EUROFIGHTER GmbH

WIRE AND CABLE IDENTIFICATION AND PACKAGING REQUIREMENTS

1. SCOPE

The purpose of this standard is to define the Manufacturers Identification requirements for wires and cables procured to EUROFIGHTER STANDARD. This standard covers also the general requirements for preservation and packaging of wires and cables.

2. APPLICABLE DOCUMENTS

2.1. EUROFIGHTER DOCUMENTS

75.6410 Wire type selection.
PRD-J-0-E-0007-PD620 Design and management procedures.

2.2. OTHER DOCUMENTS

3. REQUIREMENTS

The cables supplied to the Purchaser shall be packaged such that they are delivered in an undamaged and fully serviceable condition according to ED7 and shall be marked according to the requirements of this Standard.

3.1. IDENTIFICATION AND MARKING

Unless otherwise specified, the type code, size code, identification reference of origin country, manufacturer identification and the year of manufacture shall be indelibly marked on the cables, according to the ISO 2574 requirements and as follows.

Wire and cable shall be identified by a series of letters and figures as shown below. The identification shall be printed permanently and legibly at 250 mm to 300 mm intervals along the length of the external sheath.

Unless otherwise specified, the colour of the printing shall be green, for coaxial, triaxial and data bus cables the colour of printing may be black according to the detail required in the product standard.

The horizontal axis of the characters shall be parallel to the axis of the wire on size codes 006 to 530, and at right angles to the axis of the wire on size codes 002 and 004.

The height of the characters shall be approximately two thirds of the maximum overall diameter of the wire.

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EXAMPLE JN1007 xx nnn xx xx Basic Part Number Type Code Size Code (not applicable for coaxial) Country of origin Manufacturer Identification Year of Manufacture

3.1.1. Basic Part Number

The basic part number, e.g., JN1007 shall be as defined in the relevant EUROFIGHTER STANDARD and listed in J56.110.

3.1.2. Type code

The type code shall be identified by means of two letters as required in EUROFIGHTER STANDARD J56.110.

3.1.3. Size code

Size code shall be identified by means of three significant digits referring to the wire size in mm² as follows:

TABLE I

SIZE CODE	Cross sectional area nom [mm²]	AWG (ref.)	SIZE CODE	Cross sectional area nom [mm²]	AWG (ref.)
002	0,25	24	050	5	10
004	0,4	22	090	9	8
006	0,6	20	140	14	6
010	1	18	220	22	4
012	1,2	16	340	34	2
020	2	14	420	42	0
030	3	12	530	53	00

NOTE:

SIZE CODE identification is not applicable to coaxial and triaxial cables.

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3.1.4.

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Country of origin Country of origin shall be identified by means of two letters as follows:							
	TAB	LE II					
	Identification letter	Country of origin					
	GB	United Kingdom	R				
	DE	Germany					
	FR	France					
	IT	Italy					
	SP	Spain					
	US	United States					

3.1.5. Manufacturer identification

Manufacturer shall be identified by means of one letter as follows:

TABLE III

Identification letter	Manufacturer	Identification letter	Manufacturer
A	Draka France (ex Fileca)	R	Draka Germany
В	BICC		(ex Reinshagen)
С	Alcatel (ex CommScope)	S	Raychem
F	Alcatel (ex Filotex)	TŤ	CDT-Raydex
G	Gore	U	(ex Fothergill & Harvey)
P	Pirelli	X	Axon

3.1.6. Year of manufacture

Year of manufacture shall be identified by means of two digits as follows:

TABLE IV

Code	Date	Code	Date	Code	Date	Code	Date
AC	1988	94	1994	00	2000	06	2006
AE	1989	95	1995	01	2001	07	2007
Ø AF	1990	96	1996	02	2002	08	2008
91	1991	97	1997	03	2003	09	2009
92	1992	98	1998	04	2004		
93	1993	99	1999	05	2005	90	2090

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3.2. Preservation, Packaging and Labelling

3.2.1. Preservation and packaging

Unless otherwise specified preservation shall be level A of MIL-C-12000H.

The cables may be supplied on reels, spools or coils.

They shall be wound regularly and uniformly.

The ends of the packaged length shall be sealed to prevent ingress of moisture and easily accessible for the application of certain prescribed tests.

The minimum bend radius shall be according to EUROFIGHTER STANDARD J56.110.

Only wire or cable of the same classification shall be contained on any one coil, spool or reel type package.

3.2.2. Labelling

Unless otherwise agreed between the Purchaser and the manufacturer each reel shall bear a label showing the following information:

- a) Name of manufacturer.
- b) Description of wire or cable.
- c) Conductor size and stranding.
- d) Specification number.
- e) Date (month and year) and place of manufacture.
- f) Polyimide manufacturer name (where applicable).
- g) Contract or release number.
- h) Batch number.
- i) Inspection reference.
- j) Total length of wire or cable on reel (in meters).
- k) When the reel contains more than one piece, each piece shall be marked with identification number (1,2,3,etc) starting from the bottom of the reel and the length of each piece shall be stated.
- 1) Nato stock number.

Note: The label must be securely attached to the reel flange.

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3.3. Delivery Lengths

Unless otherwise agreed between the Purchaser and the manufacturer, the delivery length of the finished wire or cable shall be according to the following requirements.

TABLE V

Wire size code	Delivery length (minimum metres)	Admitted shorter length (minimum metres)		
002 to 010	150	30		
012 to 530	100	20		
Finished cables	100	20		

Unless otherwise specified in the contract or purchase order for <u>finished cables</u> (i.e., multicore unscreened, single and multicore screened and jacketed, and coaxial) the delivery lengths shall be a minimum of 100 m; the admitted shorter length shall be a minimum of 20 m for all sizes.

Only a maximum of 15% of the delivery quantity in one reel can be supplied in the shorter length as quoted above.