



Rail approved polyamide conduit.

Key features.

- Medium-wall and flexible corrugated conduit made of specially modified polyamide (PA 6)
- Free of halogen, phosphorus and cadmium
- I2F2 according to NF F 16-101 standard
- f1 according to UL746C
- R22 and R23 for HL1, HL2 according to EN 45545-2:2013
- Heat resistant and non-flame propagator
- General use for the insulating and mechanical protection of cables in the electrical installation of machinery and industrial equipment according to EN 60204-1 Standard (Safety of machinery) and in railway industry



Part number	Colour	Conduit size (mm)	Outside dia. (mm)	Inside dia. (mm)	Min. inside bend radius (mm)	Pack quantity
VOT-16G	Grey	16	15.8	12.3	35	50
VOT-25G	Grey	25	28.5	22.8	60	50
VOT-10N	Black	10	10.0	6.4	15	50
VOT-12N	Black	12	13	9.8	25	50
VOT-16N	Black	16	15.8	12.3	35	50
VOT-20N	Black	20	21.2	17	50	50
VOT-25N	Black	25	28.5	22.8	60	50
VOT-32N	Black	32	34.5	28.5	70	50
VOT-40N	Black	40	42.5	36.6	85	30
VOT-50N	Black	50	54.5	47.6	100	30

Specification.

Material:
Polyamide (PA 6)
Free of halogen, phosphorus and cadmium. Self-extinguishing

Approvals:
UL Approved - E225913

Certifications	
	CE
	RoHS compliant
	SNCF (Société Nationale des Chemins de Fer) homologated
	Underwriters Laboratories (UL) (except DN70 and DN95)
	DEUTSCHE BAHN DIN 5510:2 S4, SR2, ST2
	RATP (Régie Autonome des Transports Parisiens) homologated
	London Underground homologated
	UV f1 according to UL746C
	TABOR Polish laboratory for Rail Vehicles certified (PN-K-02511:2000)
	EN 45545-2:2013 R22 and R23 for HL1, HL2
	Bombardier SMP 800
	NFPA 130:2014

Test	Classification	Standard Values	Real Values	Standard
1 Compression Force	1 Very light	125 N	>200 N	EN 61386-1/23 CEI 61386-1/23
2 Impact	3 Medium	2 J	2 J	
3 Lower temperature range	4	-25°C	-40°C	
4 Upper temperature range	2	+90°C	+120°C (****)	
5 Resistance to bending	4 Flexible	5.000 flex.	> 5.000 flex.	
6 Electrical characteristics	0	Not declared	Not declared	
7 Protection against ingress of solids	6 Dust tight	-----	IP 6X	
8 Protection against ingress of water **	6 Protected against powerful water jets	-----	IP X6	
	7 Protected against the effects of temporary immersion in water	-----	IP X7	
9 Resistance against corrosion	- -----	----	-----	
10 Tensile strength ***	2 Light	250 N	>300 N	
11 Flame propagation	1 Not flame propagator	-----	-----	
12 Suspended load capacity	- Not applying	-----	-----	
Protection against ingress of water **	8 Protected against the similar effects of a 20 m water immersion	-----	IPX8	EN 60529 IEC 529

(*) Tested at the lower temperature range (at 2031°C The real value is 12J)

(**) Tested with ORJ O-ring and PLJ Sealing washer

(***) Tested with Nylofix plus connector

(****) Static test. in dynamic test: +105°

Other characteristics	Units	Value	Test
Mechanical Characteristics (Conditioned)	Flexions	>80.000	Interflex
Continuous flexing test (DN17)			
Toxicity			
Halogen free			
RoHS compliant	-	-	UNE EN 50267
Flammability Characteristics			
Glow wire	°C	960	CEI 60695
Oxygen index	%	≥38	UNE EN ISO 4589
Flammability	-	V0	UL 94
		I2F2	NF F 16-101
Chemical-physical Characteristics			
Resistance to fuel, mineral oils, greases and diluted bases			Good