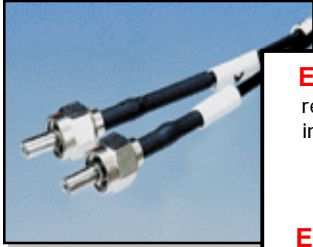


# Thermal Memory Ltd

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**EMS2** is an highly flexible, flame retarded heat-shrink tubing that is intended for applications that requires a military specification. Applications are strain relief for wire terminations, colour coding, insulation and lightweight harness jacketing used for identification for military areas.

Sizes 1.2mm (0.0472") through to 152mm (6 inches)

**EMSU** same characteristics & is used for high density and other space restrictive applications as this material has an extremely ultra thin wall design factor.

### Operating Temperature EMS2

-55 to 135°C  
Shrink temperature 110-120°C

### Operating Temperature EMSU

-55°C to 125°C  
Shrink temperature 90-100°C

### Main features

Standard shrink ratio 2:1  
Highly flexible  
**EMSU** Extremely flexible and flame retardant.  
**EMS2 - EMSU** are both flame retarded.

### Diameter Ranges

1.2 to 152 mm **EMS2**  
1.2 to 25.4mm **EMSU**, 9.5 to 25.4mm to order

Specifications : MIL-DTL 23053/5, DEF-STAN 59 97, VG95343, UL/CSA for EMS2, EMSU UL/CSA only.

Properties for EMS2	Test Method	Typical values
Tensile strength	ISO 37	10 MPa
Ultimate elongation	ISO 37	250 %
Heat shock 4 hrs @ 250°C	ASTM D 2671	No dripping, flowing or cracking.
Longitudinal change	ASTM D 2671	± 5 %
Flammability	ASTM D 2671	Passes
Dielectric strength	IEC 243	20 kV/mm
Low temperature flexibility 4 hrs @ -55°C	ASTM D 2671	No cracking
Corrosion	ASTM D 2671	No corrosion

Size	Inside Diameter		EMS2		EMSU	
	Supplied D (min) mm	fully recovered d (max) mm	# Wall thickness w (nom) mm	fully recovered (inches)	# Wall thickness w (nom) mm	fully recovered (inches)
1.2	1.2	(0.046)	0.6	(0.023)	0.33	(0.013)
1.6	1.6	(0.063)	0.8	(0.031)	0.36	(0.014)
2.4	2.4	(0.093)	1.2	(0.046)	0.51	(0.020)
3.2	3.2	(0.125)	1.6	(0.063)	0.51	(0.020)
4.8	4.8	(0.187)	2.4	(0.093)	0.51	(0.020)
6.4	6.4	(0.250)	3.2	(0.125)	0.64	(0.025)
9.5	9.5	(0.375)	4.8	(0.187)	0.64	(0.025)
12.7	12.7	(0.500)	6.4	(0.250)	0.64	(0.025)
19.0	19.0	(0.750)	9.5	(0.375)	0.76	(0.030)
25.4	25.4	(1.000)	12.7	(0.500)	0.89	(0.035)
32.0	32.0	(1.250)	16.0	(0.630)	0.89	(0.035)
38.0	38.0	(1.500)	19.0	(0.750)	1.02	(0.040)
50.8	50.8	(2.000)	25.4	(1.000)	1.14	(0.045)
76.2	76.2	(3.000)	38.1	(1.500)	1.27	(0.050)
101.6	101.6	(4.000)	50.8	(2.000)	1.40	(0.055)
**127.0	127.0	(5.000)	63.5	(2.500)	1.50	(0.059)
**152.0	152.0	(6.000)	76.0	(3.000)	1.52	(0.060)

# If tubing/sleeving is restricted in any way, this will cause the wall thickness to differ from the actual nominal dimensions stated above.

**EMSU** ■ = 0, Black.

Minimum (1) one box = 1,000 mtrs to 6.4mm (ex-stock), up to 25.4mm to order and MOQ.

**EMS 2** ■ = 0, ■ = 2, ■ = 4, ■ = 6, □ = 9, ■ = X, ■ = 54 Green/Yellow

54 G/Y Earthing Tubing. Other colours to order. \*\* EMS 2 127mm and 152mm Black only.

For ordering : Please specify the types, sizes, colours and quantities (Example EMSU 6.4-0-1,000m)

