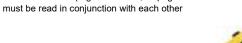
PRODUCT DATASHEET

Fox-Flo® Low Smoke Zero Halogen Tie-On Cable Labels



One Software One Printer One Ribbon







Our Fox-Flo® zero halogen labels are flame retardant, halogen free and intended for use in internal and external identification purposes.

The labels are both strong and flexible and can be attached using either standard nylon or stainless-steel cable ties.

Authorised for use for London Underground Limited projects. Suitable for any applications where LSZH is specified. Tested to the Fire Safety Performance of Material requirements of LUL 1-085.

TECHNICAL DATA

Printing Method	Silver Fox DTP-1 Thermal Printer		
Thermal Ribbon	Silver Fox TSR3		
Material	Silver Fox Fox-Flo [®] Material		
Thickness	1mm		
RoHS (EU 2002/95/EC)	RoHS Compliant		

PRODUCT TESTING

Test	Tested					
BS EN ISO 4589-2:1999	Material	<u> </u>	√	√		
Oxygen Index	Material		•	<u> </u>		
BS 6853:1999 Annex D.8.3	Material	./	./	./	✓	
Smoke Emission	Material		•	•		
BS 6853:1999 Annex B.1	Material	1	1	1	1	
Toxic Fume		<u> </u>	V	V		
EN 45545-2 R22	Material	\checkmark				
Tested to UL 94 Section 8 'Vertical Burning Test'	Material	./	./	./		
Rating V0	Material	V	V	•		
IMO FTPC Part 2	Material	1	√			
Smoke & Toxicity	Material		V			
IMO FTPC Part 5	Material	1	1			
Surface Spread of Flames	Material		V			
MIL-STD-810F Method 502.4			,	,	,	
Low Temperature 72 hours @ -40°C	Printed Label	\checkmark	\checkmark	\checkmark	\checkmark	
Followed by manipulation test*						
MIL-STD-202G Method 108A Printed Label		1	√	1	1	
High Temperature 2000 hours @ 70°C to 100°C**	T TITICO LODO	V	•			
H ₂ S Sour Gas Exposure (2% H ₂ S)	Printed Label	✓	✓	✓	✓	
Hydrogen Sulphide	T TITICU LADCI	V	•			
ISO 4982 Part 3 Method A Cycle 1	Printed Label	✓	✓	✓	✓	
UV Weathering 8000 hours	T TITICU LADCI	V	•			
IEC60068-2-52 Test Kb Salt Mist (Cyclic)	Printed Label	✓	✓	✓	✓	
Salt Mist Spray	T TITLEG LADEI		•			
Chemical / Solvent Resistance	Printed Label	✓				

FEATURES & BENEFITS

- Easy to use and apply
- Pre-perforated for rapid removal from roll
- Apply to any cable from OD Ø 10mm unlimited
- Choice of four colours and three sizes

APPROVALS

Authorised for use by London Underground Registration No. 1707



All Enquiries:

tel: +44 (0)1744 762 929 email: sales@etechcomponents.com web: www.etechcomponents.com

^{*} Manipulation of the labels were performed at -40°C at completion of the low temperature test. This took the form of attempting to bend the labels in half using bare hand force only.

^{**} Samples were subjected to 500 hours @ 70°C, followed by 500 hours @ 85°C followed by 1000 hours @ 100°C

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PRODUCT TESTING

Chemical/Solvent Resistance:

Samples of Silver Fox Fox-Flo® labels were printed* at medium speed at medium temperature with Silver Fox DTP-1 thermal printer and TSR3/300 thermal transfer ribbons. Samples were then conditioned for 24 hours at room temperature. In-house testing consisted of 5 cycles of 10-minute immersions in the specified chemical/solvent followed by a 30-minute recovery period. After the final immersion, the samples were then rubbed ten times with a cotton swab dipped in the test fluid. Visual observations on the print quality are listed in the table below:

