DIN 15765:2020-11 (E)

Entertainment Technology - Multi-core cable systems for mobile productions and entertainment technology

Contents

Page

Foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 7

4 Types 8
4.1 General 8
4.2 Power class 8
4.3 Number of circuits 8
4.4 Connectors and contact assignment 9
4.4.1 General 9
4.4.2 Types and contact assignment for different connectors 9

5 Requirements for connectors 11
5.1 General requirements 11
5.2 Particular requirements 12

6 Requirements for plugboxes 12

7 Cables 12
7.1 General 12
7.2 Requirements for the insulating material 13
7.3 Conductor cross-section 13
7.4 Cable length 13

8 Electrical safety 13
8.1 General 13
8.2 Personal protection 14
8.3 Cable protection 14

Annex A (normative) **Criteria for the dimensional accuracy of type D** 15

Annex B (informative) **Permitted cable lengths for PVC or rubber cables** 16

Annex C (informative) **Criteria for the configurations of connectors** 17
C.1 Configurations of connectors in multi-core cable systems 17
C.1.1 General 17
C.1.2 Configuration 1 17
C.1.3 Configuration 2 18

Bibliography 20

Figures

Figure A.1 — Types and dimensions 15
Figure C.1 — Multi-core cable system, configuration 1 17
Figure C.2 — Multi-core cable system, configuration 2 A 18
Figure C.3 — Multi-core cable system, configuration 2 B 19

Tables

Table 1 — Power classes **8**

Table 2 — Number of circuits **8**

Table 3 — Types and contact assignment for the different connectors **9**

Table 4 — Minimum cross-sections **13**

Table B.1 — Permitted threshold lengths in the TN system; 400/230 V 50 Hz (excerpt from DIN VDE 0100 Supplement 5:2017-10, Table A21) **16**

Table B.2 — Permitted threshold lengths in the TN system; 400/230 V 50 Hz (excerpt from DIN VDE 0100 Supplement 5:2017-10, Table A22) **16**