Non-Metallic Systems

KF Standard Weight Conduit

Technical Characteristics

Conforms to	BSI Kitemark KM-35161 Low voltage directive
Approvals and Standards	
Degree of mechanical protection	Pliable, Low fatigue life
Degree of protection	IP40 - Korifit KC IP65 - Korifit KF
UV protection	High
Finish	White (W)
Application	Indoors / Outdoors, General Purpose applications

Normal operating temperature range

Application	Min Temp	Max Temp
Static	**- 5°C**	**+60°C**
Dynamic	**- 5°C**	**+60°C**

For use with - Fitting range: Korifit fittings

Fire performance

Test Standard	Performance Rating
IEC 61386	Pass
	Self Extinguishing

Testing data: Click or See page 3

Type of material: PVCu - Non Flame Propogating

Image

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Technical Support e-mail: cmg.conduitsystems@abb.com - www.adaptaflex.com

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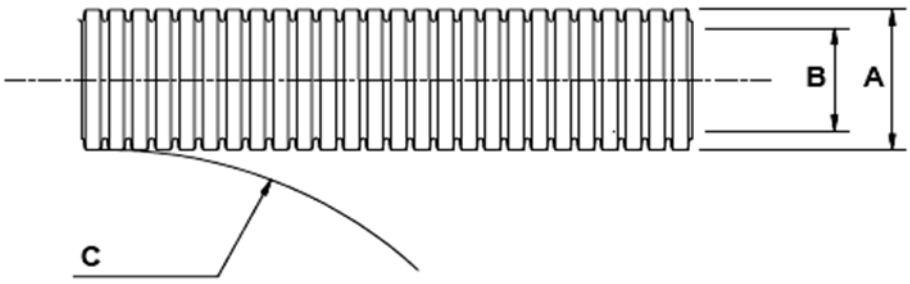
Technical & Dimensional Data

	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)
KFS16	16mm	13	Fine	15.8mm	11.9mm	25mm	50	4.1
KFS20	20mm	17	Fine	21.2mm	14.3mm	30mm	50	6.5
KFS25	25mm	22	Fine	25.6mm	19.7mm	40mm	50	10.0
To order quote part number, colour & reel length, e.g KFS20/W/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 Propogating	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 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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