

STN	Súbory vysokofrekvenčných a koaxiálnych káblov Časť 3-4: Podrobná špecifikácia súborov poloohybných koaxiálnych káblov, frekvenčný rozsah do 6 GHz, poloohybný koaxiálny kábel typu 50-141	STN EN IEC 60966-3-4 34 7720
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Radio frequency and coaxial cable assemblies - Part 3-4: Detail specification for semi-flexible cable assemblies (Jumper) - Frequency range up to 6 GHz, Type 50-141 semi-flexible coaxial cable

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 06/23

Obsahuje: EN IEC 60966-3-4:2023, IEC 60966-3-4:2023

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NORME EUROPÉENNE
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EN IEC 60966-3-4

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English Version

**Radio frequency and coaxial cable assemblies - Part 3-4: Detail
specification for semi-flexible cable assemblies (jumper) -
Frequency range up to 6 GHz, Type 50-141 semi-flexible coaxial
cable
(IEC 60966-3-4:2023)**

Cordons coaxiaux et cordons pour fréquences
radioélectriques - Partie 3-4: Spécification particulière
relative aux cordons semi-flexibles (câble de liaison), plage
de fréquences jusqu'à 6 GHz, câble coaxial semi-flexible de
type 50-141
(IEC 60966-3-4:2023)

Konfektionierte Koaxial- und Hochfrequenzkabel - Teil 3-4:
Bauartspezifikation für halbflexible konfektionierte Kabel
(Rangierkabel), Frequenzbereich bis 6 GHz, halbflexibles
Koaxialkabel Typ 50-141
(IEC 60966-3-4:2023)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 60966-3-4:2023 (E)**European foreword**

The text of document 46/928/FDIS, future edition 1 of IEC 60966-3-4, prepared by IEC/TC 46 "Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60966-3-4:2023.

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- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2024-01-11
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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-11	-	Environmental testing - Part 2-11: Tests - Test Ka: Salt mist	EN IEC 60068-2-11	-
IEC 60966-1	2019	Radio frequency and coaxial cable assemblies - Part 1: Generic specification - General requirements and test methods	EN IEC 60966-1	2019
IEC 60966-3	-	Radio frequency and coaxial cable assemblies - Part 3: Sectional specification for semi-flexible coaxial cable assemblies	EN 60966-3	-
IEC 60966-3-1	-	Radio frequency and coaxial cable assemblies - Part 3-1: Blank detail specification for semi-flexible coaxial cable assemblies	EN 60966-3-1	-
IEC 61169-4	-	Radio-frequency connectors - Part 4: RF coaxial connectors with inner diameter of outer conductor 16 mm (0,63 in) with screw lock - Characteristic impedance 50 Ω (type 7-16)	EN IEC 61169-4	-
IEC 61169-11	-	Radio-frequency connectors - Part 11: Sectional specification for RF coaxial connectors with inner diameter of outer conductor 9,5 mm with threaded coupling - characteristic impedance 50 Ω (Type 4,1-9,5)	EN 61169-11	-
IEC 61169-53	-	Radio-frequency connectors - Part 53: Sectional specification for RF coaxial connectors with inner diameter of outer conductor 16 mm with screw lock - Characteristic impedance 50 Ω (Type S7-16)	EN 61169-53	-
IEC 61169-54	-	Radio frequency connectors - Part 54: Sectional specification for coaxial connectors with 10 mm inner diameter of outer conductor, nominal characteristic impedance 50 Ω , Series 4,3-10	EN IEC 61169-54	-

EN IEC 60966-3-4:2023 (E)

IEC 61196-8-4	-	Coaxial communication cables - Part 8-4: - Detail specification for 50-141 type semi- flexible cables with solid polytetrafluoroethylene (PTFE) insulation	-
IEC 61726	-	Cable assemblies, cables, connectors and EN IEC 61726 passive microwave components - Screening attenuation measurement by the reverberation chamber method	-



