previously 5.7.2.1.2 Amdt1, 2001] Notes added to provide info on even higher protection against moisture and ant/termite attack
—	5.6.9	Integral bearer or strengthener	New Clause – Specifies requirements for aerial cable. Manufacturer's product data sheets are now required to contain specific information for aerial cable
—	5.6.10	Cable with specific attributes	New – Attributes such as rodent or termite resistance or armouring strength must be stated on the Product Data Sheet. Compliance is to be assessed by the manufacturer's declaration stating the basis of the declaration
—	5.6.11	Metallic paired cable - New heading	
—	5.6.11.1	General requirements – New heading.	The requirements for metallic paired cable have been collected into one heading for clarity. There is no change to previous requirements

Old clause S008:2001	New clause S008:2006	Subject & changes (if any)	Reason/Comments Referenced to S008:2006
—	5.6.11.2	Construction – New – Cable carrying a frequency greater than 300 Hz must be of twisted pair construction	To minimise crosstalk into telecommunications cables
5.8.4	5.6.12	Metallic cordage – Name change to Cordage with metallic conductors	Same requirements. Editorial name changes to distinguish it from optical cordage
5.8.4(b)	5.6.12.1	Now called 'General requirements'	Same requirements
5.8.4(a)	5.6.12.2	Now called 'Conductor composition'	Same requirements
—	5.6.13	Cords with metallic conductors	New heading
—	5.6.13.1	General requirements New – sets specific requirements. Also, cords <10m are not required to be tested for Insulation and sheath materials	The cord exemption was previously an exemption under TS008:1997 and cords have generally been 'grand-fathered' since then. This requirement now caters for shorter cords.
—	5.6.13.2	Cords exceeding 10m in length - New - these cords must be tested for Insulation and sheath materials, and also for Mutual capacitance and Capacitance unbalance if intended for use as a telephone cord	These longer cords must meet the requirements stated because longer cords may be located in concealed pathways, like office partitions
5.8.4(c)	5.6.13.3	Cord anchorage or strain relief	Same requirements. Editorial changes only
5.9	5.6.16	Requirements of optical fibre customer cables and cords – Name change to <i>Optical fibre cable</i>	Editorial change to heading
—	5.6.16.1	General requirements	The requirements for optical fibre cable have collected into one heading for clarity. No change to previous requirements, but Integral bearer or strengthener requirements have been added
5.9.1	5.6.16.2	Optical fibre – Name change to <i>Fibre requirements</i>	Same requirements
5.9.2	5.6.16.3	Requirements of optical fibre customer cables – Name change to <i>Mechanical and environmental performance</i>	Same requirements. Supplier's 'Type Test Report' has been changed to supplier's 'Product Data Sheet'
5.9.3	5.6.16.4	Requirements of optical fibre customer cords – Name change to <i>Optical fibre cords</i>	Same requirements. Editorial changes only
—	5.6.17	Blown fibre tube systems	New heading

Old clause S008:2001	New clause S008:2006	Subject & changes (if any)	Reason/Comments Referenced to S008:2006
—	5.6.17.1	General requirements	The requirements for blown fibre tube systems have collected into one heading for clarity. The Water penetration test is not a requirement
—	5.6.17.2	Outer tube or sheath	New IPX8 requirement for tubes
5.10	5.6.18	Requirements of cables intended for special applications Name change to <i>Special applications cables</i>	Editorial heading change only
—	5.6.18.1	Compliance	New – applies to cables intended to be connected to a carrier's network
5.10.1	5.6.18.2	General requirement	Editorial change only. Flammability test compliance if installed in a building
5.10.2	5.6.18.3	Metallic cables – Name change to <i>Cable with metallic conductors</i>	Some editorial changes. Technical change made to have Mutual capacitance and Capacitance unbalance applicable to telephone cable only
Table 6	Table 6	Australian Standards applicable for cables used in special applications	Same requirements, but Travelling Cables have been deleted because AS/NZS 1979 has been withdrawn. Hybrid and Other cables have been added
5.11	5.7	Connecting hardware, including plugs and sockets of all designs	Editorial change - 'including' added into heading for clarity
5.11.1	5.7.1	General	No change to heading
5.11.1.1	5.7.1.1	Insulation resistance – the Note is changed into a Compliance clause	To recommend an acceptable test method
5.11.1.2	5.7.1.2	Contact resistance	No change to heading
5.11.1.2 (a)	5.7.1.2.1	Insulation displacement contacts	No change to requirements
5.11.1.2 (b)	5.7.1.2.2	Plug and socket connections	Editorial changes. Technical change more clearly specifies the overall resistance of a mated connection. Test method specified
5.11.1.3	5.7.1.3	Electric strength	No change
5.11.1.4	5.7.1.4	Protection against contact with exposed circuits	No change
5.11.1.5	5.7.1.5	Weather resistance– reference to AS 1939 changed to AS 60529	Standard has been replaced

Old clause S008:2001	New clause S008:2006	Subject & changes (if any)	Reason/Comments Referenced to S008:2006
5.11.2	5.7.2	Eight (8) position modular plugs and sockets	Technical requirements more clearly defined
5.11.3	5.7.3	Six (6) position modular plugs and sockets	No change
5.11.4	5.7.4	600 series plugs and sockets	600 series are not supported for new installations. Requirements moved to Appendix A
—	Appendix A	600 Series Plugs And Sockets - New Appendix	Requirements that were in Clause 5.11.4 have been moved to this new appendix
—	Appendix A1	General	New heading
5.11.4.1	Appendix A2	Contact composition	Same requirements
5.11.4.1	Appendix A3	Mechanical compatibility	Refers reader to Figure A1
5.11.4.2	Appendix A4	Connections	Same requirements
5.11.4.3	Appendix A5	Resistance of plug/socket combination	Overall resistance reduced from 75 to 50 ohms, same as for Clause 5.7.1.2.2
Figure 1	Appendix Figure A1	Mating dimensions for 600 series plugs and sockets	No change
5.12	5.8	Cabling components for use on underground and aerial installations	'Cabling products' changed to 'Cabling components' in heading
5.12.1	5.8.1	Pits	Same requirements. Editorial changes only.
5.12.2	5.8.2	Underground joint/termination enclosures	Same requirements. Editorial changes only.
5.12.3	5.8.3	Underground and aerial cable terminations	Editorial changes only
5.12.4	5.8.4	Pillars and cabinets	Same requirements. Editorial changes only
5.12.5	5.8.5	Aerial joint/termination enclosures – Note added for terminations in aerial enclosures	Same requirements. Editorial changes only
—	Annex B	Cable colour codes (informative)	New – This is a copy of Annex B in S009 and describes the fibre and copper pair colour codes for a range of commonly used cables

NOTES

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