

TECHNICAL DATASHEET

Type GPA (General Purpose Automotive) Conduit

General purpose conduit for vehicle harnesses

Harnessflex
SPECIALIST CONDUIT SYSTEMS



Polyamide 6/Polypropylene material blend conduit. Ideal for vehicle cable routing and protection and general purpose applications.

Certifications / Standards:



Features and Benefits:

- Medium flexibility and fatigue life
- Medium abrasion, impact and shock resistance
- Medium high and low temperature properties
- Resistant to hydrocarbons, greases, fuels and oils
- Self Extinguishing
- Halogen free
- High UV resistance
- Available in Black RAL9005

Applications:

- Ideal for general vehicle cabling

Temperature range:

- Static applications: -5C to +90C
- Short term: +105C

UV Resistance:

- Black - High

Material:

- Polyamide 6 / Polypropylene Blend

Ingress protection:

- For use with all Harnessflex hinged fittings
- IP40

Conforms to:

- CE Mark to the Low Voltage Directive
- RoHS compliant to 2015/863
- End of Life Vehicle Directive (ELV) EU200/53/EC

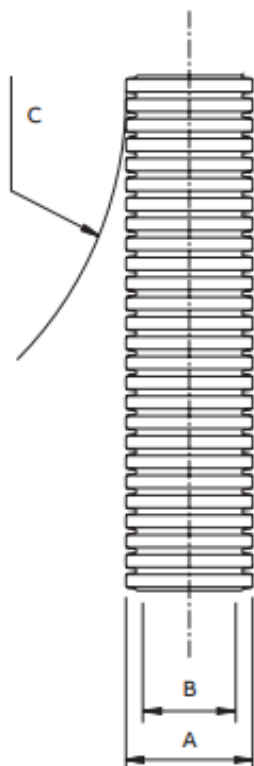
Fire performance:

- IEC 61386-1 - Pass
- UL94 - HB

Chemical resistance:

- High chemical resistance levels
- View our chemical resistance guide [here](#)

Type GPA conduit - Part numbers and dimensions



Part No.	Conduit size		Dimensions (mm)				Reel Length
	NC	NW	Outer diameter (A)	Minimum bore. (B)	Minimum static bend radii (C)		
GPA08	08	7.5	10.0	6.6	20.0		25m/50m/100m
GPA10	10	8.5	11.6	8.2	25.0		25m/50m/100m
GPA12	12	10	13.1	10.0	25.0		25m/50m/100m
GPA16	16	13	16.0	11.7	35.0		25m/50m/100m
GPA20	20	17	21.2	16.6	45.0		25m/50m/100m
GPA25	25	22	25.6	20.6	55.0		25m/50m/100m
GPA28	28	23	28.4	22.8	60.0		25m/50m/100m
GPA30	30	28	31.6	25.8	65.0		25m/50m/100m
GPA32	32	29	34.5	28.6	80.0		25m/50m/100m
GPA40	40	36	42.4	35.0	100.0		25m
GPA50	50	48	54.3	45.6	120.0		25m

Part number example: To order quote part number & reel length, e.g. GPA16/50M.

Mechanical properties

Test type	Standard	Requirement	Result
Crush strength	IEC61386-1	<25% crush >90% recovery	>125N
Tensile strength	IEC61386-1	Fitting pull off (Hinged fitting)	100N
Impact strength @ 23 °C	IEC61386-1	No cracks <20% deformation min value	>20J
Impact strength @ -5 °C	IEC61386-1	No cracks <20% deformation min value	>6J

Thermal properties

Test type	Standard	Requirement	Result
Minimum Temperature		Permanent Use - Static	-5C
Maximum Temperature		Permanent Use	90C
Short Term Temperature		Temporary Use	105 °C

Flammability

Test type	Standard	Requirement	Result
Flammability	UL94	Vertical (V0, V2) or Horizontal (HB)	HB
Flammability	IEC 61386-1	1Kw Burner @ Vertical burn	Pass

Toxicity

Test type	Standard	Requirement	Result
Halogen free	-	<0.5%	Pass
Phosphorus free	-	<0.5%	Pass
Sulphur free	-	<0.5%	Pass

Pre-test conditions

Duration	Standard	Temperature	Relative humidity
168 hours	BS EN IEC61386	23 °C	50%