Chemical/Solvent	No Rub	After Rub
Methyl Ethyl Keytone (MEK)	No Effect	Loss of Legibility
Isopropyl Alcohol	No Effect	No Effect
Toluene	Loss of Legibility	Complete Removal
Jet Fuel	No Effect	Complete Removal
Diesel	No Effect	No Effect
Petrol (UK)	Loss of Legibility	Complete Removal
SAE 30 Oil	No Effect	No Effect
De-ionised Water	No Effect	No Effect
3% Alconox® Detergent	No Effect	No Effect
10% Hydrochloric Acid	No Effect	No Effect
10% NaCl Salt Solution	No Effect	No Effect
Mineral Spirits	No Effect	No Effect
Alcohol Mix	No Effect	No Effect
10% Sodium Hydroxide Solution	No Effect	No Effect
DOT 4 Brake Fluid	Loss of Density	Complete Removal
Mineralised Methylated Spirit	No Effect	No Effect
Ethylene Glycol	No Effect	No Effect
WD-40	No Effect	Loss of Density
Turpentine Substitute	No Effect	Loss of Density

Following the above test and using the same procedure, further samples of Silver Fox Fox-Flo® labels were printed* at standard speed at maximum temperature. Visual observations on the print quality are listed in the table below:

*Tested in-house on yellow Fox-Flo labels

Chemical/Solvent	No Rub	After Rub
Methyl Ethyl Keytone (MEK)	No Effect	Loss of Density
Toluene	No Effect	Complete Removal
Jet Fuel	No Effect	No Effect
Petrol (UK)	No Effect	Complete Removal
DOT 4 Brake Fluid	No Effect	Loss of Density

Use with Silver Fox Labacus Innovator Advanced or Professional software.

Print in conjunction with our Fox-in-a-Box Plug'N'Play thermal printer using the same ribbon as all our other thermal labels.

Print using our DTP -1/300 Thermal Printer.





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ADDITIONAL INFORMATION

The material we chose for our Fox-Flo® range of tie-on labels is the best we could find. This in turn means when you choose Fox-Flo the performance you expect is the performance you achieve. For added confidence ALL the colours in the Fox-Flo range have been tested according to the requirements of LUL1-085; BS EN ISO 4589-2:1999 Oxygen Index, BS 6853:1999 Annex D.8.3 Smoke Emission, BS 6853:1999 Annex B.1 Toxic Fume and also tested to UL 94 Section 8 - Vertical Burning Test.

When it comes to UV, we have not just tested to the norm (maybe) 1000 hours, but have stretched our independent testing to the boundaries and beyond. You can be sure Fox-Flo labels are tough, we have tested for 8000 hours accelerated UV and counting. This roughly equates to 144 - 192 months (12 - 16 years) Northern European climate and 80 - 96 months (6.5 - 8 years) Tropical regions.

Apart from being approved for use on London Underground these labels are also tested according to IMO and so are perfect for use in offshore oil and gas and marine environments.

STORAGE INSTRUCTIONS

Storage Instructions	Store between 50° F (10° C) and 77° F (25° C)		
Conditions	Keep in dark conditions		
Humidity Resistance	35% to 65% RH		

ORDER INFORMATION

Product Code	Label Dims (mm)	Labels per Roll	Rolls per Pack	Labels per Pack	Colour Options
LCLZ2-5010T*	50 x 10	750	3	2250	
LCLZ2-7010T*	70 x 10	550	3	1650	
LCLZ1-5015T*	50 x 15	160	5	800	
LCLZ1-5025T*	50 x 25	160	3	480	
LCLZ1-7015T*	70 x 15	150	5	750	
LCLZ1-7025T*	70 x 25	150	3	450	
LCLZ1-9015T*	90 x 15	140	5	700	
LCLZ1-9025T*	90 x 25	140	3	420	
LCLZ1-11015T*	110 x 15	120	5	600	
LCLZ1-11025T*	110 x 25	120	3	360	

^{*}Specify colour when ordering Please note: colours shown are for indicative purposes only and do not represent the actual colour of the label.

Disclaimer: The information contained in this datasheet is based on data we believe to be reliable and is given for information only and without guarantee and does not constitute a warranty. We are not able to anticipate every set of conditions, so always suggest that users should also satisfy themselves as to the suitability of our products for their particular environment and application and not make any assumptions based on information in this data sheet that is included or omitted. This datasheet supersedes any previous information/datasheet released and is subject to change without notice.

SILVER FOX **CATALOGUE**



TIP - TIME INTO PROFIT BROCHURE





All Enquiries:

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