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NORME INTERNATIONALE



**Radio frequency and coaxial cable assemblies –
Part 3-4: Detail specification for semi-flexible cable assemblies (Jumper) –
Frequency range up to 6 GHz, Type 50-141 semi-flexible coaxial cable**

**Cordons coaxiaux et cordons pour fréquences radioélectriques –
Partie 3-4: Spécification particulière relative aux cordons semi-flexibles (câble
de liaison), plage de fréquences jusqu'à 6 GHz, câble coaxial semi flexible
de type 50-141**



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IEC Secretariat
3, rue de Varembe
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
info@iec.ch
www.iec.ch

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de type 50-141**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO FREQUENCY AND COAXIAL CABLE ASSEMBLIES –

**Part 3-4: Detail specification for semi-flexible cable assemblies (Jumper) –
Frequency range up to 6 GHz, Type 50-141 semi-flexible coaxial cable**

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IEC 60966-3-4 has been prepared by IEC technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories. It is an International Standard.

The text of this International Standard is based on the following documents:

Draft	Report on voting
46/928/FDIS	46/932/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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RADIO FREQUENCY AND COAXIAL CABLE ASSEMBLIES –

Part 3-4: Detail specification for semi-flexible cable assemblies (Jumper) – Frequency range up to 6 GHz, Type 50-141 semi-flexible coaxial cable

1 Scope

This part of IEC 60966 is a detail specification that relates to semi-flexible cable assemblies composed of type 50-141 semi-flexible coaxial cables with polytetrafluoroethylene (PTFE) dielectric (IEC 61196-8-4) and connectors such as type 7-16 (IEC 61169-4), type 4,1-9,5 (IEC 61169-11), type S7-16 (IEC 61169-53), type 4,3-10 (IEC 61169-54). It gives subfamily detail requirements and severities which are to be applied.

These cable assemblies are mainly used in the field of mobile communication base station antenna system, terrestrial microwave communication and radar systems. The operating frequency is up to 6 000 MHz.

The qualification will be conducted in accordance with IEC 60966-3. Once one variant obtains the qualification approval, the other variant with the same cable and connection type can obtain the qualification approval by conducting tests whose results might depend on the variants.

Under capability approval, the qualification will be conducted on the relating CQCs (capability qualifying components) as defined in IEC 60966-3 and described in the CM (capability manual). Unless otherwise specified in the CM, only lot-by-lot tests from groups Ba and Eb will be conducted on delivered products, all other tests will be performed on CQCs as defined in IEC 60966-3 and described in the CM.

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IEC 60966-3, *Radio frequency and coaxial cable assemblies – Part 3: Sectional specification for semi-flexible coaxial cable assemblies*

IEC 60966-3-1, *Radio frequency and coaxial cable assemblies – Part 3-1: Blank detail specification for semi-flexible coaxial cable assemblies*

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IEC 61169-11, *Radio-frequency connectors – Part 11: Sectional specification for RF coaxial connectors with inner diameter of outer conductor 9,5 mm with threaded coupling – characteristic impedance 50 Ω (Type 4,1-9,5)*

IEC 61169-53, *Radio-frequency connectors – Part 53: Sectional specification for RF coaxial connectors with inner diameter of outer conductor 16 mm with screw lock – Characteristic impedance 50 Ω (Type S7-16)*

IEC 61169-54, *Radio frequency connectors – Part 54: Sectional specification for coaxial connectors with 10 mm inner diameter of outer conductor, nominal characteristic impedance 50 Ω , Series 4,3-10*

IEC 61196-8-4, *Coaxial communication cables – Part 8-4: Detail specification for 50-141 type semi-flexible cables with solid polytetrafluoroethylene (PTFE) insulation*

IEC 61726, *Cable assemblies, cables, connectors and passive microwave components – Screening attenuation measurement by the reverberation chamber method*

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