201408

Adaptafle

(R)

Non-Metallic Systems

Jumbo Type FL/A

Technical Characteristics

Conforms to

Low voltage directive

Approvals and Standards	CE				
Degree of mechanical protection	High Impact	Resistance			
Degree of protection	IP40 - Yes IP65 - when IP66 - N/A IP67 - N/A IP68 - N/A IP69k - N/A	used with Sk	< Seal		
UV protection	Very High				
Fitting Characteristics	Jumbo Type	FL/A - Black	k (BL)		
Application	Straight Pan	el Mounting S	Swivel FI	ange for large diame	eter conduit
Normal operating temperature range	Application Static Dynamic	Min Temp - 50°C - 45°C	Max To +120°0 +120 °		
For use with - Conduit Series		eight Jumbo v			
Fire performance	Test	Standard	Р	erformance Rating	
	BS EN 6	61386-1 & 23		Pass	
	NF	F16-101		13 F2	Self Extinguishing
	ISC) 4589-2		24%	Low Smoke & Haloger
	BS EN	60695-2-11		850°C	Free
		UL94		V2	
Testing data	Click or See	pages <u>3</u> & <u>4</u>			
Type of material	Polyamide (I	Nylon) 66			

Image



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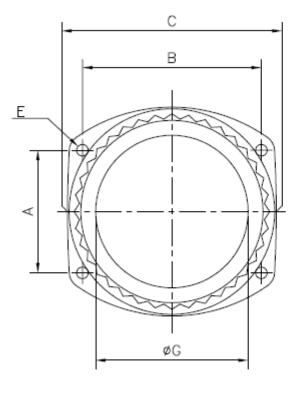
Non-Metallic Systems

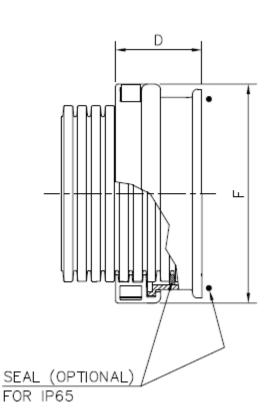
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Dimensional Data

		Nominal Dimensions (mm)							
Part No Metric Threads	Nominal Conduit ø	Α	В	с	D	E	F	G	Weight in grams (Each)
ADC80/FL/A/BL	80.0	60.0	80.0	98.0	52.5	Ø 7.0	106.0	70.0	100
ADC106/FL/A/BL	106.0	74.0	108.0	126.0	52.5	Ø 7.0	132.0	95.0	-

Sealing Kit For IP65	Part Number
ADC80/FL/90	SK80
ADC106/FL/90	SK106





Adaptaflex

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Jumbo Type FL/A

BS EN 61386 Classification

	Fitting	Compression	Impact	Min temp	Max temp	bending	electrical	IP solids	IP water	Corrosion	Tensile	Non-flame Propogating	Suspended Ioad
	AL	N/A	4	2	4	N/A	0	6	6	0	1	1	0

Mechanical Properties

Test Type	Methods / Standards	Requirements	Value
Tensile Strength	IEC61386-1	2 mins at Specified Value (PAFS21 Conduit)	Class 1
Tensile Strength		Ultimate Pullout (PAFS21 Conduit)	240N
Impact Strength @ -45°C	IEC61386-1	No visible damage	Class 1
Impact Strength @ -5°C	IEC61386-1	No visible damage	Class 3
Impact Strength @ 23°C	IEC61386-1	No visible damage	Class 5

Tensile Tests to IEC 61386 gives the minimum classification value only. Actual values will depend on the type and size of the fittings used and will always be greater than the minimum – Impact strength is the minimum classification value at the minimum temperature – actual values will depend on size and temperature. Specific values available on request.

Thermal Properties

Test Type	Methods / Standards	Requirements	Value
Dynamic Applications	IEC 61386-23	5000 Operations at MBR 2hrs	-45°C to +120°C
Static Short Term Temp		Temporary Use (3000hrs)	-50°C to +120°C
Static Long Term Temp		Permanent Use (30,000) Hours	-45°C to +105°C

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Flammability

Test Type	Method / Standard	Requirement	Result	Unit
Glow Wire	BS EN 60695-2-11	Extinguish within 30s	850°C	°C
Flammability	IEC 61386-1-12	1Kw Burner Flame to Self Extinguish	Pass	Pass/Fail
Oxygen Index	ISO 4589-2		24.1	%
Ignition Rating	NF F16-101	I Rating	14	-

Smoke

Test Type	Method / Standard	Requirement	Result	Unit
Fume Rating	NF F16-101	F Rating	F2	-

Toxicity

Test Type	Method / Standard	Requirement	Result	Unit
Halogen Free	NFX 70-100	< 0.5%	Pass	Pass/Fail

Pre Test Conditions

Duration	Standard	Temperature	Relative Humidity
168 (Hours)	IEC61386	23 (⁰ C)	50 (%)

Chemical Resistance Chart

	Astm No.1	Diesel oil	Methyl Bromide	Sulphur Dioxide (Gas)
	Astm No.2	Diethylamine	MEK	Sulphuric Acid (10%)
Key:	Astm No.3	Ethanol	Nitric Acid (10%)	Sulphuric Acid (70%)
	Acetic Acid (10%)	Ether	Nitric Acid (70%)	Toluene
Suitable :	Acetone	Ethylamine	Oxalic Acid	Transformer Oil
	Aluminium Chloride	Ethylene Glycol	Ozone (Gas)	1,1,1-Trichloroethane
Limited Suitability :	O Aniline	Ethyl Ethanoate	Paraffin oil	Trichloroethylene
	Benzaldehyde	Freon 32	Petrol	Turpentine
Unsuitable :	Benzene	Hydrochloric Acid (10%)	Phenol	Vegetable Oil
	Carbon tetrachloride	Hydrochloric Acid (36%)	Sea Water	Vinyl Acetate
Not Tested :	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.

