



Connect and Protect

TransTechnical Solutions

Technical Data Sheet

Non-Metallic Systems

Jumbo Flange - Straight Panel Mounting Swivel Flange

Technical Characteristics

Conforms to Low voltage directive

Approvals and Standards



Degree of mechanical protection High Impact Resistance

Degree of protection
IP40 - Yes
IP65 - When used with TSK Seal
IP66 - N/A
IP67 - N/A
IP68 - N/A
IP69K - N/A

UV protection Very High

Fitting Characteristics



Jumbo Type TFL/A - Black (BL)

Application Straight Panel Mounting Swivel Flange for large diameter conduit

Normal operating temperature range	Application	Min Temp	Max Temp
	Static	- 50°C	+120°C
	Dynamic	- 45°C	+120°C

For use with - Conduit Series Standard weight Jumbo variants of PA & PI

Fire performance

Test Standard

Performance Rating

BS EN 61386-1 & 23

Pass

NFF16-101

I3 F2

ISO 4589-2

24%

BS EN 60695-2-11

850°C

UL94

V2

*Self Extinguishing
Low smoke & Halo-
gen Free*

Chemical resistance & Storage data See page 3 & 4

Type of material

Polyamide (Nylon) 66

Image



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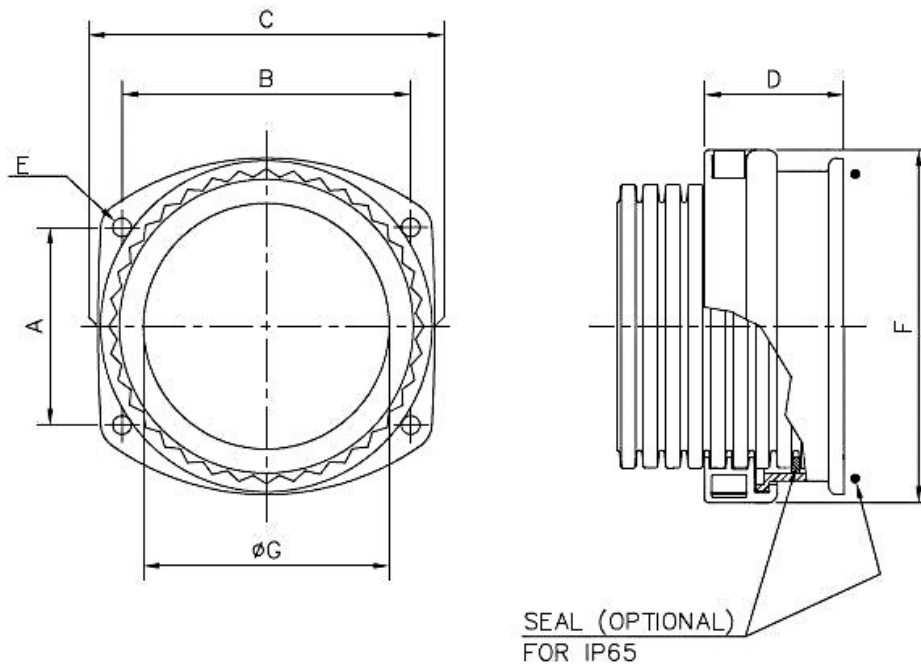
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Dimensional Data

Part No - Metric Threads	Nominal Conduit $\varnothing$	Nominal Dimensions (mm)							Weight in grams (Each)
		A	B	C	D	E	F	G	
TADC80/FL/A/BL	80	60	80	98	52.5	$\varnothing 7.0$	106	70	100
TADC106/FL/A/BL	106	74	108	126	52.5	$\varnothing 7.0$	132	95	-

Sealing Kit For IP65	Part Number
TADC80/FL/90	TSK80
TADC106/FL/90	TSK106



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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 Propagating	Suspended load
TAL	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 (TPAFS21 Conduit)	Class 1
Tensile Strength		Ultimate Pullout (TPAFS21 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

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	I4	-

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 (°C)	50 (%)

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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%)	

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.

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