

Non-Metallic Systems

Standard Weight PVC Flame Retardant Conduit - Black

Technical Characteristics

Conforms to	BSI Kitemark KM-35161 Low voltage directive
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Approvals and Standards



Degree of mechanical protection	Pliable, Low fatigue life
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Degree of protection	IP40 - KC IP65 - KF
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UV protection	High
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Finish	Black (BL)
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Application	Indoors / Outdoors, General Purpose applications
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Normal operating temperature range	Application	Min Temp	Max Temp
	Static	- 5°C	+60°C
	Dynamic	- 5°C	+60°C

For use with - Fitting range	PVC Fittings
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Fire performance	Test Standard	Performance Rating
	IEC 61386	Pass
		Self Extinguishing

Testing data	Click or See page 3
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Type of material	PVCu - Non Flame Propogating
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Image

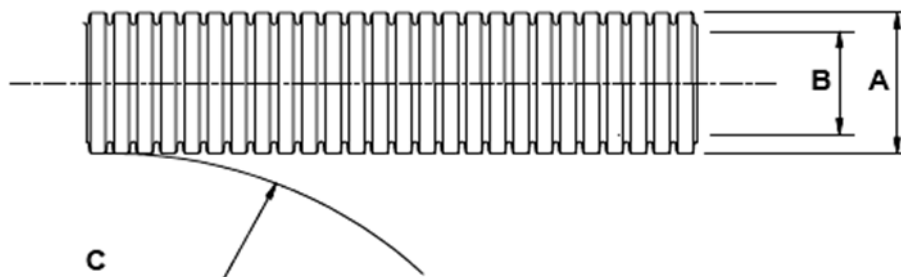


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Technical & Dimensional Data

	Conduit Size			Dimensions				
Part No.	Nominal Conduit Size	NW Conduit Size	Conduit Pitch	(A) Outside Diameter	(B) Inside Diameter	(C) Min. Bend Radius	Reel Length (m)	Average Weight (KG/100m)
T/KFS16/BL	16mm	13	Fine	15.8mm	11.9mm	25mm	50	4.1
T/KFS25/BL	20mm	17	Fine	21.2mm	14.3mm	30mm	50	6.9
T/KFS25/BL	25mm	22	Fine	25.6mm	19.7mm	40mm	50	10.0
To order quote part number, colour & reel length, e.g T/KFS16/BL/50M								



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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
KFS	FC	2	3	2	1	2	2	4	0	-	2	1	0

Mechanical Properties

Test Type	Methods / Standards	Requirements	Value
Crush Strength	IEC61386	<25% crush >90% recovery	>750N
Tensile Strength	IEC61386	Pull off of fitting minimum value	>270N
Impact Strength @ -25°C	IEC61386	No Cracks <20% deformation min value	>2.0J
Impact Strength @ 23°C	IEC61386	-	-
Static Bend radius @ -45 °C	IEC61386	12 O/D	240mm

Thermal Properties

Test Type	Methods / Standards	Requirements	Value
Minimum Temp	IEC61386	Dynamic 5000 cycles	-
Maximum Short Term Temp	IEC61386	Dynamic 3000 hours, 5000 cycles	-
Minimum Static Temp	IEC61386	Permanent Use (30,000) Hours	-5°C
Maximum Static Temp	IEC61386	Permanent Use (30,000) Hours	60°C
Heat Load Test	IEC61386	Weight @ Crush Classification	-

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 TTS 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.