

INTERNATIONAL
STANDARD

ISO
2574

Second edition
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**Aircraft — Electrical cables —
Identification marking**

ITeH Standards

Aéronefs — Câbles électriques — Marquage d'identification

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Reference number
ISO 2574:1994(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 2574 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Sub-Committee SC 1, *Aerospace electrical requirements*.

This second edition cancels and replaces the first edition (ISO 2574:1974), of which it constitutes a technical revision.

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Aircraft — Electrical cables — Identification marking

1 Scope

This International Standard specifies the way in which single-core, multi-core and coaxial cables used in the wiring of aircraft are to be marked as to type, size, origin, date, etc. in order to facilitate servicing, the investigation of faults and replacement, when necessary, with an equivalent cable. It also specifies the approved methods for the marking of cores. This International Standard supplements those relating to marking that already exist. It allows for the codification of manufacturer's identities by individual countries.

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2 Normative reference Document Preview

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3166:1993, *Codes for the representation of names of countries*.

3 Identification of cable

3.1 Because of variation in requirements for cable coverings, the minimum size of cable that can be marked will depend upon the overall diameter and should be stated in the national individual cable specification.

The marking shall consist of a legend printed in green or in a contrasting colour to that of the covering, using characters of the size required by the national standard, repeated at intervals of 300 mm \pm 50 mm, and containing the following information:

- name of cable or number of specification/standard, type and size (as specified in table 1);
- country of origin in accordance with the alpha-2 code specified in ISO 3166;
- manufacturer (one-letter code) in accordance with a code prepared by the standards organization in the country of origin;
- year of manufacture (one- or two-letter code) as specified in table 2.

Table 1 — Cable size code

Nominal cross-sectional area mm ²	Size code	
	EN	AWG
0,15	001	26
0,25	002	24
0,4	004	22
0,6	006	20
1	010	18
1,2	012	16
2	020	14
3	030	12
5	050	10
5	051	10
9	090	8
14	140	6
22	220	4
34	340	2
42	420	1
53	530	0
68	680	00
85	850	000
107	107	0000

Table 2 — Year of manufacture code

Year of manufacture	Code	Year of manufacture	Code	Year of manufacture	Code
1971	J	1986	AA	2001	01
1972	K	1987	AB	2002	02
1973	L	1988	AC	2003	03
1974	M	1989	AD	2004	04
1975	N	1990	AE	2005	05
1976	P	1991	91	2006	06
1977	R	1992	92	2007	07
1978	S	1993	93	2008	08
1979	T	1994	94	2009	09
1980	U	1995	95	2010	10
1981	V	1996	96	2011	11
1982	W	1997	97	2012	12
1983	X	1998	98	2013	13
1984	Y	1999	99	2014	14
1985	Z	2000	00	2015	15

3.2 Dashes shall be used to separate the name of the cable or the number of the specification/standard, the type and the size.

This information shall be clearly separated from the codes for the country of origin and the manufacturer by a space equivalent to eight characters.

The codes for the country of origin and the manufacturer shall also be separated with a dash.

EXAMPLE

EN 2266 - 003 - 006 _ _ _ _ _ DE - R 91

4 Marking of cores

Marking of cores shall be carried out by the cable manufacturer according to cable type as specified in the following subclauses.

4.1 Single-core cables (without screen or without screen and jacket)

The outer surface shall be marked in a permanent and legible manner.

4.2 Single-core cables (with screen and jacket)

The outer jacket shall be marked in a permanent and legible manner.

4.3 Multicore cables (without jacket)

The marking shall be carried out on:

- a) the white core if method 1A is used (see tables 3 and 6);
- b) the blue or red core if method 1B is used (see tables 4 and 6);
- c) the red core if method 1C is used (see tables 5 and 6);
- d) the white core if method 2 is used (see table 7); or
- e) any core if method 3 is used (see 5.3).

4.4 Multicore cables (with jacket or with screen and jacket)

The marking shall be carried out optionally on the jacket or on:

- a) the white core if method 1A is used (see tables 3 and 6);
- b) the blue or red core if method 1B is used (see tables 4 and 6);
- c) the red core if method 1C is used (see tables 5 and 6);
- d) the white core if method 2 is used (see table 7); or
- e) any core if method 3 is used (see 5.3).

4.5 Coaxial cables

The outer jacket shall be marked in a legible manner in green or white and shall include:

- a) the standard number of the coaxial cable;
- b) the country, manufacturer and year (see 3.1).

Table 3 — Method 1A

Number of cores in cable											
1	White	—	—	—	—	—	—	—	—	—	—
2	White	Blue	—	—	—	—	—	—	—	—	—
3	White	Blue	Orange	—	—	—	—	—	—	—	—
4	White	Blue	Orange	Green	—	—	—	—	—	—	—
5	White	Blue	Orange	Green	Red	—	—	—	—	—	—
6	White	Blue	Orange	Green	Red	Black	—	—	—	—	—
7	White	Blue	Orange	Green	Red	Black	Yellow	—	—	—	—
8	White	Blue	Orange	Green	Red	Black	Yellow	Violet	—	—	—
9	White	Blue	Orange	Green	Red	Black	Yellow	Violet	Grey	—	—
10	White	Blue	Orange	Green	Red	Black	Yellow	Violet	Grey	Grey	Brown

NOTE — For cables having more than 10 cores, see table 6.

Table 4 — Method 1B

Number of cores in cable											
1	White	—	—	—	—	—	—	—	—	—	—
2	Red	Blue	—	—	—	—	—	—	—	—	—
3	Red	Blue	Yellow	—	—	—	—	—	—	—	—
4	Red	Blue	Yellow	Green	—	—	—	—	—	—	—
5	Red	Blue	Yellow	Green	White	—	—	—	—	—	—
6	Red	Blue	Yellow	Green	White	Black	—	—	—	—	—
7	Red	Blue	Yellow	Green	White	Black	Brown	—	—	—	—
8	Red	Blue	Yellow	Green	White	Black	Brown	Orange	—	—	—
9	Red	Blue	Yellow	Green	White	Black	Brown	Orange	Purple	—	—
10	Red	Blue	Yellow	Green	White	Black	Brown	Orange	Purple	Purple	Grey

NOTE — For cables having more than 10 cores, see table 6.

Table 5 — Method 1C

Number of cores in cable											
1	White	—	—	—	—	—	—	—	—	—	—
2	Red	Blue	—	—	—	—	—	—	—	—	—
3	Red	Blue	Yellow	—	—	—	—	—	—	—	—
4	Red	Blue	Yellow	Green	—	—	—	—	—	—	—
5	Red	Blue	Yellow	Green	Black	—	—	—	—	—	—
6	Red	Blue	Yellow	Green	Black	Violet	—	—	—	—	—
7	Red	Blue	Yellow	Green	Black	Violet	Orange	—	—	—	—
8	Red	Blue	Yellow	Green	Black	Violet	Orange	Brown	—	—	—
9	Red	Blue	Yellow	Green	Black	Violet	Orange	Brown	Pink	—	—
10	Red	Blue	Yellow	Green	Black	Violet	Orange	Brown	Pink	Pink	Grey

NOTE — For cables having more than 10 cores, see table 6.