

Braided Hose

# FITCOFLEX® -I-PA12

Mechanical, self-extinguishing braided hose made of polyamide 6.6 with high expansion rate.

**Application:**

Excellent mechanical protection and resistance of cables and pipes against chemical and physical conditions in the automotive environment.

**Operation temperature:**

-55°C up to +125°C

**Standard color:** black

Description	Recommended range of application [mm]	
	(∅ min)	(∅ max)
FITCOFLEX-I-PA12 3	2	7
FITCOFLEX-I-PA12 5	3	8
FITCOFLEX-I-PA12 8	6	10
FITCOFLEX-I-PA12 10	8	14
FITCOFLEX-I-PA12 14	12	16
FITCOFLEX-I-PA12 20	12	25
FITCOFLEX-I-PA12 22	20	35
FITCOFLEX-I-PA12 24	22	35
FITCOFLEX-I-PA12 30	28	40
FITCOFLEX-I-PA12 40	38	50
FITCOFLEX-I-PA12 50	48	55

Further Sizes on request

**Properties:**

- Monofil: ∅ 0,22mm; Material: Polyamide 6.6
- Self-extinguishing (DIN 75200 / FMVSS 302)
- Excellent mechanical protection
- Fire class (DIN 45545-2)
- Extremely high expansion, low weight, high flexibility
- Very good fluid resistance
- 100% recyclable

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## Packaging options:

Bulk material on cardboard spools, hot cut lengths in boxes

## Test Method:

Properties:	Testing	Value
Abrasion resistance	LV 312-3 (ISO 6722) PSA 9645870999E	≥ 15.000 cycles (class F) ≥ 7.000 cycles (class 4)
Flammability	FMVSS 302 (DIN 75200) DIN 5510-2  UL94 V	Self-extinguishing (Category B) Requirement R22 -> HL2 Requirement R23 -> HL2 Class: V2
Shrinking	ISO 6722	≤ 4%
Impact Performance	PSA D421245 LV 312-3	No damages (C/200/50/-30°C) No damages (700/1200g bei -40°C)
Smoke-gas Toxicity	NF F 16-101 NF F 16-102/STM-S-001 DIN EN 45545-2 (NF X 70-100)	F2 0,66; Hazard Level HL3 -> R23 Hazard Level HL3 -> R22
Oxygen Index	NF F 16-101/NF F 16-102/STM-S-001 DIN EN 45545-2 (EN ISO 5659-2)	I3 28%; Hazard Level HL2 -> R22 Hazard Level HL2 -> R23
Hydrolysis Resistance	GME 00053	Fulfilled
Thermal Aging	LV312-2	Fulfilled (240 h at 150°C) Fulfilled (3.000 h at 125°C)
Hot water jet test	LV312-3	Fulfilled (No cracks or damages)
Fogging	VW 50180	Fulfilled (≤ 2mg)
Emission	VW 50180	Fulfilled (≤ 50µg C/G)
Smoke Density	DIN EN 45545-2 (EN ISO 4589-2)	191; Hazard Level HL3 -> R22 Hazard Level HL3 -> R23

## Working advice:

After cutting with scissors free ends of tubing tend to fray. The tube ends should be rarely exposed during the setting up and be fixed afterwards.

- a) Fixing of the endings with heat shrinking tubing (possibly gluten coated).
- b) Fixing of the endings with adhesive tape.
- c) Harden with lace.
- d) Cutting of braid with soldering gun gaunger or hot cut machine. This way cloth fiber melt and will not split anymore. Right after cutting we recommend to press the tube ending in a right angle against a cold surface to drift the tube endings. This eases the later induction of cable bundles a lot.

TIP: When working with long lengths you should fix the top of braid and the cable end with tape.

Put over the braid and push it up to the beginning of the cable bundle, so the former inside of the tube is turned to the outside.