

**AMENDMENT NO. 1 AUGUST 2023**

**TO**

**IS 1885 (Part 87) : 2022 Electrotechnical Vocabulary — Part 87: Radio communications : Transmitters, Receivers, Networks and Operation**

This Amendment No. 1 is identical with Amendment No. 5 of 'IEC 60050-713 : 1998 International Electrotechnical Vocabulary (IEV) — Part 713: Radio communications: transmitters, receivers, networks and operation' published in 2021 issued by the International Electrotechnical Commission (IEC).

**Price Group 2**

**Part 713 / Partie 713**

Replace IEV 713-02-05, IEV 713-02-09, IEV 713-02-19, IEV 713-02-21, IEV 713-07-03, IEV 713-09-21, IEV 713-09-25, IEV 713-09-26, IEV 713-09-27, IEV 713-10-58, IEV 713-10-59 and IEV 713-11-29 by the following:

**713-02-05**

**Earth station**

radio station located either on the Earth's surface, or within the major portion of the Earth's atmosphere, and intended for [communication](#) with one or more [space stations](#), or with one or more other stations of the same kind by means of one or more [reflecting satellites](#) or other objects in space

Note 1 to entry: Where the term "Earth station" is used without qualification, it is presumed to refer to an Earth station at a fixed location that is not used, primarily, for communication with [mobile Earth stations](#).

Note 2 to entry: In French, the terms "[station terrienne](#)", "[station terrestre](#)" and "[station de Terre](#)" derive from the same root, but refer to different concepts.

Table – Radiocommunication with mobiles

Type of mobile	Terms for radio stations used in space radiocommunication		Terms for radio stations used in terrestrial radiocommunication	
	mobile	non-mobile	mobile	non-mobile
all types	<a href="#">mobile earth station</a>	<a href="#">land earth station</a>	<a href="#">mobile station</a>	<a href="#">land station</a>
ships	<a href="#">ship earth station</a>	<a href="#">coast earth station</a>	<a href="#">ship station</a>	<a href="#">coast station</a>
aircraft	<a href="#">aircraft earth station</a>	<a href="#">aeronautical earth station</a>	<a href="#">aircraft station</a>	<a href="#">aeronautical station</a>
on land	<a href="#">land mobile earth station</a>	<a href="#">base earth station</a>	<a href="#">land mobile station</a>	<a href="#">base station</a>

**713-02-09**

$A_l$

$L_l$

**total loss**, <of a radio link>

See [IEV 705-08-01](#)

**713-02-19**

**coverage area**, <of a space station>

area on the Earth's surface, associated with a [space station](#), within which, under specified technical conditions, it is feasible for [radiocommunication](#) of a specified nature to be established with one or more [Earth stations](#) that are transmitting, receiving or both transmitting and receiving

Note 1 to entry: Several coverage areas can be associated with the same space station, for example a satellite with several [antenna beams](#).

Note 2 to entry: In the absence of interference, the coverage area will be bounded by a contour of predetermined [power flux density](#).

Note 3 to entry: The concept of "coverage area" applies in a simple way only to onboard space stations on geostationary satellites.

**713-02-21**

**connection by satellite**

[radio link](#) between a [transmitting station](#) and a [receiving station](#) through one or more satellites and, in some cases, one or more [Earth stations](#)

Note 1 to entry: The ITU Radio Regulations restricts the meaning of the French term "liaison par satellite" to a [satellite link](#).

Note 2 to entry: The end stations of a connection by satellite can be two Earth stations, two [space stations](#) or one Earth station and one space station.

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Type of mobile	Terms for radio stations used in space radiocommunication		Terms for radio stations used in terrestrial radiocommunication	
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aircraft	<a href="#">aircraft earth station</a>	<a href="#">aeronautical earth station</a>	<a href="#">aircraft station</a>	<a href="#">aeronautical station</a>
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**713-07-03**

**frequency-hopping spread-spectrum modulation**

form of [spread-spectrum modulation](#) in which the [carrier](#) frequency is automatically changed at short intervals, selection being made in a pseudo-random way from a set of frequencies covering a [frequency band](#) much wider than the [bandwidth](#) required for the information to be transmitted

Note 1 to entry: The rate at which the frequency is changed can be faster or slower than the [binary digit rate](#) of the information signal.

**713-09-21**

**absolute gain**, <of an antenna>

**isotropic gain**, <of an antenna>

See [IEV 712-02-43](#)

**713-09-25**

**equivalent isotropically radiated power**, <in a given direction>

**EIRP**, <in a given direction>

See [IEV 712-02-51](#)

**713-09-26**

**effective radiated power**

**ERP**

See [IEV 712-02-52](#)

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**713-09-27**

**effective monopole radiated power**, <in a given direction>  
**EMRP**, <in a given direction>

See [IEV 712-02-53](#)

**713-10-58**

**image rejection ratio**

See [IEV 161-06-22](#)

**713-10-59**

**intermediate frequency rejection ratio**

See [IEV 161-06-21](#)

**713-11-29**

**disturbance suppression**, <radio frequency>

action that reduces or eliminates [radio-frequency disturbances](#) at their source