

Metallic Systems - Stainless Steel

KSU Small Bore - Uncovered Conduit



Technical Characteristics

Conforms to	BSI Kitemark KM-90009 Low voltage directive
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Approvals and Standards



Degree of mechanical protection	Very high flexibility & fatigue life
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Degree of protection	IP40
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UV protection	Very High
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Finish	Self Coloured
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Application	Indoors - light industrial, buildings marine, corrosive environments
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Normal operating temperature range	Application	Min Temp	Max Temp
	Static	- 65°C	+350°C
	Dynamic	- 45°C	+250 °C

For use with - Fitting range	N/A
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Fire performance	Test Standard	Performance Rating	
	Not Rated	Not Rated	Inherent Low Fire Hazard Resistance to Flame Propagation

Testing data	Click or See page 3
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Type of material	Stainless Steel 304
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Image



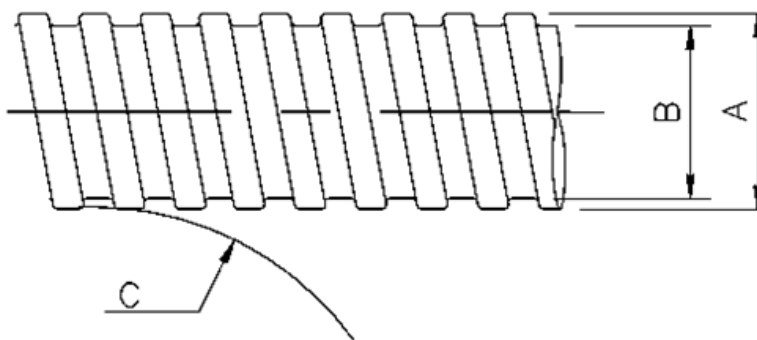
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Technical & Dimensional Data

Conduit size metric (mm)	3	5	8	10
Conduit size US trade (inches)	-	-	-	1/4"
Part code	KSU00320	KSU00520	KSU00810	KSU01*
Coil length (m)	20	20	10	10/30
A - Outside diameter (mm)	5.1	7.0	10.1	9.6
B - Inside diameter (mm)	3.3	5.1	8.0	7.0
C - Static bend radius (mm)	20	17.5	20	20.0
Average weight (Per Coil)	6.8	9.8	11.0	9.5
<i>*For ordering code add coil length to part code - e.g KSU0410</i>				



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BS EN 61386 Classification

	Fitting	Compression	Impact	Min temp	Max temp	bending	electrical	IP solids	IP water	Corrosion	Tensile	Non-flame Propagating	Suspended load
KSU04		4	4	5	6	4	0	4	0	4	4	1	5

Mechanical Properties

Test Type	Methods / Standards	Requirements	Value
Crush Strength @ 23°C	IEC61386-1	<25% crush >90% recovery	>1250N
Impact Strength @ 23 °C	IEC61386-1	No Cracks <20% deformation	>20J
Impact Strength @ -45 °C	IEC61386-1	No Cracks. <20% deformation	>20J
Dynamic Bend radius @ -45 °C	IEC61386-23	5000 cycles minimum	4xOD

Thermal Properties

Test Type	Methods / Standards	Requirements	Value
Minimum Temperature	IEC61386-23	Dynamic 5000 cycles	-45°C
Maximum Temperature	IEC61386-23	Dynamic 5000 cycles	250°C
Minimum Static		Permanent Use	-65°C
Maximum Static		Permanent Use	350°C

Chemical Resistance Chart

Key:

Suitable :

Limited Suitability :

Unsuitable :

Not Tested :

Astm No.1	Diesel oil	Methyl Bromide	Sulphur Dioxide (Gas)
Astm No.2	Diethylamine	MEK	Sulphuric Acid (10%)
Astm No.3	Ethanol	Nitric Acid (10%)	Sulphuric Acid (70%)
Acetic Acid (10%)	Ether	Nitric Acid (70%)	Toluene
Acetone	Ethylamine	Oxalic Acid	Transformer Oil
Aluminium Chloride	Ethylene Glycol	Ozone (Gas)	1,1,1-Trichloroethane
Aniline	Ethyl Ethanoate	Paraffin oil	Trichloroethylene
Benzaldehyde	Freon 32	Petrol	Turpentine
Benzene	Hydrochloric Acid (10%)	Phenol	Vegetable Oil
Carbon tetrachloride	Hydrochloric Acid (36%)	Sea Water	Vinyl Acetate
Chlorine water	Hydrogen Peroxide (35%)	Silver Nitrate	Water
Chloroform	Hydrogen Peroxide (87%)	Skydrol	White Spirit
Citric Acid	Lactic Acid	Sodium Chloride	Zinc Chloride
Copper Sulphate	Lubricating oil	Sodium Hydroxide (10%)	
Cresol	Methanol	Sodium Hydroxide (60%)	

The information above is given as a guide only and is based on published technical data and experience. The chemical resistance of the above products is dependant on factors such as chemical exposure, concentration of the chemical and temperature. The above chemicals are valid for a temperature of 23°C. Use of the above table is at the users own discretion and risk. Those using it must satisfy themselves that their application presents no health and safety risks. The end user should assess compatibility with their application and contact Thomas & Betts for further information.

ADHERENCE TO THE CURRENT WIRING REGULATIONS BS7671 OR NEC WIRING REGULATIONS (FOR USA) IS STRONGLY ADVISED.
MINIMUM BEND RADIUS FOR FLEXING IS DEPENDANT UPON MINIMUM TEMPERATURE, BENDING FREQUENCY AND CHEMICAL ENVIRONMENT.

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The Company's policy is one of continuous improvement and reserves the right to change specifications at any time without prior notice.