

Type CTPA

Lightweight - General purpose conduit



Very flexible light weight, Nylon (PA 6), general purpose conduit.

Suitable for applications with lower risk of mechanical stress where tight bend radii may be required.

Certifications / Standards:



Features & Benefits:

- Light weight - General purpose conduit
- High flexibility and fatigue life
- High abrasion, impact and shock resistance
- Able to withstand extremes of temperatures
- Resistant to automotive oils and solvents
- Self-extinguishing, low smoke and toxicity
- Halogen free
- Very high UV resistance
- Available in black or Orange (RAL 2003)

Applications:

- Interior harnesses or areas with lower risk of mechanical stress
- Tight bend radii
- Frequent dynamic movement

Temperature range:

- Static applications: -40 °C to +120 °C
- Dynamic applications: -5 °C to +120 °C
- Short term: +150 °C

UV Resistance:

- Black - Very high
- Orange - High

Material:

- Polyamide (Nylon) PA 6
- Heat and UV stabilised

Ingress protection:

- For use with all hinged and sealed fittings in the Harnessflex range
- IP40 - Hinged fittings (NC slit IP40 only)
- IP68 (10 bar 30 mins) - Sealed fittings
- IP69 - Sealed fittings

Conforms to:

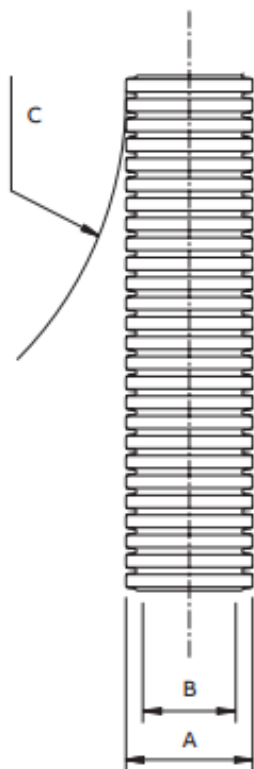
- CE Mark to the Low Voltage Directive
- RoHS compliant to 2011/65/EU
- End of Life Vehicle Directive (ELV) EU200/53/EC

Fire performance:

- IEC 61386-1 - Pass
- UL94 - HB
- FMVSS3042 - 10 mm/min

Chemical resistance:

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



Type CTPA conduit - Part numbers and dimensions

Part No.	Conduit size		Dimensions (mm)		
	NC	NW	Outside Dia. (A)	Inside Dia. (B)	Bend radii (C)
CTPA08	8	7.5	10.0	6.5	10.0
CTPA10	10	8.5	11.5	8.7	15.0
CTPA12	12	10	13.0	10.1	20.0
CTPA16	16	13	16.0	11.8	35.0
CTPA20	20	17	21.2	16.9	45.0
CTPA25	25	22	25.6	21.3	45.0
CTPA28	28	23	28.5	23.1	45.0
CTPA32	32	29	34.5	28.8	55.0
CTPA40	40	36	42.5	35.0	65.0
CTPA50	50	48	54.5	46.0	90.0

Part number example: To order quote part number & reel length, e.g. CTPA08/100M. For slit conduit options add -S to part number, e.g. CTPA08-S/100M. Colours available: Black RAL 9001 / Orange RAL 2003 (Other colour options available, subject strictly to MOQ. For colours other than standard Black also add colour, i.e. /OR for Orange conduit, e.g. CTPA08/OR/100M.

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
Dynamic bend radius @ -5 °C	IEC61386-23	5000 cycles minimum	4 x OD
Cold bend @ -40 °C	NFR13-903	2 x OD	Pass

Thermal 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
Dynamic bend radius @ -5 °C	IEC61386-23	5000 cycles minimum	4 x OD
Cold bend @ -40 °C	NFR13-903	2 x OD	Pass

Flammability

Test type	Standard	Requirement	Result
Oxygen index	ISO 4589-2	% Oxygen to support combustion	23%
Glow wire	UL94	Vertical (V0, V2) or Horizontal (HB)	HB
Flammability	IEC 61386-1	1Kw Burner @ 45 ° vertical burn	Pass
Flammability	FMVSS3042	<100mm/min	Pass (10mm/min)

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%