# Non-Metallic Systems Hi-Spec PB Type A



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Conforms to BSI Kitemark KM-35161 Low voltage directive

Approvals and Standards	$\Diamond$	$\epsilon$
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Degree of mechanical protection High Tensile Strength

Degree of protection IP66 - As standard

IP67 - As standard

V protection	Very High
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Fitting Characteristics Straight fitting - Fixed external male thread

Application For insertion into threaded entries or knockouts using a locknut to secure

Normal operating temperature range Application Min Temp Max Temp

Static - 60°C +260°C

Dynamic - 45°C +250 °C

For use with - Conduit Series Hi-Spec braided - PKTC, PKSS, PRTC & PRSS

Fire performance

For fire performance information, please refer to relevant conduit data sheet as highlighted above.



Testing data	Click or See page 3
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Type of material Nickel Plated Brass body & back nut

Image



CMG House - Station Road - Coleshill - B46 1HT - United Kingdom

Tel: +44(0)1675 468 222 - Fax: +44(0)1675 464 930

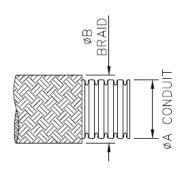
Technical Support e-mail: <a href="mailto:cmg.conduitsystems@abb.com">cmg.conduitsystems@abb.com</a> - <a href="mailto:www.adaptaflex.com">www.adaptaflex.com</a>

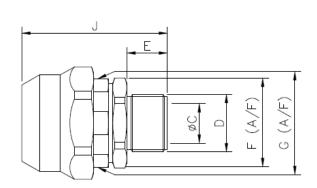
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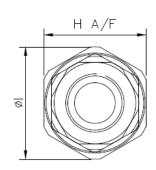


## **Dimensional & Thread Data**

	To Suit					Nominal	Dimensio	ons (mm)	ı		Weight
Part No Metric Threads	Conduit ØA	Braid øB	Thread D	Bore øC	E	F	G	н	ı	J	(kg)
PBF13/M16/A	13.0	14.1	M16x1.5	12.0	12.0	22.0	24.0	28.0	30.5	43.0	0.083
PBF16/M16/A	15.8	17.2	M16x1.5	12.0	12.0	24.0	25.4	30.0	33.0	46.0	0.098
PBF21/M20/A	21.2	23.6	M20x1.5	16.0	14.0	28.0	30.0	35.0	39.0	50.0	0.126
PBC28/M25/A	28.5	30.0	M25x1.5	19.0	15.0	38.0	38.0	45.0	49.0	55.0	0.224
PBC34/M32/A	34.5	36.0	M32x1.5	26.5	18.0	42.0	45.0	50.0	55.0	62.0	0.292
PBC42/M40/A	42.4	45.5	M40x1.5	35.0	15.0	54.0	57.0	75.0	77.0	80.0	0.602







Metric	Standard thread conforming to EN60423 & BS3643							
Thread Size	Ext Thread Outside Diameter	Int Thread Inside Diameter	Pitch					
M12	12mm	10.9mm	1.5mm					
M16	16mm	14.4mm	1.5mm					
M20	20mm	18.4mm	1.5mm					
M25	25mm	23.4mm	1.5mm					
M32	32mm	30.4mm	1.5mm					
M40	40mm	38.4mm	1.5mm					
M50	50mm	48.4mm	1.5mm					
M63	63mm	61.4mm	1.5mm					

NOTE: Dimensions are nominal

Technical Support e-mail: <a href="mailto:com.comduitsystems@abb.com">com.com.com.com.com.com</a> - <a href="mailto:www.adaptaflex.com">www.adaptaflex.com</a> - <a href="www.adaptaflex.com">www.adaptaflex.com</a> - <a href="mailto:www.adaptaflex.com">www.adaptaflex.com</a> - <

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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
	PB	N/A	4	5	6	N/A	1	6	7	0	3	1	0

### **Mechanical Properties**

Test Type	Methods / Standards	Requirements	Value
Tensile Strength	IEC61386-1	2 mins at Specified Value (PKSS Conduit)	Class 3
Tensile Strength		Ultimate Pullout (PKSS Conduit)	850N
Impact Strength @ -45°C	IEC61386-1	No visible damage	Class 4
Impact Strength @ -5°C	IEC61386-1	No visible damage	Class 5
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 I		Requirements	Value
Dynamic Applications	IEC 61386-23	5000 Operations at MBR 2hrs	-45°C to +260°C
Static Short Term Temp		Temporary Use (3000hrs)	-60°C to +260°C
Static Long Term Temp		Permanent Use (30,000) Hours	-45°C to +260°C

#### **Chemical Resistance Chart**

	As	stm No.1	Diesel oil	Methyl Bromide	Sulphur Dioxide (Gas)
Key:	As	stm No.2	Diethylamine	MEK	Sulphuric Acid (10%)
Rey.	As	stm No.3	Ethanol	Nitric Acid (10%)	Sulphuric Acid (70%)
Suitable :	● Ac	cetic Acid (10%)	Ether	Nitric Acid (70%)	Toluene
Suitable .	O Ac	cetone	Ethylamine	Oxalic Acid	Transformer Oil
Limited Cuitability	→ AI	uminium Chloride	Ethylene Glycol	Ozone (Gas)	1,1,1-Trichloroethane
Limited Suitability:	● Ar	niline	Ethyl Ethanoate	Paraffin oil	Trichloroethylene
Library Marking .	_ B∈	enzaldehyde	Freon 32	Petrol	Turpentine
Unsuitable :	Be	enzene	Hydrochloric Acid (10%)	Phenol	Vegetable Oil
	_ Ca	arbon tetrachloride	Hydrochloric Acid (36%)	Sea Water	Vinyl Acetate
Not Tested :	Ch	hlorine water	Hydrogen Peroxide (35%)	Silver Nitrate	Water
	Cr	hloroform	Hydrogen Peroxide (87%)	Skydrol	White Spirit
	Ci	tric Acid	Lactic Acid	Sodium Chloride	Zinc Chloride
	Co	opper Sulphate	Lubricating oil	Sodium Hydroxide (10%)	
	Cr	resol	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.

#### Cable Management Products Ltd.

CMG House - Station Road - Coleshill - B46 1HT - United Kingdom

Tel: +44(0)1675 468 222 - Fax: +44(0)1675 464 930

 $\label{thm:conduitsystems@abb.com} \mbox{-} \underline{\mbox{www.adaptaflex.com}} \mbox{-} \underline{\mbox{www.adaptaflex.c$