

Non-Metallic Systems

RF Type A

Technical Characteristics

Conforms to	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		Straight fitting - 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 PVCu RF		
Fire performance (Fittings ONLY)	Test Standard	Performance Rating	
	ISO 4589-2	24%	
	BS EN 60695-2-11	850°C	
	UL94	V2	Self Extinguishing Low Smoke & Halogen Free
Testing data	Click or See page 3		
Type of material	Polyamide (Nylon) 66 - Body		

Image



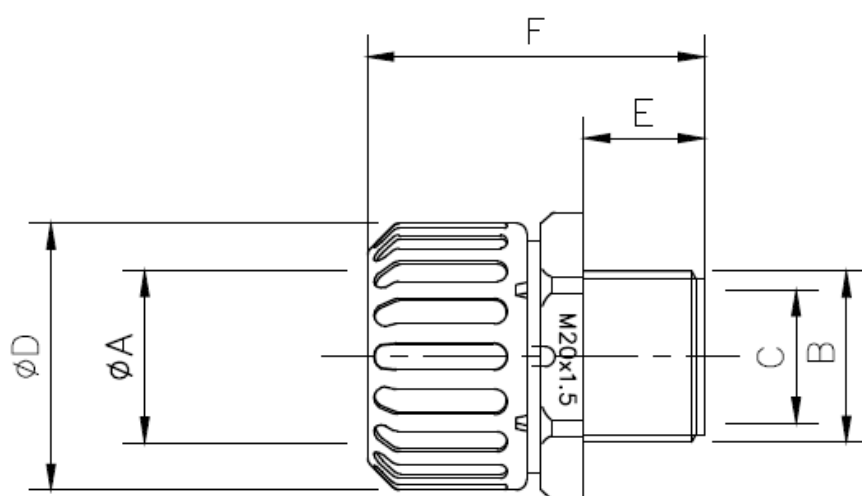
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Dimensional & Thread Data

Part No Black Body Metric Threads	Nominal Conduit A	Thread B	Nominal Dimensions (mm)			
			C	D	E	F
TRF12/M16/A/BL	12	M16x1.5	8.0	22.0	11.5	35.5
TRF16/M16/A/BL	16	M16x1.5	10.0	27.0	11.5	35.5
TRF16/M20/A/BL	16	M20x1.5	10.0	27.0	13.0	37.0
TRF20/M20/A/BL	20	M20x1.5	13.5	33.0	13.0	43.5
TRF25/M25/A/BL	25	M25x1.5	19.0	43.0	15.5	52.5
TRF32/M32/A/BL	32	M32x1.5	25.0	47.0	16.5	53.5

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.

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.