



Vitax™

FLEXIBLE FLUOROELASTOMER CABLES AND CABLE ASSEMBLIES

AXON' interconnect group together with ADDIX expertise bring elastomeric solutions for cables and assemblies.



Introduction

AXON' present their new range of cables - VITAX™ using Fluoroelastomer (FKM) jackets. VITAX™ cables will offer high flexibility, high resistance to aggressive chemical environments and high temperature performance in conditions up to 230°C.

Applications

- Military / Aerospace
- Industrial / Automotive (sensors)
- Offshore, ...



A complete solution from cables to harnesses

AXON' CABLE is a specialist in the design, development and manufacture of cables and harnesses for advanced electronic applications. AXON' CABLE have added to its product range with FLUOROELASTOMER (FKM) jacketed cables including wires, pairs, coaxials, composite cables with high EMI protection when needed.

AXON' CABLE includes the production of the cable conductors which offers a choice of many solutions with various materials like silver plated or nickel plated copper conductors as well as pure nickel or special alloys.

AXON' CABLE offers cable jacketed with fluoroelastomer materials which are well known for their excellent resistance to heat, fuel and chemicals as well as their exceptional flexibility. Cables are extruded in lengths of 50 Mts. approximatively, cured in Steam Phase and post-cured to optimise the mechanical properties.

AXON' CABLE is able to manufacture custom assemblies : we have dedicated production departments specialising in high tech assemblies. ADDIX, the elastomeric subsidiary of AXON' CABLE have developed dedicated processes for moulding or overmoulding at the rear of backshells or connectors - e.g. FKM moulded transitions for multibranching harnesses. The use of FKM guarantees the integrity of the seal, high temperature performance, fluid resistance and excellent harness flexibility.

Technical data

DATA	UNIT	MINIMUM VALUE	TYPICAL VALUE	MAXIMUM VALUE
DIAMETER	mm	2	5/6	10.0
THICKNESS	mm	0.6	0.7	1.0
TOLERANCE	mm	± 0.2	± 0.3	± 0.5
NOM. CONCENTRICITY	%	70	70	70
STANDARD COLOUR			BLACK	

General properties

VITAX™ jacketed cables are custom designed to meet exactly the application requirements such as :

- Good flexibility, flexlife with high temperature resistance,
- Good resistance to torsion,
- Small bend radius,
- Very high resistance to oil and fluids,
- Good abrasion resistance,
- Best EMI protection possible.

VITAX™ properties

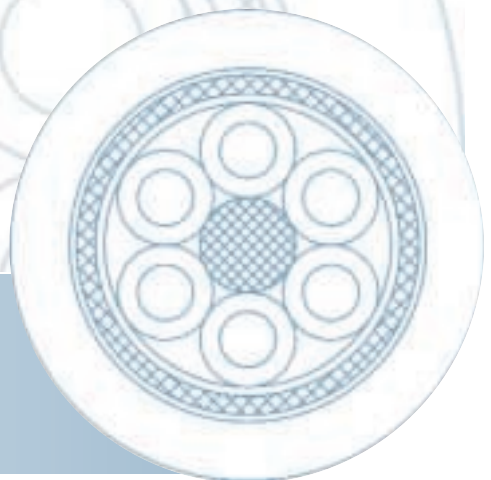
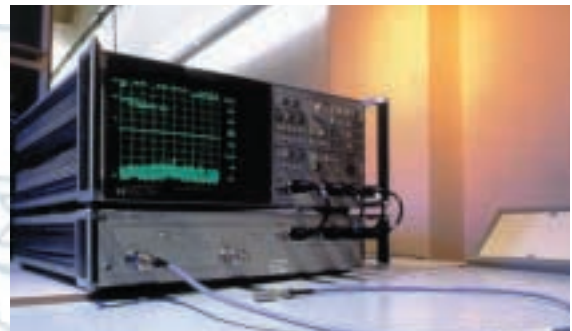
	UNIT	PHYSICAL DATA
MAX. TENSILE STRENGTH	N/mm ²	15
MAX. ELONGATION	%	300
RESISTANCE TO HEAT	°C	+ 230
RESISTANCE TO COLD	°C	- 15
NOM. HARDNESS	ShA	60
ELECTRICAL RESISTIVITY	Ω - cm	1.7.109
ELASTICITY		Good
TEAR STRENGTH RESISTANCE		Average
OIL AND FUEL RESISTANCE		Excellent



Quality

THE AXON' CABLE group Quality System is based on ISO 9000 standards.

ADDIX has been ISO 9002 certified by the AFAQ organisation and has numerous aeronautical, medical and UL compounds approvals.



EXAMPLE OF CABLE DESIGN

Electrical bundle constituted of one or several elements (wires or coaxes) as below :
 Multistranded annealed silver plated copper (+200°C), nickel plated copper conductor (+230°C),
 or high conductivity & high strength silver plated copper alloy conductor (+200°C) • PTFE insulation •
 Filler • Optimised O/A shielding silver plated copper, nickel plated copper conductor, or high conductivity
 and high strength silver plated copper alloy conductor • VITAX™ jacket



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-  EQUIPMENT WIRES
-  COAXIAL CABLES
-  FLAT CABLES
-  COMPOSITE CABLES
-  HARNESSES
-  SPECIAL CABLES

