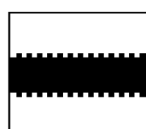
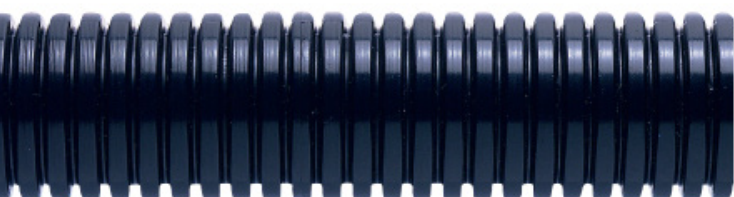


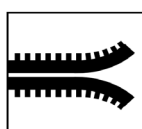
Type CTPA

Lightweight - Extra flexible conduit

Harnessflex
SPECIALIST CONDUIT SYSTEMS



Solid



Slit

Features & benefits:

- Lightweight - General purpose conduit
- High flexibility & fatigue life
- High abrasion, impact and shock resistance
- Able to withstand automotive oils and solvents
- Self-extinguishing, low smoke toxicity and halogen Free
- Very high UV resistance
- Available in black and orange

Applications:

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

Temperature range:

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

UV Resistance:

- Very high (Black)
- High (Orange)

Extra flexible lightweight nylon (PA6) conduit is a general-purpose conduit suitable for electrical loom applications.

Certifications / Standards:

(Refer to tables for certifications details)



Material / Materials / Finishes:

- 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 (CTPA Slit IP40 only)
- IP68 (10 bar 30 mins) - Sealed fittings
- IP69 - Sealed fittings

Conforms to:

- CE marked to Low Voltage Directive 2014/35/EU
- RoHS Compliant to 2011/65/EU
- Conforms with end of life vehicle directive (ELV) EU200/53/EC
- FMVSS302

Fire performance:

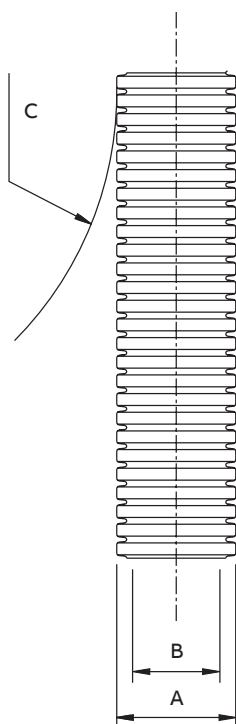
Test standard	Performance rating
IEC 61386-1	Pass
UL94	HB
FMVSS302	10 mm/min

Degree of mechanical protection:

- High flexibility & fatigue life

Chemical resistance:

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



Type CTPA Conduit – Part numbers and dimensions

Solid Part No.	Slit Part No.	Conduit size		Dimensions (mm)			Reel length (m)
		(NC)	(NW)	Outside Dia. (A)	Inside Dia. (B)	Bend radii (C)	
CTPA08	CTPA08-S	8	7.5	10.05	6.60	10.0	100
CTPA10	CTPA10-S	10	8.5	11.60	8.20	15.0	100
CTPA12	CTPA12-S	12	10	13.10	10.00	20.0	100
CTPA16	CTPA16-S	16	13	16.05	11.70	35.0	100
CTPA20	CTPA20-S	20	17	21.20	16.60	45.0	50
CTPA25	CTPA25-S	25	22	25.60	20.60	45.0	50
CTPA28	CTPA28-S	28	23	28.35	22.80	45.0	50
CTPA32	CTPA32-S	32	29	34.50	28.60	55.0	50
CTPA40	CTPA40-S	40	36	42.40	35.00	65.0	25
CTPA50	CTPA50-S	50	48	54.30	46.50	90.0	25

Part number example: To order quote part number & reel length, e.g. CTPA06/100m. For slit conduit options add -S to part number, e.g. NC06-S/100m.

Colours available: Black ● RAL 9005 / 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. CTPA06/OR/100m.

Mechanical properties

Test type	Standard	Requirement	Status
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 @ -15°C	IEC61386-1	No cracks <20% deformation min value	>6J
Dynamic bend radius @ -15 °C	IEC61386-23	5,000 cycles minimum	4xOD
Cold bend @ -40°C	NFR13-903	2xOD	Pass

Thermal properties

Test type	Standard	Requirement	Value
Minimum temperature	–	Permanent use static	-40°C
Minimum temperature	IEC 61386-23	Dynamic Use (5000 cycles @ minimum bend radius @ 40 reverse bends / minute)	-15°C
Max temperature	–	Permanent use	120°C
Max short term temperature	–	Permanent use	150°C
Max short term temperature	–	Permanent use	175°C

Flammability

Test type	Standard	Requirement	Result	Value
Flammability	UL94	Vertical (V0,V2) or Horizontal (HB)	HB	–
Flammability	BS EN IEC 61386-1	1Kw Burner @ 45° vertical burn	Pass	Pass/Fail
Flammability	FMVSS3042	≤100mm/min	10	mm/min

Toxicity

Test type	Standard	Requirement	Result	Value
Halogen free	–	<0.5%	Pass	Pass/Fail
Phosphorous free	–	<0.5%	Pass	Pass/Fail
Sulphur free	–	<0.5%	Pass	Pass/Fail

Pre-test conditions

Duration	Standard	Temperature	Relative humidity
168 (hrs)	BS EN IEC 61386-1	23°C	50%

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