

Product Data Sheet

Bulk Sureline - Signal Transmission Tube (Shock Tube)



Description

Sureline signal transmission tubing also known as 'Shock Tube' is manufactured from premium grade material to withstand harsh environments and handling conditions.

Three different sizes produced, 1.85mm single layer, 2.1mm dual layer and the standard 3mm dual layer for use in commercial or military applications.

All sizes are available in a choice of 7 colours to suit specific requirements.

Application

Sureline is primarily used for the manufacture of non electric detonators and for extending circuits. Shock tube is increasingly used in the special effects industry to simulate a blast or create a visual display as seen in the Olympics 2012 opening ceremony.

Accessories: Reuseable connector (3mm only)

Recommended products for reliable initiation

- *Surefire Exploder
- *Shotline Lead in Line
- *Detonating cord with a minimum 3.5gm/m PETN charge
- *Plain, electric, electronic or non electric detonators

Safety & Storage

Explosives should be handled by trained, authorised persons only. Avoid damage to any part of the component and ensure care is taken to protected from extreme impacts, friction & heat sources. "DO NOT" stretch or attempt to remove shocktube from the detonator which may cause premature detonation.

For maximum shelf life it is recommended that Sureline is stored in a cool, dry, well ventilated licensed magazine when not in use, with open ends sealed to prevent the ingress of moisture. Stocks should be frequently rotated in order to use the older products before the new.

Colour Range

Clear / White	Red	Desert Sand
Neon Orange	Olive Green	Neon Green

not actual colours

Sizes

Tube Diameter (mm)	Layers	Reel Lengths (Max)
3.0	Dual	1000M - 3'000M
2.1	Dual	1000M - 4'000M
1.85	Single	1000M - 5'000M

Packing Dimensions

Spool Diameter	400mm
Spool Height	346mm
Centre Hole Diameter	76mm
Outer Carton Dimension	40x40x38cm

packing dimensions may vary due to availability & customer requirements

Shocktube Technical

Characteristics	3.0mm Dual Layer (2.1mm)	1.85mm Single
Outer Diameter	3.00mm \pm 0.075mm (2.1mm)	1.85mm \pm 0.050mm
Inner Diameter	1.00mm \pm 0.075mm (0.75mm)	0.95mm \pm 0.050mm
NEQ	15-20mg / M	14-18mg / M
Velocity	2000m/s \pm 200m/s	2000m/s \pm 200m/s
Recommended Temp Range	-40°C to +40°C	-30°C to +35°C
Hydrostatic Resistance	0.2Mpa over 7 days	0.2Mpa over 7 days
Impact Resistance	97% (5kg at 1.0M height) (N/T)	70% (5kg at 1.0M height)
Tensile Strength	140N @ 18°C (90N)	55N @ 18°C
Ignition Resistance	100°C for 24hours	100°C for 24hours
Abrasion Resistance	BS7765 Passed	BS7765 Passed
Diesel Resistance	>120 hours @ 3.5 bar (48hrs)	>48 hours @ 3.5 bar

Product Classification

Shipping Name	Signal Transmission Tubing
UN #	N/A
Classification	N/A
EC Type Certificate	ENB/D/043/003
Notified Body	0519
Packing Group	PGII

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