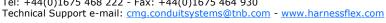




Technical Characteristics					
Conforms to	CE Low volt RoHS Com	age directive			
Approvals and Standards	(€	RoHS			
Degree of mechanical protection	High flexibil	ity - Very Higl	n fatigue life 8	abrasion, impact an	d shock resistance
Degree of protection	IP40 - Hinge IP67 - Seale				
UV protection	Very High				
Finish	Black (BL) o	only			
Application			uit with high p demanding ap	performance characte plications.	eristics, can be used
Normal operating temperature range	Application	Min Temp	Max Temp		
	Static	- 60°C	+260°C		
	Dynamic	- 45°C	+ <u>260</u> ,°C		
For use with - Fitting range	For use with	ı all <u>hinged</u> aı	nd <u>sealed</u> fittir	ngs in the Harnessfle.	x range
Fire performance	Test	Standard	Per	formance Rating	
	IE	C 61386		Pass	
		UL94		V0	Self Extinguishing
	NF	F16-102		I2 F1	& Halogen Free
	ISC	O 4589-2		35.0%	
	IE	C 60695		960°C	
Testing data	Click or See	pages <u>3</u> & <u>4</u>			
Type of material	Polyketone	- Super low fi	re hazard		
Image	100000	0000000	Y		



CMG House - Station Road - Coleshill - B46 1HT - United Kingdom Tel: +44(0)1675 468 222 - Fax: +44(0)1675 464 930



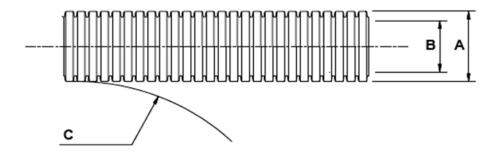






Technical & Dimensional Data

Part No.	Cor	nduit Size		Dimensions			Average Weight
	(NC)	(NW)	(A) Outside Diameter	(B) Inside Diameter	(C) Min. Bend Radius	Reel Length (m)	(Kg/100m)
PKC12	13	10.0	14.1mm	10.0mm	35mm	25	1.0
PKC16	16	13.0	17.2mm	11.7mm	45mm	25	1.5
PKC20	21	17.0	23.6mm	16.6mm	60mm	25	1.9
PKC28	28	23.0	30.0mm	21.7mm	65mm	25	2.8
PKC32	34	29.0	36.0mm	27.7mm	80mm	25	3.9
To order quote part number, colour & reel length, e.g PKC/25m							







Mechanical Properties

Test Type	Methods / Standards	Requirements	Value
Crush Strength	IEC61386-1	<25% crush >90% recovery	>320N
Tensile Strength	IEC61386-1	Fitting Pull off (Hinged Fitting)	125N
Impact Strength @ -45 °C	IEC61386-1	No Cracks. <20% deformation min value	>6J
Dynamic Bend radius @ -5 °C	IEC61386-23	5000 cycles minimum	4xOD

Thermal Properties

Test Type	Methods / Standards	Requirements	Value
Minimum Temperature		Permanent Use (30,000 Hours)	-60°C
Maximum Temperature		Permanent Use (30,000 Hours)	260°C
Maximum Short Term Temperature		Temporary Use	300°C
Heat Load Test @250°C	IEC61386-1	Weight @ crush classification 48hrs	Pass

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:	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
Not rested :	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 dependent 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.

Thomas Betts

A Member of the ABB Group





Flammability

Test Type	Method / Standard	Requirement	Result	Unit
Oxygen Index	ISO 4589	% Oxygen to support combustion >34%	35	%
Glow Wire Rating	IEC 60695	No Ignition to Extinguish within 2s	960	°C
Flammability	UL94	Vertical (V0) or Horizontal (HB)	V0	HB/V0
Flammability	IEC 61386-1	Self Extinguishing <30s	4s	Seconds
Flammability	IEC 61386-1	1kW burner @45°	Pass	Pass/Fail
Flammability	NF F16-101/2	Glow Wire & oxygen index	12	-

Smoke

Test Type	Method / Standard	Requirement	Result	Unit
Fume Rating	NF F16-101	Smoke & Toxicity	F1	-
Smoke Density	BS6853 Annex D	Ao <0.02	0.003	Ao
Smoke Density	ASTM E-662	Ds <100 in both modes	10	Ds Max

Toxicity

Test Type	Method / Standard	Requirement	Result	Unit
Halogen Free		<0.5%	Pass	Pass/Fail
Phosphorous Free		<0.5%	Pass	Pass/Fail
Sulphur Free		<0.5%	Pass	Pass/Fail

Pre Test Conditions

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



 $\label{thm:commutation} \textbf{Technical Support e-mail: } \underline{cmg.conduitsystems@tnb.com} - \underline{www.harnessflex.com}$