

Non-Metallic Systems

RF Type C90

Technical Characteristics

Conforms to	BSI Kitemark KM-35161 Low voltage directive		
Approvals and Standards	 		
Degree of mechanical protection	High Impact Resistance		
Degree of protection	IP67 - As standard		
UV protection	Very High		
Fitting Characteristics	90° Elbow - Fixed external male thread Black (BL) Only		
Application	For insertion into threaded entries or knockouts using a locknut to secure (Locknuts Supplied with METRIC Threads Only)		
Normal operating temperature range	Application	Min Temp	Max Temp
	Static	- 5°C	+60°C
	Dynamic	- 5°C	+60 °C
For use with - Conduit Series	Standard weight Type RE		
Fire performance	Test Standard	Performance Rating	Self Extinguishing Low Smoke & Halogen Free
	ISO 4589-2	24%	
	BS EN 60695-2-11	850°C	
	UL94	V2	
Testing data	Click or See page 3		
Type of material	Polyamide (Nylon) 66 - Body		

Image



Non-Metallic Systems

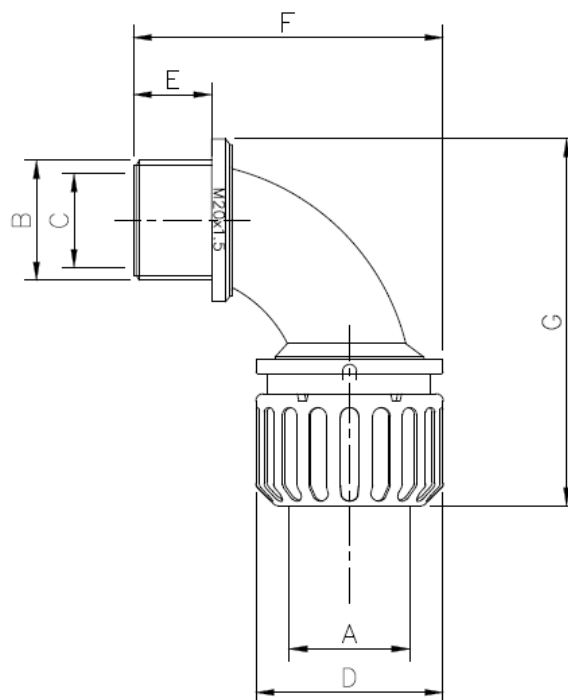
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Dimensional & Thread Data

Part No Black Body Metric Threads	Nominal Conduit A	Thread B	Nominal Dimensions (mm)				
			C	D	E	F	G
TRF16/M16/C90/BL	16	M16x1.5	10.0	27.0	10.5	48.0	50.0
TRF20/M20/C90/BL	20	M20x1.5	14.0	33.0	13.5	56.0	49.5
TRF25/M25/C90/BL	25	M25x1.5	19.0	43.0	17.0	71.5	74.5
TRF32/M32/C90/BL	32	M32x1.5	26.0	47.0	18.5	82.0	90.5
TRF40/M40/C90/BL	40	M40x1.5	34.0	59.0	16.0	93.0	100.5

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



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Thermal Properties

Test Type	Methods / Standards	Requirements	Value
Dynamic Applications		5000 Operations at MBR 2hrs	-5°C to +60°C
Static Short Term Temp		Temporary Use (3000hrs)	-5°C to +60°C
Static Long Term Temp		Permanent Use (30,000) Hours	-5°C to +60°C

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	%

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.

The Company's policy is one of continuous improvement and reserves the right to change specifications at any time without prior notice.