

ISO/IEC 14763-5:2025-05 (E)

Information technology - Implementation and operation of customer premises cabling - Part 5: Sustainability

Contents	Page
FOREWORD.....	5
INTRODUCTION.....	7
1 Scope.....	10
2 Normative references	10
3 Terms, definitions and abbreviated terms	10
3.1 Terms and definitions.....	10
3.2 Abbreviated terms.....	12
4 Conformance	12
5 Cabling design.....	12
5.1 Overview.....	12
5.1.1 General	12
5.1.2 Consideration criteria to sustainable cabling systems	13
5.2 Cabling design selection criteria	14
5.3 Considerations for renovation	14
5.4 Reduction of waste materials during the lifetime of the installation	15
5.5 Cabling infrastructure installation planning and practices	15
5.6 Impact of cabling infrastructure on energy requirements	15
5.7 Designing for quality to reduce rework	16
5.8 Balancing sustainability and other considerations	16
5.9 Recommended metrics to evaluate cabling sustainability	16
5.10 Creating sustainability mind-set among stakeholders	16
5.11 Economic aspects of sustainability.....	17
5.12 Transparency of documents for sustainable cabling system	17
6 Selection, packaging and transportation of components and related materials	17
6.1 General.....	17
6.2 Selection of components and related material	18
6.3 Packaging of components and related material	18
6.4 Transportation of components and related material.....	18
7 Installation, operation and maintenance.....	19
7.1 General.....	19
7.2 Process of installation, maintenance and operation.....	19
7.2.1 General	19
7.3 Installation practices	20
7.3.1 Recommendations for installation practices	20
7.3.2 Pre-installation step requirements.....	20
7.3.3 Installation step	20
7.3.4 Post-installation step	21
7.4 Operation.....	22
7.4.1 Requirements	22
7.4.2 Recommendations	22
7.5 Maintenance	23
7.5.1 Requirements	23
7.5.2 Recommendations	23
8 Management of waste materials	24
8.1 General.....	24
8.2 Cabling waste hierarchy.....	24

8.3	Waste electrical and electronic equipment	25
8.4	Waste assessment.....	25
8.5	Documentation.....	25
8.5.1	Waste management plan	25
8.5.2	Proof of assessment.....	26
8.5.3	Certificate of recycling	27
8.6	Waste storage and handling.....	27
8.6.1	Storage and handling.....	27
8.6.2	Risks	27
8.7	Waste actions	27
8.7.1	General	27
8.7.2	Reuse.....	28
8.7.3	Repurpose.....	28
8.7.4	Recycle	28
8.7.5	Dispose	29
9	Skill sets and training objectives.....	29
9.1	Overview.....	29
9.1.1	General	29
9.1.2	Needs of stakeholders	29
9.2	Work performance abilities, competencies and skill sets	30
9.3	Generic work performance ability requirements.....	30
9.3.1	General	30
9.3.2	Understanding of and contribution to SDGs	31
9.3.3	Collaboration with stakeholders	31
9.3.4	Education and training.....	31
9.4	Specialized work performance ability requirements	31
9.4.1	General	31
9.4.2	Understanding of requirements for sustainable cabling systems	32
9.4.3	Approaches for reduction of environmental footprints.....	32
9.4.4	Designing practices	32
9.4.5	Installation management and evaluation practice.....	32
9.4.6	Installation practice.....	33
9.4.7	Operation, management and maintenance of sustainable cabling systems	34
9.5	Best practices, education and training.....	35
9.5.1	Collection and publication of best practices	35
9.5.2	Sustainability specialist for sustainable cabling system and training	35
9.5.3	Criteria and means of evaluation	35
Annex A (informative)	Example of skill sets for work performance.....	37
Annex B (informative)	Example of syllabus	39
Bibliography.....		40
Figure 1 – Schematic representation of cabling standards in system lifecycle		8
Figure 2 – Schematic relationship between ISO/IEC 14763-5 and other relevant standards.....		9
Figure 3 – Process flow from design to disposal		19
Figure 4 – Cabling waste hierarchy		24
Figure 5 – Work performance ability requirements designated for stakeholders		30
Table 1 – Sustainability criteria		13
Table 2 – Aspects valued by stakeholders and satisfaction indexes		29